

Region 6 - Enforcement & Compliance Assurance Division

INSPECTION REPORT

Inspection Date(s):	August 30, 2023	
Media Program:	Water	
Regulatory Program(s)	CWA	
Company Name:	City of Bloomfield	
Facility Name:	Bloomfield Wastewater Treatment Plant	
Facility Physical Location:	1176 S. Church Street	
(city, state, zip code)	Bloomfield, New Mexico 87413	
Mailing address:	915 N. 1 st St.	
(city, state, zip code)	Bloomfield, New Mexico	
County/Parish:	San Juan	
Facility Phone Number	505-516-9416	
Facility Contact:	David Sonnenberg	Water Reclamation Superintendent
	dsonnenberg@bloomfieldnm.com	
FRS Number:	11039938930	
Identification/Permit Number:	NM0020770	
Media Identifier Number:	N/A	
NAICS:	221320	
SIC:	4952	
Personnel participating in inspection:		
David Sonnenberg	City of Bloomfield	Water Reclamation Superintendent
David Esparza, P.E.	USEPA/R6-ECDWM	Environmental Engineer
EPA Lead Inspector Signature/Date		
	David Esparza	Date
Supervisor Signature/Date		
	Roberto Bernier	Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspector David Esparza, PE, arrived at the City of Bloomfield Wastewater Treatment Plant (WWTP) (Bloomfield) at approximately 9:00 AM on August 30, 2023, for an unannounced inspection. I met with Mr. David Sonnenberg, Water Reclamation Superintendent. I presented my credentials and informed him that this was an EPA inspection to determine the WWTP's compliance under the Clean Water Act (CWA). This CEI was conducted under the authority of the National Pollutant Discharge Elimination System (NPDES) permit program, in accordance with the CWA. The generation of this report is based on information supplied by Bloomfield representatives, observations made by the United States Environmental Protection Agency (US EPA) inspector, and records and reports maintained by the permittee (Bloomfield) and the US EPA. Before leaving the facility, an exit briefing was held with Mr. Sonnenberg, to explain areas of concern noted at the time of the inspection.

FACILITY DESCRIPTION

The WWTP is a major discharger, with a design flow of 0.9 million gallons per day (MGD), and is located at 1176 S. Church Street, Bloomfield, San Juan County New Mexico (depicted in **Aerial Image #1** below). The WWTP serves a population of approximately 7,800 residents. The WWTP is operated by staff within the Public Works Department and consists of 5 full-time equivalent (FTE) positions, inclusive of administrative support on a Monday through Friday 8-hour per day basis. On-call staff is available on an as needed basis.

The head works located at the entry to the WWTP has split channels: a manual bar screen, and a mechanical grit and solids removal system inclusive of a screw pump. These split channels converge at an aerated grit chamber, thence to three (3) sump pumps that lift the influent water to the recently constructed sequencing batch reactors (SBR) and digester basins. The previous digester basins (#1 through #4), aeration basins (#1 and #2) and south clarifier are currently offline. The previous north clarifier is projected for future toxic flow storage. The previous chlorine contact chamber (CCC) has also been replaced and/or upgraded by a newly constructed chamber. Additionally, other treatment processes within the existing WWTP are currently undergoing rehabilitation and/or upgrades (depicted in **Aerial Image #2** below).

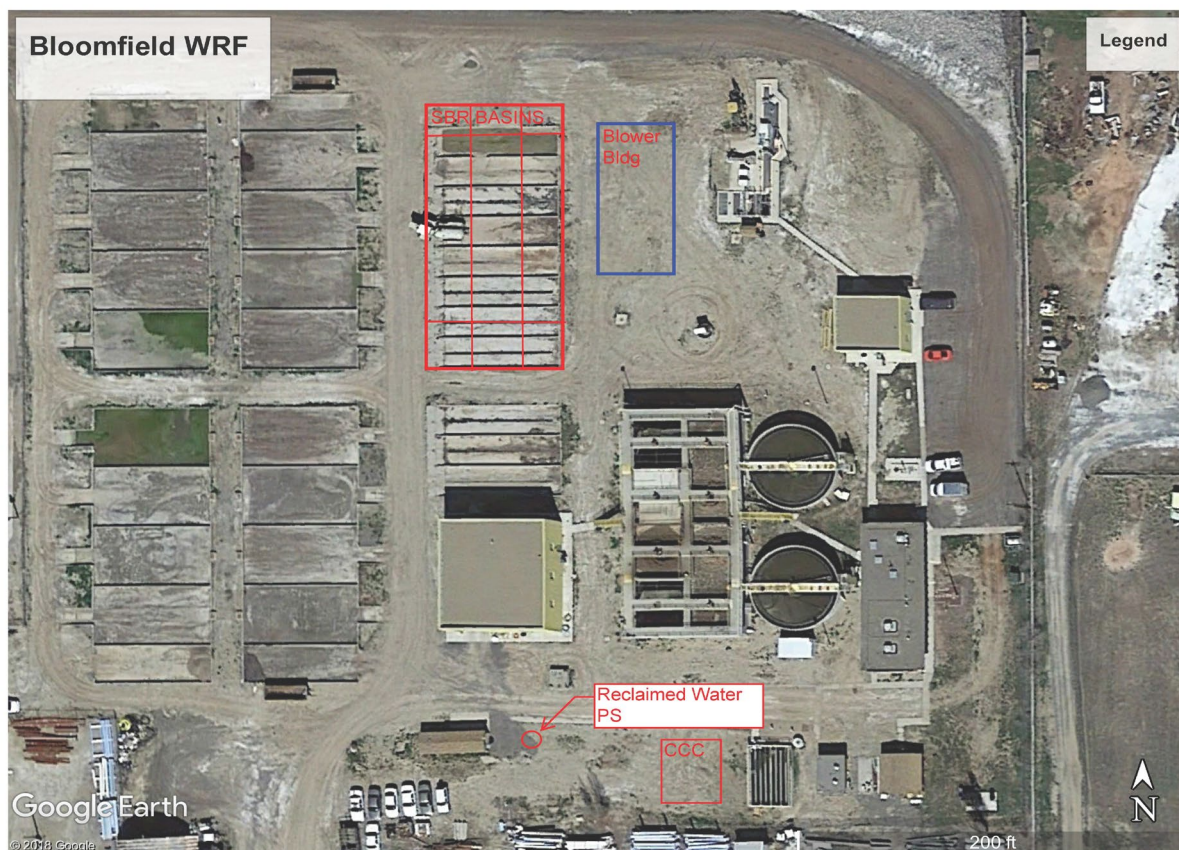
The city maintains 2 lift stations (Identified in **Table 1** below).

Table 1: City of Bloomfield Lift Stations

	Lift Station	Address
1	River	S. Side of River on Hwy 550, Take Mangum (East), to Roberts Ln. (Turn South), to bottom of Hill (on Right Side)
2	Highway 64	Take Hwy 64 West, Past Ruth Lane, On North Side of Highway in Roadrunner Carwash Lot (S.E. Corner)



Aerial Image #1 Overall view of the existing City of Bloomfield's Wastewater Treatment Plant. Aerial from Google Earth.



Aerial Image #2 Overall view of the existing City of Bloomfield’s Wastewater Treatment Plant and the upgrades denoted in “red”. Aerial from Google Earth.

Decant from the digester is returned to the head works where it mixes with the raw influent. From the digester, solids are sent to the belt press, thence to the sludge drying beds. The sludge drying beds have under drains that direct liquids back to the head of the plant. Grit removed from the head works is collected in a hopper and disposed of at the landfill. Final disposal of solids is to a surface disposal site at the WCA Bondad Landfill in Durango, Colorado (County Road 318, Durango, CO 81303 • (970) 247-8295).

Currently the only established Industrial User (IU) is Enterprise Field Services, LLC (Enterprise). Bloomfield and Enterprise entered into a wastewater treatment agreement for the disposal of their wastewater into the City’s WWTP on May 1, 2022, with an expiration date of April 30, 2025 (**Appendix 4 City of Bloomfield and Enterprise Field Services, LLC Wastewater Treatment Agreement**).

Contingency/Emergency Operations

The WWTP rehabilitation included installation of a new back-up generator in the event of an electrical power disruption or unit failure, for the entire plant and the onsite lift Station. Additionally, there is a new supervisory control and data acquisition (SCADA) and call-out system.

Section II – OBSERVATIONS

The following discussion will address current activities associated with the scheduled rehabilitation and/or new construction identified in Administrative Order (AO) Docket Number CWA-06.2019-1778.

- Aeration Basins – The two (2) existing parallel aeration basins recommended for replacement in the February 2018 Preliminary Engineering Report (PER) have been replaced with new Sequencing Batch Reactor (SBR) basins, inclusive of other improvements (**Appendix 2 Project Site Map**). These newly constructed SBR basins are denoted in red in the upper portion of **Aerial Image #2** and required the removal of several existing drying beds. Additionally, the new SBR basins will utilize air diffusion rather than the previous paddle type for mixing.
- The existing north side clarifier will be rehabilitated and used as a future toxic flow storage basin, while repair/rehabilitation to the south side clarifier was deemed not cost effective and will ultimately be demolished.
- The existing chlorine contact chamber (CCC) has been replaced with a larger CCC denoted in red in the lower center of **Aerial Image #2**.
- Bloomfield does have existing written Standard Operating Procedures (SOPs) and is in the process of updating these documents to reflect the rehabilitated WWTP and treatment processes. Furthermore, the facility is in the process of preparing written policies and procedures to address potential sanitary sewer overflow events (SSOs) and evaluating a Fats, Oils and Grease (FOG) policy.
- A Certificate of Substantial Completion was issued March 16, 2023. This certificate additionally identifies “Final Punch List” items remaining to be addressed prior to commissioning (**Appendix 5 Certificate of Substantial Completion and Final Punch List**).
- The overall housekeeping of the WWTP of the grounds and ancillary appurtenances appeared to be well maintained and in operational order.
- The WWTP did have secure perimeter fencing and lighting; thus, limiting access.

Section III – AREAS OF CONCERN

The following areas of concern (AOCs) were observed and discussed with the City of Bloomfield:

- A review of the submitted Integrated Compliance Information System (ICIS) Discharge Monitoring Reports (DMR) data for the period March 31, 2022, through April 30, 2023, indicates numerous NPDES permit excursions with respect to Chlorine, total residual (**Appendix 3 ICIS E90 Effluent Violations**).

Section IV – FOLLOW UP

The following information was received by EPA after exiting the Facility on August 30, 2023:

- An electronic copy of the Project Site Map delineating the total area footprint, delineation of processes (i.e., headworks, EQ basins, chlorination, etc.), all associated ancillary equipment, WWTP flow paths, locations/volumes of any on-site fuel storage tanks, and outfall(s).

Section IV – LIST OF APPENDICES

Appendix 1 – Photo Log – 7 photos taken 08/30/2023.

Appendix 2 – Project Site Map.

Appendix 3 – ICIS E90 Effluent Violations

Appendix 4 – City of Bloomfield and Enterprise Field Services, LLC Wastewater Treatment Agreement

Appendix 5 – Certificate of Substantial Completion and Final Punch List

Appendix 1

Photograph Log



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



View of new WWTP back-up power generator. (DSCN2635). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 2

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



View new headworks at the WWTP. (DSCN2636). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 3

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



View of rehabilitated Aerated Grit Chamber. (DSCN2637). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 4

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



View of a newly installed electric host. **Note:** the controls, inclusive of electrical supply lines are attached to the removeable railing; thus, potentially rendering it "unremovable". (DSCN2639). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 5

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



View of newly constructed Chlorine Contact Chamber looking approximately Southwest. **Note:** the fabric covering used as an effort to minimize the sun's ultra-violet (UV) rays resulting in chlorine loss. (DSCN2640). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 6

Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



Another view of newly constructed Chlorine Contact Chamber looking approximately Southeast. **Note:** the fabric covering used as an effort to minimize the sun's ultra-violet (UV) rays resulting in chlorine loss. (DSCN2641). Photographed by D. Esparza



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 7

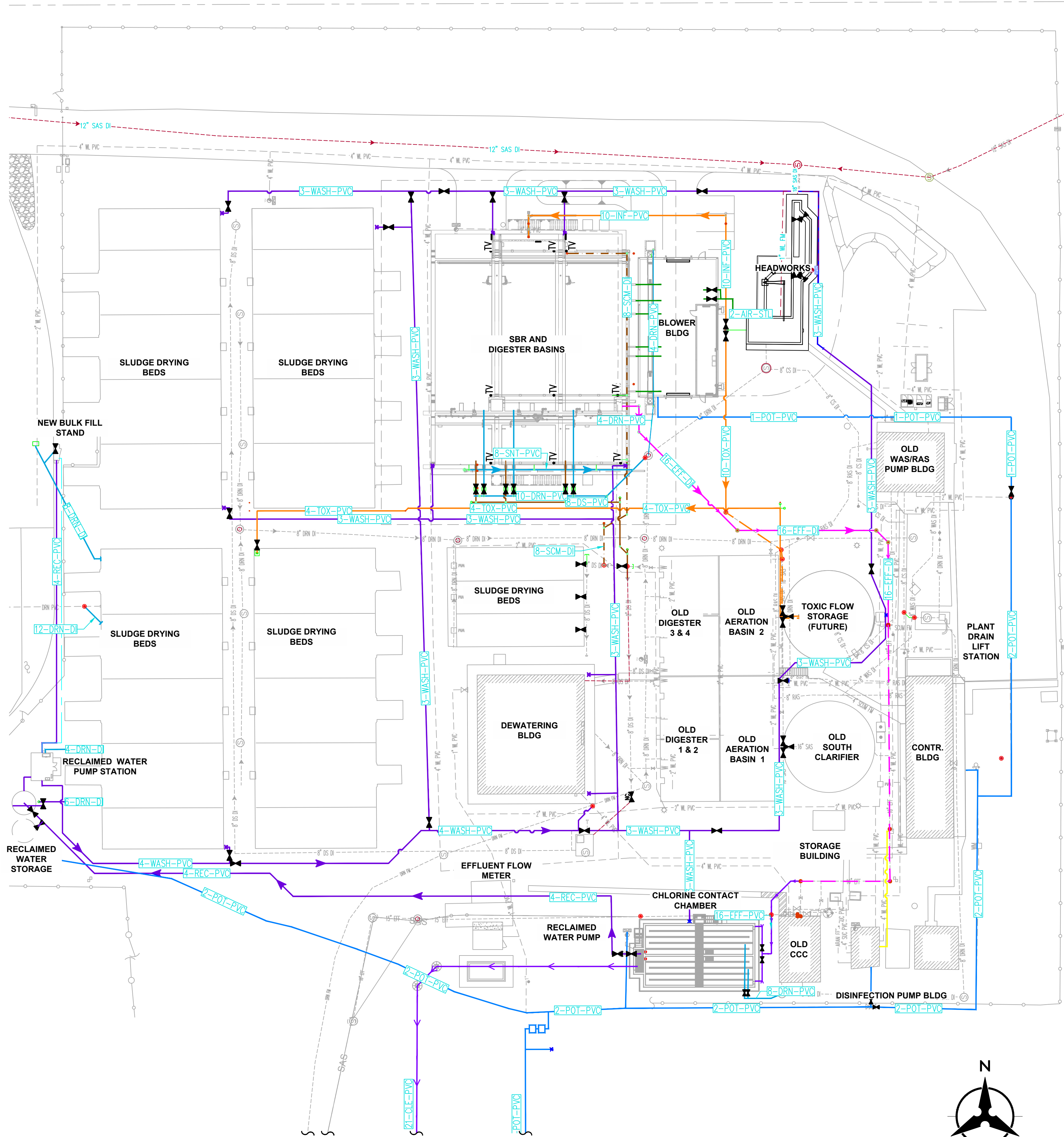
Location: Bloomfield WWTP		
City: Bloomfield	County/Parish: San Juan	State: New Mexico



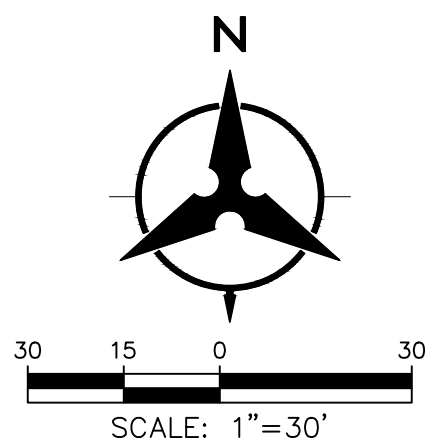
View of the new Parshall flume and the top side ultrasonic sensor. (DSCN2643). Photographed by D. Esparza

Appendix 2

Project Site Map



1 PROJECT SITE MAP
SCALE: 1" = 30'



PROCESS PIPING LEGEND		
LABEL	DESCRIPTION	
1-POT-PVC	POT	POTABLE WATER
3-WASH-PVC	WASH	WASHWATER
10-INF-PVC	INF	PLANT INFLUENT
16 (21)-EFF-DI (PVC)	EFF	PARTIALLY TREATED EFFLUENT
21-CLE-PVC	CLE	CHLORINATED / TREATED EFFLUENT
4-REC-PVC	REC	RECLAIMED WATER
2-AIR-STL	BA	BASIN AIR PIPING
4-GS-DI	GS	GRIT SLURRY
8-SCM-DI	SCM	SCUM
4-PVC-WAS	WAS	WASTE ACTIVATED SLUDGE
8-DS-PVC	DS	DIGESTED SLUDGE
4 (6) (8) (10) (12)-DRN-DI (PVC)	DRN	DRAIN LINE
8-SNT-PVC	SNT	DIGESTER SUPERNATANT
	CHEM	CHEMICAL
	SAS	EXISTING SANITARY SEWER LINE

PROCESS FLOW STREAMS ABBREVIATIONS

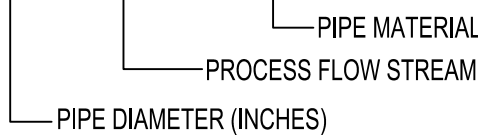
BA	BASIN AIR	OF	OVERFLOW
CLL	CHLORINE LIQUID	POT	POTABLE WATER
CLE	CHLORINATED EFFLUENT	REC	FINAL RECLAIMED WATER
DRN	DRAIN	SAS	SANITARY SEWER
EFF	PROCESS BASIN EFFLUENT	SBR	SEQUENCING BATCH REACTOR
FM	FORCE MAIN	SCM	SCUM
GCD	GRIT CLASSIFIER DECANT	TD	TANK DRAIN OR EQUIPMENT DRAIN
GCI	GRIT CLASSIFIER INFLUENT	WAS	WASTE ACTIVATED SLUDGE
INF	PROCESS BASIN INFLUENT		

PIPE MATERIALS

DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE

PIPE LABELS

16 - EFF - PVC



REVISIONS

DATE	COMMENT

DRAWN BY: LSM

REVIEWED BY: RPR

SCALE: SCALE: 1"=30'

DATE: 09.06.2023

PROJECT NO: 20190263

CITY OF BLOOMFIELD WATER
RECLAMATION FACILITY IMPROVEMENTS

PROJECT SITE MAP



www.bhinc.com
800.877.5332

Appendix 3
Review
of the
ICIS
E90 Effluent Violations

City of Bloomfield WWTP

NM0020770

Effluent

Monitoring Period End Date	Outfall	Parameter	Monitoring	Limit Unit Short Desc	Limit Value	DMR Value Qualifi er Code	DMR Value
03/31/2022	001	BOD, 5-day, percent removal	MO AV MN	%	85.	=	81.
01/31/2023	001	Chlorine, total residual	INST MAX	ug/L	19.	=	730.
03/31/2023	001	Chlorine, total residual	INST MAX	ug/L	19.	=	60.
04/30/2023	001	Chlorine, total residual	INST MAX	ug/L	19.	=	230.

Appendix 4

City of Bloomfield

and

Enterprise Field Services, LLC

Wastewater Treatment Agreement

WASTEWATER TREATMENT AGREEMENT

This Wastewater Treatment Agreement (the "Agreement") is made and entered into effective as of this 1st day of May, 2022 between Enterprise Field Services, LLC ("Enterprise"), and the City of Bloomfield, New Mexico (the "City").

ARTICLE I EFFECTIVE DATES

This Agreement is effective as of the 1st day of May, 2022 and, except as otherwise provided herein, will remain effective for a period of three years ending on April 30, 2025.

ARTICLE II DEFINITIONS

As used in this Agreement, the following terms have the following meanings (such meanings to be equally applicable to both the singular and plural forms of the terms defined):

- SECTION 2.1** "Blanco Plant" means the Blanco C & D Compressor facility/plant owned by Enterprise located at 1301 Arizona St, in Bloomfield, New Mexico.
- SECTION 2.2** "Boiler Blow Down" means the stream of wastewater from the operation of the boilers at the Blanco Plant.
- SECTION 2.3** "Cooling Tower Blow Down" means the stream of purged wastewater from the operation of the circulating cooling water system at the Blanco Plant.
- SECTION 2.4** "Domestic Wastewater" means sanitary sewage wastes collected from the restrooms, kitchens, and office areas of the Blanco Plant.
- SECTION 2.5** "Parties" means Enterprise and the City.
- SECTION 2.6** "Party" means Enterprise or the City, depending upon the context in which the term is used.
- SECTION 2.7** "Storm Water" means the water resulting from rainfall runoff from the processing and storage areas of the Blanco Plant.
- SECTION 2.8** "Wash Water" means water collected from the processing and storage areas of the Blanco Plant resulting from maintenance and cleaning activities.
- SECTION 2.9** "Wastewater" means the combined streams of all wastewater discharged from the Blanco Plant to the City Wastewater Treatment System. The

streams to be combined included Cooling Tower Blow Down, Boiler Blow Down, Domestic Wastewater, Storm Water, and Wash Water.

SECTION 2.10 "Wastewater Treatment" means the receipt, treatment, and proper discharge of treated wastewater by the City Wastewater Treatment System, in accordance with all applicable laws, regulations, and permits.

SECTION 2.11 "Wastewater Treatment System" means the piping and treatment equipment operated by the City for the receipt, treatment, and discharge of municipal and industrial wastewater.

ARTICLE III PERFORMANCE

SECTION 3.1 The City shall provide Wastewater Treatment for Enterprise's Wastewater from the Blanco Plant.

SECTION 3.2 Enterprise shall discharge Wastewater to the City in accordance with the quality limitations listed in Exhibit A, except as otherwise provided herein. Enterprise shall meet the total dissolved solids ("TDS") limit of 600 mg/l so long as such limit does not cause the City to exceed limits set by the Environmental Protection Agency ("EPA") for Publicly Owned Treatment Works ("POTW") or cause the City not to comply with the Colorado River Basin Salinity Control Act (Public Law 92-32, June 24, 1974). In the event the City no longer complies with the POTW limits or the Colorado River Basin Salinity Control Act and Enterprise's TDS discharge is 600 mg/l, the City will immediately notify Enterprise of its reasonable requirements to appropriately reduce the Enterprise TDS limit for that period of time necessary to bring the City into compliance with all relevant laws. Enterprise will be afforded a reasonable time to implement such reduction, but in no event will such time exceed the time allotted to the City to come into compliance.

SECTION 3.3 Enterprise shall provide analytical testing of Wastewater discharged to the City from the Blanco Plant, in accordance with the list of tests, and at such frequency, as shown in Exhibit A, and will bear all costs related to such analyses.

SECTION 3.4 The City, at the City Wastewater Treatment System Superintendent's discretion, will collect a 24-hour time proportional sample of the water discharged from the Blanco Plant to the Wastewater Treatment System and will analyze the water and bear all costs related to such analyses.

SECTION 3.5 Enterprise shall maintain in good working order the effluent flow meter installed by Enterprise at the Blanco Plant for use by the City in determining the quantity of Wastewater discharged to the Wastewater Treatment System. Enterprise shall provide the City with a secure real-time web-based access to flow meter readings, with historic trending, through an application of Enterprise's choice.

ARTICLE IV REPORTING

SECTION 4.1 Enterprise shall provide the results of analyses performed under Section 3.3 herein to the City within 10 days of their receipt by Enterprise. Enterprise shall report all test results to the City at the intervals described in Exhibit A.

SECTION 4.2 Enterprise shall orally report any upset, abnormal operation, emergency, or any violation of the daily maximum limitations for any pollutants listed in Exhibit A, within 24 hours. A written report will be provided to the City within five days to the City of Bloomfield Wastewater Superintendent. Further, Enterprise shall report any change in its discharge (including the introduction of any new source or significant change in the quantity or quality of existing discharge of pollutants). In no case are any significant changes permitted that will cause violation of the effluent limitations specified herein.

ARTICLE V COST REIMBURSEMENT

SECTION 5.1 Enterprise will pay industrial user rates for Wastewater Treatment. The industrial user rates mandated in the City Code of the City of Bloomfield (and as amended from time to time), require that Enterprise pay \$103.30 per month as a base rate and \$4.73 per 1,000 gallons of Wastewater discharged into the Wastewater Treatment System. Quantities of Wastewater will be measured by a flow meter installed according to Section 3.5 above.

In addition, the following charges will apply:

\$2.50 per month Capital Replacement Charge pursuant to Ordinance 475.

\$3.25 per 1,000 gallons of Wastewater for A Capital Replacement Charge pursuant to Ordinance 482.

 GK

SECTION 5.2 Enterprise and the City shall review the monthly rate being charged on an annual basis, in the event of a City-wide rate adjustment. At such time, upon review, the Parties may change the rate through written mutual agreement. If, upon review, the Parties cannot agree upon the monthly rate to be charged, either Party may terminate this Agreement to be effective on 30 days' written notice to the other Party.

ARTICLE VI DAMAGES

In the event Enterprise discharges any substance or material not permitted by the terms of this Agreement, which results in an adverse impact upon the operation of the Wastewater Treatment System, Enterprise shall promptly pay the City all actual damages incurred by the City as a direct result of said discharge.

ARTICLE VII INSPECTION, MONITORING, AND ENTRY BY THE CITY

Enterprise shall comply with the City Code of the City (including any amendments thereto that may be passed from time to time), in allowing the City to inspect and monitor Enterprise Wastewater discharge, provided that all entries by the City on Enterprise property will be limited to inspection and monitoring of Enterprise Wastewater equipment at the Blanco Plant. Due to the nature of the gas transmission business and the desire to reduce unnecessary risk to any of the City's authorized representative, all on-site inspectors must adhere to Enterprise safety procedures in effect at the Blanco Plant. Except in the event of an emergency or for routine discharge sampling, all on-site inspectors must be accompanied by an Enterprise representative.

ARTICLE VIII ATTORNEY'S FEES

In the event either Party (the "Non-Defaulting Party") incurs attorney's fees or costs to enforce the terms of this Agreement or attorney's fees, costs, fines, or penalties as a result of a third-party action due to the other Party's non-compliance with the terms of this Agreement, the Non-Defaulting Party will be paid the reasonable attorney's fees, costs, fines, and penalties incurred by the other Party.

**ARTICLE IX
ASSIGNMENT**

Neither Party may assign this Agreement without prior written consent of the other Party. Neither Party shall unreasonably withhold its consent to the assignment of the Agreement.

**ARTICLE X
GOVERNING LAW**

All provisions of this Agreement will be governed by and construed in accordance with applicable federal law and Regulations and the laws and regulations of the State of New Mexico, excluding any conflict of law, rule, or principle that might apply the laws of another jurisdiction. Each Party is responsible for abiding by all such laws and regulations applicable to its operations.

**ARTICLE XI
MISCELLANEOUS PROVISIONS**

SECTION 11.1 The Section headings contained in this Agreement are for the convenience of the Parties only and will not be interpreted as part of this Agreement.

SECTION 11.2 This Agreement may only be modified by a written instrument mutually executed by a duly authorized representative of the respective Parties.

SECTION 11.3 Waiver by one Party of the other's breach of any provision of this Agreement must be in writing and will not be deemed a waiver of any subsequent or continuing breach of such provision or of the breach of any other provision of provisions of this Agreement.

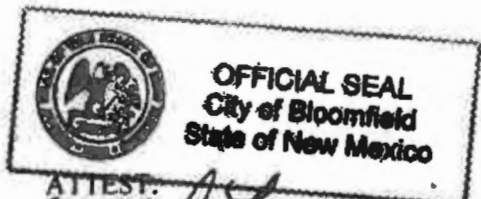
SECTION 11.4 This Agreement may be renewed or extended upon the mutual agreement of both Parties.

IN WITNESS WHEREOF, the Parties have caused this agreement to be executed in two counterparts by their duly authorized representatives effective as of the day and year first above written.

City of Bloomfield

By:

Cynthia Atencio
Mayor Cynthia Atencio



ATTEST:

Crystal Martinez-Hornberger
City Clerk, Crystal Martinez-Hornberger

ENTERPRISE FIELD SERVICES, LLC

BY: [Signature]

EXHIBIT A

ANALYTICAL TESTS TO BE PERFORMED BY ENTERPRISE ON WASTEWATER DISCHARGED TO THE CITY OF BLOOMFIELD

		PARAMETERS	
I. Analyses to be performed Monthly:		*TOTAL DISSOLVED SOLIDS	600.00 mg/l
		*See § 3.2	
II. Analyses to be performed Semi-Annually:		OIL and GREASE (Freon Ext.)	50.00 mg/l
		ETHYBENZENE	0.75 mg/l
		TOTAL XYLENES 0.62	mg/l
		CHLOROFORM	0.10 mg/l
		BIOCHEMICAL OXYGEN DEMAND (5DAY)	200.00 mg/l
		CHEMICAL OXYGEN DEMAND	500.00 mg/l
		TOTAL SUSPENDED SOLIDS	200.00 mg/l
III. Analyses to be performed Annually:		ARSENIC (As)	0.10 mg/l
		BARIUM (Ba)	1.00 mg/l
		CADMIUM (Cd)	0.01 mg/l
		CHROMIUM (Cr)	0.05 mg/l
		CYANIDE (CN)	0.20 mg/l
		FLOURIDE (F)	1.60 mg/l
		LEAD (ph)	0.05 mg/l
		TOTAL MERCURY (Hg)	0.0002 mg/l
		NITRATE (NO3as N)	10.00 mg/l
		SELENIUM (Se)	0.05 mg/l
		SILVER (Ag)	0.05 mg/l
		URANIUM (U)	5.00 mg/l
		CHLORIDE (Cl)	250.00 mg/l
		COPPER (Cu)	1.00 mg/l
		IRON (Fe)	1.00 mg/l
		MAGANESE (Mu)	0.20 mg/l
		SULFATE (SO4)	600.00 mg/l
		ZINC (Zn)	10.00 mg/l
		pH	Between 6 & 9
		ALUMINUM (Al)	5.00 mg/l
		BORON (B)	0.70 mg/l
		COBALT (Co)	0.05 mg/l
		MOLYBEDNUM (Mo)	1.00 mg/l
		NICKEL (Ni)	0.20 mg/l
		PHOSPHATES (Total)	15.00 mg/l
		PHENOL	0.05 mg/l
IV. Analyses to be performed Annually for Reporting Only		LIST OF POLLUTANTS INCLUDED IN SECTION 20.6.4.900.J.1 NMAC (excluding those parameters already listed in Part III above).	

js

Appendix 5

Certificate of Substantial Completion and Final Punch List

CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner: City of Bloomfield	Owner's Contract No.: 21-0104
Contractor: Integrated Water Services, Inc.	Contractor's Project No.: 479
Engineer: Bohannon Huston Inc.	Engineer's Project No.: 20190263
Project: Water Reclamation Facility Improvements	Contract Name: Water Reclamation Facility Improvements

This final Certificate of Substantial Completion applies to:

☒ All Work ☐ The following specified portions of the Work:

March 16, 2023
**Date of Substantial
Completion**

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor, and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Work or portion thereof designated above is hereby established, subject to the provisions of the Contract pertaining to Substantial Completion. The date of Substantial Completion in the final Certificate of Substantial Completion marks the commencement of the contractual correction period and applicable warranties required by the Contract.

A punch list of items to be completed or corrected is attached to this Certificate. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract.

The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance, and warranties upon Owner's use or occupancy of the Work shall be as provided in the Contract, except as amended as follows: *[Note: Amendments of contractual responsibilities recorded in this Certificate should be the product of mutual agreement of Owner and Contractor; see Paragraph 15.03.D of the General Conditions.]*

Amendments to Owner's
responsibilities:

☒ None
☐ As follows

Amendments to
Contractor's responsibilities:

☒ None
☐ As follows:

The following documents are attached to and made a part of this Certificate: *[punch list; others]*
Final Punchlist

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract.

EXECUTED BY ENGINEER:

RECEIVED:

RECEIVED:

By: [Signature]
(Authorized signature)

By: [Signature]
Owner (Authorized Signature)

By: _____
Contractor (Authorized Signature)

Title: Engineer of Record

Title: Superintendent

Title: _____

Date: March 16, 2023

Date: March 16, 2023

Date: _____

Approved by Funding Agency (if applicable)

By: _____

Title: _____

Date: _____

FINAL PUNCH LIST

Project Bloomfield WRF Improvements

Location Bloomfield, NM

Date March 16, 2023

Inspection was conducted at above project by Rob Richardson at 10:00 a.m. o'clock this date.

REPRESENTATION

CONTRACTOR-OWNER

Contractor: Integrated Water Services – Christian Baumgart
Owner: City of Bloomfield – Dave Sonnenberg

ENGINEER-ARCHITECT

Project Manager: Rob Richardson
Engineer of Record: Rob Richardson
Resident Project Representative: Rick Mobley

The following items are to be corrected or completed to comply with the contract documents:

	Type of Inspection	Check XX	Final	1 Yr. Guar.	Guar.
Completed	No.	ITEM			
	1	Closeout Documents - Consent of Surety to Final Payment, others			
	2	Release of Liens (including subs and suppliers)			
	3	Record Drawings			
	4	O&M Manuals – addendums based on performance testing – Xylem, HVAC (Anchorbuilt), ?? Item 18 from electrical punchlist - Remove grit pump timelock from main control panel O and M and drawings and resubmit control panel O and M and drawings			
	5	Locks and operation of Blower building entry handles not operating correctly.			
	6	Certificate of Occupancy – Blower building			
	7	Hand over full spare parts inventory to City			
	8	Complete HMI workstation construction as shown on DWG A-5			
	9	Close penetration on east wall of old generator room DWG E-3 note 1; Either match existing or provide window and framed siding as discussed as an alternate option.			
	10	Inspect and re-caulk interior and exteriors blower piping penetrations			
	11	Complete concrete collars at valve boxes plant wide			
	12	Seal leaks on sidewalls at CCC			
	13	Install sampler access in grating at discharge box at CCC			
	14	Replace damaged grating at center stair at CCC			
	15	CCC inlet valves are difficult to close completely.			
	16	Final grading and cleanup plant wide			
	17	NE drying bed leak has not been addressed. Need to look at the bed when it is empty			
	18	Apply touch up paint at grit pump			

19	Install 2 bollards at reclaimed water booster station to protect gate valves
20	Clean and recoat top seam of LP5 electrical box at reclaimed booster station
21	Configure network link to power meter accessible from SCADA
22	Extend cable for pitless pump, underwater splice, check valve installation
23	Replace WAS gallery grating so holes line up with the valves. Install valve name tags on grating.
24	Return manhole cover on manhole between north bank of dry beds to center position and clean out dirt in manhole.
25	Service generator including air filter replacement
26	Calibrate generator fuel readings (gauge vs electronic) so they accurately match
27	O2 sensor at Digester #3 – Replace sensor and cable
28	Adjust lazy breaker handles to match indicator boxes on the MCC; McDade to provide justification as to why this can't be done which is contrary to what the O and M Manual says
29	Replace decanter pivot point bearing and tube swivel grease zircs with stainless steel
30	Install permanent cable holders at mixer masts
31	Replace davit crane adapter box with aluminum version
32	Restore power to Dry bed outlets
33	Resolve rusty housings on numerous mixer and pump bodies
34	Seal leaks around air pipes on east SBR wall
35	Install site drain lift station piping connection to headworks per DWG C9 note 37.
36	Install name placards on all blowers and discharge piping in the blower building. SBR 1-3 and DIG 1,2,4 (Spare),3 to match HMI screen names
37	Install valves tags on all valves in blower building to match numbering on HMI screens
38	SBR #1 preact manual purge valve needs to be replaced; handle was lost and then handle shaft was damaged due to being opened and closed with pliers
39	Digester decanters not level and vibrating, loose bolts, alignments in drive shafts; Digester #1 has been resolved. Need to take digesters 2 and 3 out of service to resolve.
40	Replace decanter pivot point bearing and tube swivel grease zircs with stainless steel. Perform with note 39 when digesters can be taken out of service one at a time
41	Tracing wires getting caught on valve handles when operating.
42	Fencing near drive thru gate and the gate itself needs additional dirt to prevent animals from being able to duck under fence for plant entry.
43	Verify SBR #1 blower oil leak repair is not leaking again. Low oil level as of 3-8-2023
44	Resolve damaged pumps from influent wet well strap incident and flooding. 1 influent pump replacement b. 1 Influent pump rebuild c. 1 shallow well jet pump ; refer to memo sent to Justin Reese and Gene Garms on March 15, 2022
45	Repair ceiling Exhaust stack roof (old generator room) that is leaking.

Distribution:

1. Project Manager
2. Contractor's Representative
3. Resident Project Representative
4. File