UNIVERSITY AREA JOINT AUTHORITY

A G E N D A
Regular Meeting – 4:00 pm - June 21, 2023

1. **Call to Order**

2. **Approval of the Minutes:** Regular Meeting- May 17, 2023 *(Page 2)*

3. **Public Comment**
   - **3.1** Other items not on the agenda

4. **Old Business**
   - **4.1** Recommendation of the Rate Subcommittee – RFP for Rate Study *(Page 37, Addt' l Page 39)*

5. **New Business**
   - **5.1** Final Design: Rhodes Lane Condominium *(Page 37)*
   - **5.2** Requisitions *(Page 37)*

6. **Reports of Officers**
   - **6.1** Financial Report *(Page 28, YTD Budget Report Page 12)*
   - **6.2** Chairman's Report
   - **6.3** Plant Superintendent's Report *(Page 29, Compost Report Page 30)*
   - **6.4** Collection Systems Superintendent's Report *(Page 31)*
   - **6.5** Consulting Engineer's Report *(Page 32)*
   - **6.6** Construction Engineer Report *(Page 34)*
   - **6.7** Executive Directors Report *(Page 36)*

7. **Other Business**

8. **Adjournment**

MINUTES
UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

Regular Meeting – May 17, 2023

1. Call to Order

Mr. Lapinski, Chairman, called the regular meeting to order at 4:00 p.m., Wednesday, May 17, 2023. The meeting was held in the Board Room in the office of the Authority with the following in attendance in person: Messrs. Lapinski, Ebaugh, Auman, Guss, Kunkle, Daubert, Miles and Glebe; Cory Miller, Executive Director; Jason Brown, Assistant Executive Director; Sierra Weight, Administrative Assistant; Daren Brown, Collection System Superintendent; Andy Breon, Plant Superintendent; Jason Wert, Rettew; Michele Aukerman, Rettew; C-NET; Ben Burns, HRG Consulting Engineer; Jeff Garrigan, HRG Consulting Engineer; Ted Onufrak, Centre County Refuse & Recycling; Shelly Mato, Center Region Planning Agency; Harlan Glebe. The following were in attendance via Zoom: Messrs. Nucciarone; Sam Robbins, State College Borough; Mark Boeckel, Center Region Planning Agency; Ben Ried, Mette Evans & Woodside; Karli Keisling, PFM; Scott Shearer, PFM; Brian McCall, Maher Duessel; Lynsie Deibert, Maher Duessel.

2. Reading of the Minutes

UAJA Regular Meeting – April 19, 2023

UAJA Meeting Minutes Approved

A motion was made by Mr. Daubert, second by Mr. Ebaugh to approve the meeting minutes of the UAJA meeting held on April 19, 2023. The motion passed unanimously.

3. Public Comment

3.1 Other items not on the agenda

None.

4. Old Business

None.

5. New Business

5.1 2022 Audit

Included in the packet are the following:

Draft Communication to Those Charged with Governance letter
Draft Financial Statements
Draft Management letter

Board Treasurer, Jeff Nucciarone, Asst. Treasurer, Mark Kunkle, Board Member, Matt Auman, Cory Miller, and Jason Brown met with Maher Duessel (via Zoom) on May 8th to review and comment on the 2022 Draft Audit. Brian McCall, a partner in Maher Duessel, will attend the meeting to review the 2022 Audit with the Board.

Recommendation: Approve the 2022 Audit.

2022 Audit Approved

A motion was made by Mr. Guss, second by Mr. Auman to accept the 2022 Audit as presented. The motion passed unanimously.

5.2 Organics Collection Pilot Program Presentation

Ted Onufrak, Executive Director of the Centre County Recycling and Refuse Authority, will give a brief presentation on implementing a pilot organics collection project in the Centre Region and the challenges facing the long-term development of an organics collection program to complement UAJA's Biosolids Project.

5.3 Resolution 23-01 – Borrowing Resolution & Resolution 23-02 – Letter of Credit Resolution

Included in the packet is Resolution 23-01 and Resolution 23-02. The Resolution is required by First Citizens Community Bank to finalize the letter of credit process for the compost facility. The Borrowing Resolution authorizes Cory Miller and/or Jason Brown as signatories.

Recommendation: Approve Resolution 23-01 and Resolution 23-02.

Resolution 23-01 & Resolution 23-02 Approved

A motion was made by Mr. Miles, second by Mr. Nucciarone to approve Resolution 23-01 – Borrowing Resolution. A second motion was then made by Mr. Ebaugh, second by Mr. Kunkle to approve Resolution 23-02 – Letter of Credit Resolution. Both motions passed unanimously.

5.4 Greenbriar Special Purpose Tapping Fee

A Special Purpose Tapping Fee for the Greenbriar Sewer Project has been calculated. Most of the property owners participated in the early connection offer while the project was being constructed. The Special Purpose Tapping Fee will apply to the properties that elected to not participate, as well as any empty lots in the development. The fee as determined by HRG at the time of project completion was $7,500.00 per EDU. HRG has also recommended the fee be adjusted based on the construction cost index published by the Engineering News Record. The tapping fee adjusted to 2023 is $8,692.00 per EDU.

Recommendation: Adopt the Special Purpose Tapping Fee for the Greenbriar project in the amount of $8,692.00 per Equivalent Dwelling Unit (EDU).

Greenbriar Special Purpose Tapping Fee Approved

A motion was made by Mr. Daubert, second by Mr. Guss to approve the Special Purpose Tapping Fee for the Greenbriar project in the amount of $8,692.00 per Equivalent Dwelling Unit (EDU). The motion passed unanimously.

5.5 Requisitions

BRIF #766	HRI, Inc. N. Oak Lane West Project	$2,130.00
BRIF #767	Steelcase, Inc. Office Upgrade	$581.40
BRIF #768	Morefield Communications IT System Upgrades	$2,447.61
BRIF #769	S&C Operations N. Oak Lane West Project	$12,521.25
BRIF #770	Glenn O. Hawbaker Haymarket Pump Station Project	$2,118.20
BRIF #771	Westmoreland Electrical Services Scott Road Project – Pay App. #10	$65,125.25
TOTAL BRIF		**$84,923.71**

BRIF Approved

A motion was made by Mr. Ebaugh, second by Mr. Miles to approve BRIF #766, #767, #768, #769, #770, and #771 in the amount of $84,923.71. The motion passed unanimously.

Construction Fund #082	Rettew Ozone Disinfection Project	$3,996.50
Construction Fund #083	Rettew Solids Drying Project	$23,393.34
Construction Fund #084	PSI Pumping Solutions Ozone Disinfection Project Pay App. #11 (G)	$661,562.50
Construction Fund #085	PSI Pumping Solutions Ozone Disinfection Project Pay App. #6 (E)	$6,840.00
TOTAL 2020 A CONSTRUCTION FUND		**$695,792.34**

Construction Fund Approved	A motion was made by Mr. Kunkle, second by Mr. Daubert to approve Construction Fund #082, #083, #084, and #085, in the amount of $695,792.34. The motion passed unanimously.	

Revenue Fund #196	Debt Service, Operation and Maintenance Expenses	$1,000,000.00
TOTAL REVENUE FUND		**$1,000,000.00**

Total Revenue Fund Approved	A motion was made by Mr. Ebaugh, second by Mr. Glebe to approve Revenue Fund #196, in the amount of $1,000,000.00. The motion passed unanimously.

6. Reports to Officers

6.1 Financial Report

The different cost centers of the YTD budget report for the period ending April 30, 2023, were reviewed with the Board by Jason Brown.

6.2 Chairman's Report

Mr. Lapinski questioned the status of the Rate Study Committee, to which Mr. Kunkle provided a brief update.

6.3 Plant Superintendent's Report

Compost & Septage Operations Report

The following comments are as presented to the Board in the written report prepared by Andy Breon, Plant Superintendent.

COMPOST PRODUCTION AND DISTRIBUTION

UNITS IN CU/YDS	NOV 2022	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023
PRODUCTION	856	4,045	893	718	840	655
YTD PRODUCTION	8,865	9,910	893	1,611	2,451	3,106
DISTRIBUTION	769	147	1,115	840	452	1,150
YTD DISTRIBUTION	8,620	8,767	1,115	1,955	2,407	3,557
IMMEDIATE SALE	794	1,503	1,438	1,491	1,758	1,448
CURRENTLY IN STORAGE	1,650	2,548	2,331	2,331	2,598	2,103

SEPTAGE OPERATIONS

LBS/SOLIDS

	NOV 2022	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023
CENTRE HALL- POTTER	0	0	0	0	0	0
PORT MATILDA	1,138	1,497	1,030	433	2,631	1,237
HUSTON TOWNSHIP	467	534	617	617	300	537

TOTAL GALLONS

	NOV 2022	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023
RESIDENTIAL/COMMERCIAL	17,800	2,500	3,200	5,000	5,200	13,800
PORT MATILDA	13,000	18,500	13,000	6,500	17,500	13,000
HUSTON TOWNSHIP	6,000	6,000	6,000	6,000	6,000	6,000
TOTAL FLOW	36,800	27,000	22,200	17,500	28,700	32,800

Plant Operation

The treatment plant is operating well with no exceptions. The 12-month rolling average effluent flow for April was 3.82 MGD with the average for the month being 3.80 MGD. The average monthly **influent** flow was 5.39 MGD.

Treatment units online are as follows: primary clarifiers #1, #2, #3 and #6; aeration basins #2 and #3; secondary clarifiers #1, #3, and #4; and eight tertiary filters.

DEP inspected the Compost and Septage Facilities. Everything was in order.

Reuse Water Distribution Data

	April 2023	Year to date gallons
Best Western Hotel	34,000	129,000
Centre Hills Golf	3,537,000	3,537,000
Stewart Drive	0	0
Collections Maintenance Garage	1,000	7,000
CINTAS	558,000	2,326,000
Red Line	403,000	1,800,000
Plant site	4,167,000	17,697,000
GDK Park vault	28,989,000	121,494,000
Kissinger's Pond	1,203,000	8,122,000
Elks	602,000	602,000
Total Gallons	39,494,000	155,714,000
Plant effluent temperature	58.8°	
Wetland temperature	59.7°	

Plant Maintenance

- Rebuilt the spare Booster Station Pump rotating assembly.
- Replaced the bad actuators and valves on the MF units.
- Repaired the master controls for the Reuse High Service Pumps and repaired the VFD for High Service Pump #1.
- Installed the weir brushed on the Secondary Clarifiers.
- Repaired the main power cables on Compost Dolly #3.

6.4 Collection Systems Superintendent's Report

The following comments are as presented to the Board in the written report prepared by Daren Brown, Collection System Superintendent.

Mainline Maintenance:

New Laterals – 0
Mainline Cleaning – 5,275 ft cleaned/cut with root cutter
Mainline televising – 36,065 ft televised – 201 manholes inspected
Replaced 466' of Mainline (N.Oak Project)
Replaced 162' of Laterals (N. Oak Project)
Mainline repair 151 W Chestnut (Pine Grove)
Raised 9 castings that were buried (Found when locating for GIS)

Lift Station Maintenance:

Cleaned (11) wet wells
Replaced high water float at Persia

Next Month Projects:

Mainline replacement (N.Oak)
Continue televising
Flushing mainlines
Casting adjustments on this year's paving projects

Inspection:

Final As-Builts Approved: (1) Evergreen Heights

Mainline Construction:

a. Whitehall Regional Park – Waiting on final As-Builts
b. Toftrees West (Mount Nittany Medical Center) 90% Complete

New Connections:

a.	Single-Family Residential	10	c.	Commercial	0
b.	Multi-Family Residential	0	d.	Non-Residential	0

TOTAL 10

PA One-Calls Responded to April 1 thru April 30, 2023: 500

6.5 Consulting Engineer's Report

The following comments are as presented to the Board in the written report prepared by the Consulting Engineer.

Retainer Services (001178.0693)

- Provided general consulting services.

Meeks Lane Pump Station – Act 537 Plan Special Study (R001178.0663)

- Authority staff will review the alternative pump station location near Waddle with Patton Township.

Scott Road Pump Station and Bristol Interceptor (001178.0682)

- The Electrical Contractor installed the emergency generator and is scheduling start-up with the manufacturer.
- The General Contractor installed the fence and is working to restore the site and demobilize.
- There was one application for payment submitted this month. The following table summarizes current applications for payment.

SCOTT ROAD PUMP STATION UPGRADE SUMMARY OF APPLICATIONS FOR PAYMENT					
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	Balance to Finish Plus Retainage
2021-03	--	$0.00	$515,303.23	$515,303.23	$26,850.00
2021-04	10	$62,125.25	$262,972.92	$239,637.92	$35,316.90

- Both Contractors have submitted time extension requests. A decision regarding these requests is being withheld until the work is substantially complete.

Rate Study and Tapping Fee Update – (001178.0703)

- A calculation was performed to determine the Special Purpose Part of a Tapping Fee for the Greenbriar Development.

Borough of State College Act 537 Special Study Impact Review (001178.0717)

- HRG is available to assist with further analysis, if necessary.
- Flow data is being reviewed as it is collected.

Developer Plan Reviews:

- Rhodes Lane Condominium (R001178.0722): Plan review comments were provided to the Developer's Engineer on May 1, 2023.

6.6 Construction Report

WWTP NPDES Permit – Phosphorus Study (094612027)

- Continuous in-stream monitoring of Spring Creek wrapped up at the end of October. We are compiling data for review with DEP.

Phosphorus Study Project Schedule

Milestone	Date
Complete stream monitoring and compile data	November-December 2022
Review final data with PADEP	TBD Awaiting Feedback
Conduct High Temperature/Low Flow Monitoring if needed	TBD

Ozone Disinfection for Effluent (094612023)

- The ozone generators have been delivered and set into place and the General Contractor has been installing process piping. The remaining equipment will arrive on site in the next few weeks.
- All three contractors have been notified of the exceedance of contract time. The General Contractor has been requested to provide documentation of the cause of the delay and actions taken to minimize the impacts.

Payment Requests to Date						
Contract Number	Application for Payment #	Current Payment Due	Contract Price to Date incld/CO	Total Work to Date	% Monetarily Complete	Balance of Contract Amount
2021-05 GC	11	$661,562.50	$5,448,000.00	$3,868,029.20	71.00%	$1,775,836.23
2021-06 EC	6	$6,840.00	$350,000.00	$216,550.00	61.87%	$144,277.50
2021-07 MC			$223,000.00	$194,636.41	87.28%	$38,095.41
		$668,402.50	$6,021,000.00	$4,279,215.61	71.07%	$1,741,784.39

Contract 2021-05 (PSI) has submitted Application for Payment No.11 in the amount of $661,562.50. We recommend payment in the amount of $661,562.50. The balance of this contract, including retainage, is currently more than the amount of liquidated damages that could be withheld at this point. Contract 2021-06 (PSI) has submitted Application for Payment No. 06 in the amount of $6,840.00 We recommend payment in the amount of $6,840.00. Contract 2021-07 (McClure) did not submit an application for this month.

Ozone Disinfection for Effluent Project Schedule

Milestone	Date
Notice to Proceed Issued	12/27/2021
Substantial Completion	03/27/2023
Projected Substantial Completion Date (per Contractor)	09/04/2023

Anaerobic Digestion Project (094612026)

- We are preparing the appropriate forms to obtain plan approval from the PADEP Bureau of Air Quality to include all new potential sources of emissions from the project.
- RETTEW is completing the final design of the new Waste Receiving and Dryer Buildings, along

with the remainder of the process drawings and specifications.

- Guidance on the Prevailing Wage Requirements under the Inflation Reduction Act related to the Investment Tax Credit has been published and is under review to determine all bidding requirements.
- RETTEW submitted the application to the Commonwealth Financing Agency (CFA) for the COVID-19 ARPA H2O PA Grant program for a $20 million grant for the project. We anticipate a decision on grant awards at the CFA's July Board meeting.
- RETTEW met with College Township staff to review the project and answer questions related to land development planning. Though the project qualifies as a Minor Land Development, Township staff has requested the plan be submitted as a Preliminary/Final Land Development Plan for consideration at the Planning Commission meeting on June 27th, with ultimate approval by College Township Council.

.

Anaerobic Digestion Project Schedule

Milestone	Date
Updated Biogas Term Sheets and Biosolids Agreements to Stakeholders	Week of December 12th
Submission of Land Development Plan	May 19, 2023
Submission of Building Permit Application	Week of July 10th
Complete Bidding Documents/Advertise for Bids	Week of June 5th
(Likely) CFA Meeting Grant Announcement/Bid Award	July 18, 2023
Bids Due for Construction	August 7, 2023
Begin Construction	September 2023
Complete Construction	December 2024

Modifications to GD Kissinger Meadow Stream Augmentation

- The Authority's pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require de-chlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.

6.7 Executive Director's Report

- State College Borough Delinquency – The unpaid balance for the State College Borough is $1,043,181.41. This amount includes penalties.
- Approval of the Calder Way Act 537 Plan Special Study.

7. Other Business

None.

Executive Session

A motion was made by Mr. Guss, second by Mr. Auman to go into executive session at 5:13 pm. A motion was then made by Mr. Miles, second by Mr. Ebaugh. to come out of executive session at 5:32 pm. Both motions passed unanimously.

8. Adjournment

A motion was made by Mr. Miles, second by Mr. Ebaugh, to adjourn the meeting at 5:31 pm. The motion was passed unanimously.

Respectfully submitted,

UNIVERSITY AREA JOINT AUTHORITY

_____

Secretary/Assistant Secretary

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1040410	REVENUE-SEWER	-15,820,012	0	-15,820,012	-4,145,609.31	.00	-11,674,402.69	26.2%
1040420	REVENUE-SOLIDS	-75,500	0	-75,500	-29,643.38	.00	-45,856.62	39.3%
1040425	REVENUE-BU WATER	-24,000	0	-24,000	-12,186.00	.00	-11,814.00	50.8%
1040440	REVENUE-PERMIT/TAP FEES	-2,337,814	0	-2,337,814	-321,550.28	.00	-2,016,263.72	13.8%
1040450	REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-5,504.84	.00	-34,495.16	13.8%
1040451	REVENUE-MISC. REIMBURSEMNT	-22,000	0	-22,000	-11,742.40	.00	-10,257.60	53.4%
1040470	INTEREST EARNINGS-CASH ACCT	-1,041	0	-1,041	-385.47	.00	-655.53	37.0%
1040472	INTEREST EARNINGS-PLIGIT	-65	0	-65	-151.67	.00	86.67	233.3%
1040474	INTEREST EARNINGS - TRUSTEE	-25,734	0	-25,734	-11,684.04	.00	-14,049.96	45.4%
1040480	REVENUES-MISCELLANEOUS	-132,000	0	-132,000	-72,324.05	.00	-59,675.95	54.8%
1045921	CIP-COLLECTION MAINT I&I	4,255,800	0	4,255,800	207,174.55	.00	4,048,625.45	4.9%
1045922	CIP-COLLECTION-CONST. EQUIP	376,500	0	376,500	317,826.24	.00	58,673.76	84.4%
1045924	CIP-WWTP-PHYSICAL PLANT	6,715,430	0	6,715,430	1,353,787.62	.00	5,361,642.38	20.2%
1045928	CIP-BENEFICIAL REUSE	115,000	0	115,000	.00	.00	115,000.00	.0%
1045930	CIP-WWTP-COMPOST FACILITY	14,578,800	0	14,578,800	100,346.13	.00	14,478,453.87	.7%
1045950	CIP-GENERAL & ADMINISTRATIV	208,000	0	208,000	86,789.83	.00	121,210.17	41.7%
1050050	GENERAL & ADMINISTRATIVE	1,897,024	0	1,897,024	905,951.38	.00	991,072.62	47.8%
1050053	G & A - INFORMATION TECHNOL	168,950	0	168,950	55,946.10	.00	113,003.90	33.1%
1050054	G & A - FLEET/FUEL	265,000	0	265,000	104,600.99	.00	160,399.01	39.5%
1052052	DEBT SERVICE	6,682,964	0	6,682,964	171,987.50	.00	6,510,976.50	2.6%
1060019	WWTP - LABORATORY	344,841	0	344,841	166,201.10	.00	178,639.90	48.2%
1060022	TREATMENT PLANT MAINTENANCE	1,191,808	0	1,191,808	461,058.50	.00	730,749.50	38.7%
1060023	MAIN STATION	114,000	0	114,000	65,590.01	.00	48,409.99	57.5%
1060025	WWTP - IPP	121,957	0	121,957	52,451.36	.00	69,505.64	43.0%
1060028	WWTP - BENEFICIAL REUSE	997,837	0	997,837	516,286.73	.00	481,550.27	51.7%
1060029	WWTP - DEWATERING	546,762	0	546,762	220,095.39	.00	326,666.61	40.3%
1060030	WWTP - COMPOST	897,403	0	897,403	481,482.19	.00	415,920.81	53.7%
1060032	TREATMENT PLANT OPERATION	2,397,281	0	2,397,281	1,035,575.00	.00	1,361,706.00	43.2%
1070021	COLLECTION-MAINTENANCE	2,024,835	0	2,024,835	736,125.37	.00	1,288,709.63	36.4%
1070022	CONSTRUCT EQUIP MAINTENANCE	88,000	0	88,000	22,659.30	.00	65,340.70	25.7%
1070034	COLLECTION-INSPECTION	496,416	0	496,416	177,064.73	.00	319,351.27	35.7%
1070036	COLLECTION-PUMP STATION	157,900	0	157,900	40,847.86	.00	117,052.14	25.9%
	TOTAL OPERATING FUND	26,164,342	0	26,164,342	2,669,066.44	.00	23,495,275.56	10.2%
	TOTAL REVENUES	-18,478,166	0	-18,478,166	-4,610,781.44	.00	-13,867,384.56	
	TOTAL EXPENSES	44,642,508	0	44,642,508	7,279,847.88	.00	37,362,660.12	

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
GRAND TOTAL	26,164,342	0	26,164,342	2,669,066.44	.00	23,495,275.56	10.2%

** END OF REPORT - Generated by Sierra Weight **

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1040410 REVENUE-SEWER								
1040410 4101	UAJA TOTAL SEWER R	-10,819,244	0	-10,819,244	-2,710,578.99	.00	-8,108,665.01	25.1%*
1040410 4102	BORO SEWER TOTAL R	-4,300,000	0	-4,300,000	-1,292,753.58	.00	-3,007,246.42	30.1%*
1040410 4103	PGM TOTAL SEWER RE	-385,768	0	-385,768	-86,805.74	.00	-298,962.26	22.5%*
1040410 4104	PSU TOTAL SEWER RE	-190,000	0	-190,000	-7,163.00	.00	-182,837.00	3.8%*
1040410 4105	SURCHARGES TOTAL R	-125,000	0	-125,000	-48,308.00	.00	-76,692.00	38.6%*
TOTAL REVENUE-SEWER		-15,820,012	0	-15,820,012	-4,145,609.31	.00	-11,674,402.69	26.2%
1040420 REVENUE-SOLIDS								
1040420 4201	N5001 NONTAXABLE	-22,500	0	-22,500	-17,298.00	.00	-5,202.00	76.9%*
1040420 4201	N5002 TAXABLE COMPO	-3,000	0	-3,000	-7,505.73	.00	4,505.73	250.2%
1040420 4203	SLUDGE DISPOSAL	-50,000	0	-50,000	-4,839.65	.00	-45,160.35	9.7%*
TOTAL REVENUE-SOLIDS		-75,500	0	-75,500	-29,643.38	.00	-45,856.62	39.3%
1040425 REVENUE-BU WATER								
1040425 4251	REVENUE-BU WATER	-24,000	0	-24,000	-12,186.00	.00	-11,814.00	50.8%*
TOTAL REVENUE-BU WATER		-24,000	0	-24,000	-12,186.00	.00	-11,814.00	50.8%
1040440 REVENUE-PERMIT/TAP FEES								
1040440 4401	PERMIT/CONNECTION	-20,000	0	-20,000	-5,800.00	.00	-14,200.00	29.0%*
1040440 4402	TAP FEE-TREATMENT	-2,214,450	0	-2,214,450	-285,397.00	.00	-1,929,053.00	12.9%*
1040440 4403	GHANER TAP FEE	-11,137	0	-11,137	-3,311.00	.00	-7,826.00	29.7%*
1040440 4404	TAP FEE-PGM COLLEC	-11,000	0	-11,000	.00	.00	-11,000.00	.0%*
1040440 4405	IPP USER FEES	-3,800	0	-3,800	.00	.00	-3,800.00	.0%*
1040440 4409	WATER QUALITY MNGT	-500	0	-500	-100.00	.00	-400.00	20.0%*
1040440 4410	REPAIR PERMIT	-1,500	0	-1,500	-500.00	.00	-1,000.00	33.3%*
1040440 4411	TAP FEE - ROUTE 26	-33,900	0	-33,900	-16,950.00	.00	-16,950.00	50.0%*
1040440 4412	CIRCLEVILLE TAP FE	0	0	0	-3,058.38	.00	3,058.38	100.0%
1040440 4413	VALLEY VISTA TAP F	-41,527	0	-41,527	-6,433.90	.00	-35,093.10	15.5%*

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
TOTAL REVENUE-PERMIT/TAP FEES	-2,337,814	0	-2,337,814	-321,550.28	.00	-2,016,263.72	13.8%
1040450 REVENUE-ADVCD. CONSTRC FEE							
1040450 4407 INSPECTION FEES	-40,000	0	-40,000	.00	.00	-40,000.00	.0%*
1040450 4407 B5192 VILLAGE AT PE	0	0	0	-1,400.79	.00	1,400.79	100.0%
1040450 4407 B5475 INSPECTION FE	0	0	0	-4,104.05	.00	4,104.05	100.0%
TOTAL REVENUE-ADVCD. CONSTRC FEE	-40,000	0	-40,000	-5,504.84	.00	-34,495.16	13.8%
1040451 REVENUE-MISC. REIMBURSEMNT							
1040451 4503 EMPLOYEE GR0UP INS	-22,000	0	-22,000	-11,742.40	.00	-10,257.60	53.4%*
TOTAL REVENUE-MISC. REIMBURSEMNT	-22,000	0	-22,000	-11,742.40	.00	-10,257.60	53.4%
1040470 INTEREST EARNINGS-CASH ACCTS							
1040470 4701 GENERAL CHECKING-I	-477	0	-477	-231.18	.00	-245.82	48.5%*
1040470 4702 PAYROLL-INTEREST E	-66	0	-66	-37.13	.00	-28.87	56.3%*
1040470 4717 SWEEP CHECKING-INT	-498	0	-498	-117.16	.00	-380.84	23.5%*
TOTAL INTEREST EARNINGS-CASH ACCTS	-1,041	0	-1,041	-385.47	.00	-655.53	37.0%
1040472 INTEREST EARNINGS-PLIGIT							
1040472 4703 PLIGIT-INTEREST EA	-15	0	-15	-22.52	.00	7.52	150.1%
1040472 4719 PLIGIT PLUS - INTE	-50	0	-50	-129.15	.00	79.15	258.3%
TOTAL INTEREST EARNINGS-PLIGIT	-65	0	-65	-151.67	.00	86.67	233.3%
1040474 INTEREST EARNINGS - TRUSTEE							
1040474 4706 BOND REMP/IMP-INTE	-4,816	0	-4,816	786.01	.00	-5,602.01	-16.3%*

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1040474 4724 INTEREST 93 DEBT S	-20,000	0	-20,000	-12,194.82	.00	-7,805.18	61.0%*
1040474 4725 INT 93 OPERATING E	-100	0	-100	-12.59	.00	-87.41	12.6%*
1040474 4726 INT 93 DEBT SERVIC	-18	0	-18	-4.03	.00	-13.97	22.4%*
1040474 4727 INT REVENUE FUND	-150	0	-150	-28.16	.00	-121.84	18.8%*
1040474 4733 2020A CONSTRUCTION	-300	0	-300	-84.27	.00	-215.73	28.1%*
1040474 4734 2021 CONSTRUCTION	-350	0	-350	-146.18	.00	-203.82	41.8%*
TOTAL INTEREST EARNINGS - TRUSTEE	-25,734	0	-25,734	-11,684.04	.00	-14,049.96	45.4%
1040480 REVENUES-MISCELLANEOUS							
1040480 4899 MISCELLANEOUS RECE	-10,000	0	-10,000	-16,431.05	.00	6,431.05	164.3%
1040480 4909 SOLAR MAINTENANCE	-60,000	0	-60,000	-30,000.00	.00	-30,000.00	50.0%*
1040480 4910 SREC	-62,000	0	-62,000	-25,893.00	.00	-36,107.00	41.8%*
TOTAL REVENUES-MISCELLANEOUS	-132,000	0	-132,000	-72,324.05	.00	-59,675.95	54.8%
1045921 CIP-COLLECTION MAINT I&I							
1045921 0021 6247 MEEKS LANE	1,000,000	0	1,000,000	.00	.00	1,000,000.00	.0%
1045921 0021 6337 PRINCETON DRIV	25,000	0	25,000	.00	.00	25,000.00	.0%
1045921 0021 6362 CAPITAL IN PRO	196,000	0	196,000	93,469.85	.00	102,530.15	47.7%
1045921 0021 6365 CAPITAL IN PRO	30,000	0	30,000	19,774.05	.00	10,225.95	65.9%
1045921 0021 6366 CAPITAL IN PRO	235,000	0	235,000	.00	.00	235,000.00	.0%
1045921 5405 6247 MEEKS LANE	432,000	0	432,000	.00	.00	432,000.00	.0%
1045921 5405 6300 SCOTT ROAD UPG	10,400	0	10,400	6,026.00	.00	4,374.00	57.9%
1045921 5405 6337 PRINCETON DRIV	1,500	0	1,500	.00	.00	1,500.00	.0%
1045921 5505 6247 MEEKS LANE	1,500,000	0	1,500,000	.00	.00	1,500,000.00	.0%
1045921 5505 6300 PUMP STATION M	540,900	0	540,900	87,904.65	.00	452,995.35	16.3%
1045921 ER05 6247 MEEKS LANE	100,000	0	100,000	.00	.00	100,000.00	.0%
1045921 ER05 6364 RENTAL-TRUCK	50,000	0	50,000	.00	.00	50,000.00	.0%
1045921 ER05 6377 RENTAL-TRUCK	50,000	0	50,000	.00	.00	50,000.00	.0%
1045921 PV01 6247 MEEKS LANE	30,000	0	30,000	.00	.00	30,000.00	.0%
1045921 PV01 6337 PRINCETON DRIV	5,000	0	5,000	.00	.00	5,000.00	.0%
1045921 PV01 6363 PAVING CONTRAC	10,000	0	10,000	.00	.00	10,000.00	.0%
1045921 PV02 6141 DRIVEWAY PAVIN	40,000	0	40,000	.00	.00	40,000.00	.0%
TOTAL CIP-COLLECTION MAINT I&I	4,255,800	0	4,255,800	207,174.55	.00	4,048,625.45	4.9%
1045922 CIP-COLLECTION-CONST. EQUIPM							
1045922 0021 6378 CAPITAL IN PRO	110,000	0	110,000	77,144.24	.00	32,855.76	70.1%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1045922 0021 6379 CAPITAL IN PRO	212,500	0	212,500	212,500.00	.00	.00	100.0%
1045922 0021 6380 CAPITAL IN PRO	28,000	0	28,000	28,182.00	.00	-182.00	100.7%*
1045922 0021 6381 CAPITAL IN PRO	26,000	0	26,000	.00	.00	26,000.00	.0%
TOTAL CIP-COLLECTION-CONST. EQUIPM	376,500	0	376,500	317,826.24	.00	58,673.76	84.4%
1045924 CIP-WWTP-PHYSICAL PLANT							
1045924 0024 6304 AERATION SYSTE	141,360	0	141,360	.00	.00	141,360.00	.0%
1045924 0024 6324 OZONE DISINFEC	116,000	0	116,000	15,359.00	.00	100,641.00	13.2%
1045924 0024 6325 OZONE DISINFEC	4,230,000	0	4,230,000	1,337,953.62	.00	2,892,046.38	31.6%
1045924 0024 6333 DISSOLVED PHOS	100,000	0	100,000	475.00	.00	99,525.00	.5%
1045924 0024 6338 HEADWORKS BUIL	770,000	0	770,000	.00	.00	770,000.00	.0%
1045924 0024 6345 CAPITAL IN PRO	35,400	0	35,400	.00	.00	35,400.00	.0%
1045924 0024 6347 CAPITAL IN PRO	60,280	0	60,280	.00	.00	60,280.00	.0%
1045924 0024 6349 CAPITAL IN PRO	500,000	0	500,000	.00	.00	500,000.00	.0%
1045924 0024 6351 CAPITAL IN PRO	108,240	0	108,240	.00	.00	108,240.00	.0%
1045924 0024 6353 CAPITAL IN PRO	253,000	0	253,000	.00	.00	253,000.00	.0%
1045924 0024 6355 CAPITAL IN PRO	190,000	0	190,000	.00	.00	190,000.00	.0%
1045924 5405 6346 ENGINEERING	6,940	0	6,940	.00	.00	6,940.00	.0%
1045924 5405 6348 ENGINEERING	17,820	0	17,820	.00	.00	17,820.00	.0%
1045924 5405 6350 ENGINEERING	45,000	0	45,000	.00	.00	45,000.00	.0%
1045924 5405 6352 ENGINEERING	8,800	0	8,800	.00	.00	8,800.00	.0%
1045924 5405 6354 ENGINEERING	20,240	0	20,240	.00	.00	20,240.00	.0%
1045924 5405 6356 ENGINEERING	30,000	0	30,000	.00	.00	30,000.00	.0%
1045924 5405 6357 ENGINEERING	4,000	0	4,000	.00	.00	4,000.00	.0%
1045924 5405 6358 ENGINEERING	42,300	0	42,300	.00	.00	42,300.00	.0%
1045924 5405 6359 ENGINEERING	36,050	0	36,050	.00	.00	36,050.00	.0%
TOTAL CIP-WWTP-PHYSICAL PLANT	6,715,430	0	6,715,430	1,353,787.62	.00	5,361,642.38	20.2%
1045928 CIP-BENEFICIAL REUSE							
1045928 0028 6239 MF MEMBRANE RE	90,000	0	90,000	.00	.00	90,000.00	.0%
1045928 5405 6360 ENGINEERING	25,000	0	25,000	.00	.00	25,000.00	.0%
TOTAL CIP-BENEFICIAL REUSE	115,000	0	115,000	.00	.00	115,000.00	.0%
1045930 CIP-WWTP-COMPOST FACILITY							
1045930 0030 6326 SOLIDS DRYING	570,000	0	570,000	100,346.13	.00	469,653.87	17.6%

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1045930 0030 6327 SOLIDS DRYING	14,008,800	0	14,008,800	.00	.00	14,008,800.00	.0%
TOTAL CIP-WWTP-COMPOST FACILITY	14,578,800	0	14,578,800	100,346.13	.00	14,478,453.87	.7%
1045950 CIP-GENERAL & ADMINISTRATIVE							
1045950 0050 6043 COMPUTER HARDW	30,000	0	30,000	6,091.25	.00	23,908.75	20.3%
1045950 0050 6047 COMPUTER SOFTW	30,000	0	30,000	.00	.00	30,000.00	.0%
1045950 0050 6339 IT SYSTEM UPGR	133,000	0	133,000	71,139.45	.00	61,860.55	53.5%
1045950 0050 6361 CAPITAL IN PRO	15,000	0	15,000	9,559.13	.00	5,440.87	63.7%
TOTAL CIP-GENERAL & ADMINISTRATIVE	208,000	0	208,000	86,789.83	.00	121,210.17	41.7%
1050050 GENERAL & ADMINISTRATIVE							
1050050 5001 SUPERVISOR LABOR	300,546	0	300,546	85,203.38	.00	215,342.62	28.3%
1050050 5002 REGULAR LABOR	294,713	0	294,713	130,999.86	.00	163,713.14	44.4%
1050050 5006 VACATION	0	0	0	16,690.26	.00	-16,690.26	100.0%*
1050050 5007 SICK	0	0	0	8,311.14	.00	-8,311.14	100.0%*
1050050 5008 PERSONAL	0	0	0	3,587.68	.00	-3,587.68	100.0%*
1050050 5009 JURY/CIVIL/VOLUNTE	0	0	0	488.11	.00	-488.11	100.0%*
1050050 5010 HOLIDAY	0	0	0	12,852.99	.00	-12,852.99	100.0%*
1050050 5101 FICA EXPENSE	36,906	0	36,906	16,151.09	.00	20,754.91	43.8%
1050050 5102 MEDICARE EXPENSE	8,632	0	8,632	3,777.18	.00	4,854.82	43.8%
1050050 5201 UNEMPLOYMENT EXPEN	25,000	0	25,000	16,864.06	.00	8,135.94	67.5%
1050050 5202 GROUP HEALTH INSUR	132,688	0	132,688	54,722.58	.00	77,965.42	41.2%
1050050 5203 PENSION (401) UAJA	59,526	0	59,526	25,955.35	.00	33,570.65	43.6%
1050050 5205 COBRA EMPLOYEE INS	22,000	0	22,000	13,264.39	.00	8,735.61	60.3%
1050050 5207 GROUP LIFE INSURAN	102,000	0	102,000	55,219.96	.00	46,780.04	54.1%
1050050 5208 HEALTH DEDUCTIBLE	175,000	0	175,000	51,490.77	.00	123,509.23	29.4%
1050050 5301 OFFICE SUPPLIES	20,000	0	20,000	9,088.86	.00	10,911.14	45.4%
1050050 5302 POSTAGE/SHIPPING	35,000	0	35,000	19,395.29	.00	15,604.71	55.4%
1050050 5303 JANITORIAL SUPPLIE	7,000	0	7,000	1,924.54	.00	5,075.46	27.5%
1050050 5307 PETTY CASH EXPENDI	200	0	200	.00	.00	200.00	.0%
1050050 5401 ADVERTISING	1,500	0	1,500	254.10	.00	1,245.90	16.9%
1050050 5402 AUDIT	23,500	0	23,500	21,000.00	.00	2,500.00	89.4%
1050050 5405 ENGINEERING-RETAIN	1,000	0	1,000	500.00	.00	500.00	50.0%
1050050 5406 LEGAL	75,000	0	75,000	46,871.67	.00	28,128.33	62.5%
1050050 5408 INSURANCE - COMMER	354,681	0	354,681	235,528.00	.00	119,153.00	66.4%
1050050 5499 MISCELLANEOUS OUTS	30,000	0	30,000	16,492.33	.00	13,507.67	55.0%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1050050 5501 1054 O & M - COPIER	9,704	0	9,704	195.00	.00	9,509.00	2.0%
1050050 5601 COMMUNICATIONS	30,000	0	30,000	7,461.49	.00	22,538.51	24.9%
1050050 5701 TRAINING, SEMINARS	16,000	0	16,000	12,882.41	.00	3,117.59	80.5%
1050050 5702 MEMBERSHIPS, SUBSC	8,500	0	8,500	3,885.99	.00	4,614.01	45.7%
1050050 5703 UNIFORMS-BOOTS-GLO	22,000	0	22,000	12,797.23	.00	9,202.77	58.2%
1050050 5704 VACCINATIONS	8,000	0	8,000	.00	.00	8,000.00	.0%
1050050 5706 EMPLOYEE/EMPLOYER	3,000	0	3,000	1,153.41	.00	1,846.59	38.4%
1050050 5707 MEAL ALLOWANCE	500	0	500	.00	.00	500.00	.0%
1050050 5708 SAFETY EQUIPMENT	8,000	0	8,000	674.50	.00	7,325.50	8.4%
1050050 5710 DRUG/ALCOHOL TESTI	1,300	0	1,300	379.00	.00	921.00	29.2%
1050050 6006 MISCELLANEOUS EXPE	1,000	0	1,000	477.00	.00	523.00	47.7%
1050050 6007 BANK FEES/CHARGES	0	0	0	85.00	.00	-85.00	100.0%*
1050050 6015 WATER-CTWA	12,000	0	12,000	2,293.20	.00	9,706.80	19.1%
1050050 6017 GARBAGE	8,000	0	8,000	1,956.56	.00	6,043.44	24.5%
1050050 6019 CNET	9,228	0	9,228	2,307.00	.00	6,921.00	25.0%
1050050 6382 CUSTODIAN SERVICES	52,800	0	52,800	12,070.00	.00	40,730.00	22.9%
1050050 6383 PEST CONTROL	2,100	0	2,100	700.00	.00	1,400.00	33.3%
TOTAL GENERAL & ADMINISTRATIVE	1,897,024	0	1,897,024	905,951.38	.00	991,072.62	47.8%
1050053 G & A - INFORMATION TECHNOLOGY							
1050053 IT71 INTERNET SERVICE	7,850	0	7,850	2,377.77	.00	5,472.23	30.3%
1050053 IT72 HARDWARE-DATA PROC	33,250	0	33,250	2,254.05	.00	30,995.95	6.8%
1050053 IT73 SOFTWARE-DATA PROC	107,350	0	107,350	33,584.00	.00	73,766.00	31.3%
1050053 IT74 IT MOBILE	20,500	0	20,500	17,730.28	.00	2,769.72	86.5%
TOTAL G & A - INFORMATION TECHNOLOGY	168,950	0	168,950	55,946.10	.00	113,003.90	33.1%
1050054 G & A - FLEET/FUEL							
1050054 5502 VEHICLE MAINTENANC	80,000	0	80,000	47,776.18	.00	32,223.82	59.7%
1050054 5603 1006 GASOLINE.	35,000	0	35,000	11,219.60	.00	23,780.40	32.1%
1050054 5603 1008 DIESEL FUEL	150,000	0	150,000	45,605.21	.00	104,394.79	30.4%
TOTAL G & A - FLEET/FUEL	265,000	0	265,000	104,600.99	.00	160,399.01	39.5%
1052052 DEBT SERVICE							
1052052 5801 INTEREST PAID-1993	2,090,924	0	2,090,924	160,337.50	.00	1,930,586.50	7.7%

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1052052 5901	PRINCIPAL PAID-199	4,576,000	0	4,576,000	.00	.00	4,576,000.00	.0%
1052052 6122	2015 TRUSTEE FEES	1,650	0	1,650	1,650.00	.00	.00	100.0%
1052052 6125	TRUSTEE FESS 2017A	1,750	0	1,750	.00	.00	1,750.00	.0%
1052052 6126	TRUSTEE FEE 2017B	2,640	0	2,640	.00	.00	2,640.00	.0%
1052052 6127	TRUSTEE FEE 2018	1,650	0	1,650	1,650.00	.00	.00	100.0%
1052052 6128	TRUSTEE FEE 2020	1,650	0	1,650	3,300.00	.00	-1,650.00	200.0%*
1052052 6129	TRUSTEE FEE 20A	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6130	TRUSTEE FEE 21	1,650	0	1,650	3,300.00	.00	-1,650.00	200.0%*
1052052 6131	TRUSTEE FEE 21A	1,650	0	1,650	.00	.00	1,650.00	.0%
1052052 6132	TRUSTEE FEE 22	1,750	0	1,750	1,750.00	.00	.00	100.0%
TOTAL DEBT SERVICE		6,682,964	0	6,682,964	171,987.50	.00	6,510,976.50	2.6%
1060019 WWTP - LABORATORY								
1060019 5001	SUPERVISOR LABOR	87,497	0	87,497	36,360.12	.00	51,136.88	41.6%
1060019 5002	REGULAR LABOR	155,100	0	155,100	53,386.78	.00	101,713.22	34.4%
1060019 5003	OVERTIME LABOR	1,000	0	1,000	54.49	.00	945.51	5.4%
1060019 5005	COMP TIME	0	0	0	893.71	.00	-893.71	100.0%*
1060019 5006	VACATION	0	0	0	19,081.73	.00	-19,081.73	100.0%*
1060019 5007	SICK	0	0	0	1,392.46	.00	-1,392.46	100.0%*
1060019 5008	PERSONAL DAY	0	0	0	3,351.43	.00	-3,351.43	100.0%*
1060019 5010	HOLIDAY	0	0	0	2,266.16	.00	-2,266.16	100.0%*
1060019 5101	FICA EXPENSE	15,041	0	15,041	6,120.60	.00	8,920.40	40.7%
1060019 5102	MEDICARE EXPENSE	3,518	0	3,518	1,431.34	.00	2,086.66	40.7%
1060019 5202	GROUP HEALTH INSUR	37,530	0	37,530	17,121.43	.00	20,408.57	45.6%
1060019 5203	PENSION (401) UAJA	16,505	0	16,505	7,509.16	.00	8,995.84	45.5%
1060019 5305	SMALL EQUIPMT/TOOL	150	0	150	1,419.88	.00	-1,269.88	946.6%*
1060019 5306	LAB SUPPLIES	25,000	0	25,000	15,779.20	.00	9,220.80	63.1%
1060019 5501	EQUIPMENT MAINTENA	3,500	0	3,500	32.61	.00	3,467.39	.9%
TOTAL WWTP - LABORATORY		344,841	0	344,841	166,201.10	.00	178,639.90	48.2%
1060022 TREATMENT PLANT MAINTENANCE								
1060022 5001	SUPERVISOR LABOR	41,593	0	41,593	31,810.03	.00	9,782.97	76.5%
1060022 5002	REGULAR LABOR	430,010	0	430,010	139,956.28	.00	290,053.72	32.5%
1060022 5003	OVERTIME LABOR	8,000	0	8,000	1,321.90	.00	6,678.10	16.5%
1060022 5006	VACATION	0	0	0	6,475.48	.00	-6,475.48	100.0%*
1060022 5007	SICK	0	0	0	11,719.02	.00	-11,719.02	100.0%*

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1060022 5008 PERSONAL DAY	0	0	0	6,854.31	.00	-6,854.31	100.0%*
1060022 5009 JURY/CIVIL/VOLUNTE	0	0	0	1,210.29	.00	-1,210.29	100.0%*
1060022 5010 HOLIDAY	0	0	0	8,597.04	.00	-8,597.04	100.0%*
1060022 5101 FICA EXPENSE	29,612	0	29,612	13,060.10	.00	16,551.90	44.1%
1060022 5102 MEDICARE EXPENSE	6,839	0	6,839	3,054.31	.00	3,784.69	44.7%
1060022 5202 GROUP HEALTH INSUR	124,564	0	124,564	44,280.94	.00	80,283.06	35.5%
1060022 5203 PENSION (401) UAJA	25,660	0	25,660	15,528.47	.00	10,131.53	60.5%
1060022 5304 OPERATIONAL SUPPLI	5,000	0	5,000	2,079.25	.00	2,920.75	41.6%
1060022 5305 SMALL EQUIPMT/TOOL	14,000	0	14,000	5,521.40	.00	8,478.60	39.4%
1060022 5501 EQUIPMENT MAINTENA	134,750	0	134,750	82,867.63	.00	51,882.37	61.5%
1060022 5501 6174 SCADIA MAINT	82,600	0	82,600	25,309.12	.00	57,290.88	30.6%
1060022 5501 6175 UV MAINT	32,000	0	32,000	418.49	.00	31,581.51	1.3%
1060022 5501 6283 SOLAR MAINTENA	120,000	0	120,000	18,855.51	.00	101,144.49	15.7%
1060022 5503 BUILDING & GROUND	35,000	0	35,000	15,600.20	.00	19,399.80	44.6%
1060022 5508 GRIT REMOVAL-PLANT	20,000	0	20,000	5,301.90	.00	14,698.10	26.5%
1060022 5603 FUEL, OIL, LUBRICA	25,000	0	25,000	5,371.07	.00	19,628.93	21.5%
1060022 6384 SOLAR GRAZING	17,180	0	17,180	8,590.00	.00	8,590.00	50.0%
1060022 7511 LANDSCAPE	40,000	0	40,000	7,275.76	.00	32,724.24	18.2%
TOTAL TREATMENT PLANT MAINTENANCE	1,191,808	0	1,191,808	461,058.50	.00	730,749.50	38.7%
1060023 MAIN STATION							
1060023 5002 B5001 REGULAR LABOR	0	0	0	5,769.60	.00	-5,769.60	100.0%*
1060023 5101 B5001 FICA EXPENSE	0	0	0	357.75	.00	-357.75	100.0%*
1060023 5102 B5001 MEDICARE EXPE	0	0	0	83.66	.00	-83.66	100.0%*
1060023 5202 B5001 GROUP HEALTH	0	0	0	1,037.21	.00	-1,037.21	100.0%*
1060023 5203 B5001 PENSION (401)	0	0	0	430.11	.00	-430.11	100.0%*
1060023 5505 B5001 PUMP STATION	75,000	0	75,000	16,407.55	.00	58,592.45	21.9%
1060023 5602 B5001 O&M MAIN STAT	39,000	0	39,000	41,504.13	.00	-2,504.13	106.4%*
TOTAL MAIN STATION	114,000	0	114,000	65,590.01	.00	48,409.99	57.5%
1060025 WWTP - IPP							
1060025 5001 SUPERVISOR LABOR	87,497	0	87,497	36,302.25	.00	51,194.75	41.5%
1060025 5006 VACATION	0	0	0	1,737.61	.00	-1,737.61	100.0%*
1060025 5007 SICK	0	0	0	86.85	.00	-86.85	100.0%*
1060025 5010 HOLIDAY	0	0	0	811.16	.00	-811.16	100.0%*
1060025 5101 FICA EXPENSE	5,425	0	5,425	2,426.51	.00	2,998.49	44.7%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1060025 5102	MEDICARE EXPENSE	1,269	0	1,269	567.51	.00	701.49	44.7%
1060025 5202	GROUP HEALTH INSUR	14,616	0	14,616	7,374.11	.00	7,241.89	50.5%
1060025 5203	PENSION (401) UAJA	8,750	0	8,750	3,145.36	.00	5,604.64	35.9%
1060025 5305	SMALL EQUIPMT/TOOL	400	0	400	.00	.00	400.00	.0%
1060025 5410	ANALYSIS	3,000	0	3,000	.00	.00	3,000.00	.0%
1060025 5501	EQUIPMENT MAINTENA	1,000	0	1,000	.00	.00	1,000.00	.0%
TOTAL WWTP - IPP		121,957	0	121,957	52,451.36	.00	69,505.64	43.0%
1060028 WWTP - BENEFICIAL REUSE								
1060028 5001	SUPERVISOR LABOR	41,593	0	41,593	20,623.93	.00	20,969.07	49.6%
1060028 5006	VACATION	0	0	0	174.40	.00	-174.40	100.0%*
1060028 5010	HOLIDAY	0	0	0	637.47	.00	-637.47	100.0%*
1060028 5101	FICA EXPENSE	2,579	0	2,579	1,329.01	.00	1,249.99	51.5%
1060028 5102	MEDICARE EXPENSE	603	0	603	310.81	.00	292.19	51.5%
1060028 5202	GROUP HEALTH INSUR	9,902	0	9,902	3,338.75	.00	6,563.25	33.7%
1060028 5203	PENSION (401) UAJA	4,160	0	4,160	1,388.48	.00	2,771.52	33.4%
1060028 5304	OPERATIONAL SUPPLI	17,000	0	17,000	.00	.00	17,000.00	.0%
1060028 5304 1065	OPERATIONAL SU	490,000	0	490,000	220,595.25	.00	269,404.75	45.0%
1060028 5305	SMALL EQUIPMT/TOOL	2,000	0	2,000	.00	.00	2,000.00	.0%
1060028 5410	LAB ANALYSIS	10,000	0	10,000	3,495.00	.00	6,505.00	35.0%
1060028 5501	EQUIPMENT MAINTENA	150,000	0	150,000	136,685.79	.00	13,314.21	91.1%
1060028 5602 1064	POWER	200,000	0	200,000	94,966.26	.00	105,033.74	47.5%
1060028 5605	CTWA REIMBURSE	70,000	0	70,000	32,741.58	.00	37,258.42	46.8%
TOTAL WWTP - BENEFICIAL REUSE		997,837	0	997,837	516,286.73	.00	481,550.27	51.7%
1060029 WWTP - DEWATERING								
1060029 5001	SUPERVISOR LABOR	41,593	0	41,593	20,623.93	.00	20,969.07	49.6%
1060029 5002	REGULAR LABOR	135,398	0	135,398	44,882.29	.00	90,515.71	33.1%
1060029 5003	OVERTIME LABOR	3,500	0	3,500	1,677.26	.00	1,822.74	47.9%
1060029 5006	VACATION	0	0	0	1,038.39	.00	-1,038.39	100.0%*
1060029 5007	SICK	0	0	0	576.00	.00	-576.00	100.0%*
1060029 5008	PERSONAL	0	0	0	1,115.99	.00	-1,115.99	100.0%*
1060029 5009	JURY/CIVIL/VOLUNTE	0	0	0	288.00	.00	-288.00	100.0%*
1060029 5010	HOLIDAY	0	0	0	3,149.37	.00	-3,149.37	100.0%*
1060029 5101	FICA EXPENSE	11,160	0	11,160	4,547.78	.00	6,612.22	40.8%
1060029 5102	MEDICARE EXPENSE	2,611	0	2,611	1,063.61	.00	1,547.39	40.7%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1060029 5202 GROUP HEALTH INSUR	61,070	0	61,070	20,410.03	.00	40,659.97	33.4%
1060029 5203 PENSION (401) UAJA	10,930	0	10,930	5,156.38	.00	5,773.62	47.2%
1060029 5304 OPERATIONAL SUPPLI	500	0	500	28.97	.00	471.03	5.8%
1060029 5304 1036 POLYMER	70,000	0	70,000	25,960.00	.00	44,040.00	37.1%
1060029 5501 EQUIPMENT MAINTENA	125,000	0	125,000	46,410.88	.00	78,589.12	37.1%
1060029 5602 1042 POWER-DEWATERI	85,000	0	85,000	43,166.51	.00	41,833.49	50.8%
TOTAL WWTP - DEWATERING	546,762	0	546,762	220,095.39	.00	326,666.61	40.3%
1060030 WWTP - COMPOST							
1060030 5001 SUPERVISOR LABOR	41,593	0	41,593	20,659.33	.00	20,933.67	49.7%
1060030 5002 REGULAR LABOR	257,860	0	257,860	61,409.47	.00	196,450.53	23.8%
1060030 5003 OVERTIME LABOR	21,000	0	21,000	14,011.22	.00	6,988.78	66.7%
1060030 5006 VACATION	0	0	0	459.02	.00	-459.02	100.0%*
1060030 5007 SICK	0	0	0	1,576.52	.00	-1,576.52	100.0%*
1060030 5008 PERSONAL	0	0	0	2,306.98	.00	-2,306.98	100.0%*
1060030 5009 JURY/CIVIL/VOLUNTE	0	0	0	842.92	.00	-842.92	100.0%*
1060030 5010 HOLIDAY	0	0	0	6,349.28	.00	-6,349.28	100.0%*
1060030 5101 FICA EXPENSE	20,039	0	20,039	6,807.02	.00	13,231.98	34.0%
1060030 5102 MEDICARE EXPENSE	4,687	0	4,687	1,591.96	.00	3,095.04	34.0%
1060030 5202 GROUP HEALTH INSUR	52,171	0	52,171	26,858.76	.00	25,312.24	51.5%
1060030 5203 PENSION (401) UAJA	17,053	0	17,053	4,141.22	.00	12,911.78	24.3%
1060030 5304 OPERATIONAL SUPPLI	2,000	0	2,000	88.23	.00	1,911.77	4.4%
1060030 5304 1038 COMPOST AMEND	75,000	0	75,000	84,725.00	.00	-9,725.00	113.0%*
1060030 5305 SMALL EQUIPMT/TOOL	2,500	0	2,500	1,763.15	.00	736.85	70.5%
1060030 5409 LICENSE & FEES	5,000	0	5,000	8,916.74	.00	-3,916.74	178.3%*
1060030 5410 LAB ANALYSIS	8,500	0	8,500	2,348.00	.00	6,152.00	27.6%
1060030 5415 VECTOR CONTROL	0	0	0	6,120.19	.00	-6,120.19	100.0%*
1060030 5501 EQUIPMENT MAINTENA	80,000	0	80,000	22,555.73	.00	57,444.27	28.2%
1060030 5506 1032 SKID STEER 184	5,000	0	5,000	5,512.08	.00	-512.08	110.2%*
1060030 5506 1033 FRONT END LOAD	12,000	0	12,000	4,281.73	.00	7,718.27	35.7%
1060030 5506 1055 STREET SWEEPER	5,000	0	5,000	1,306.34	.00	3,693.66	26.1%
1060030 5506 1062 CAT SKID STEER	8,000	0	8,000	2,138.29	.00	5,861.71	26.7%
1060030 5506 1071 LOADER MAINT 6	5,000	0	5,000	1,796.49	.00	3,203.51	35.9%
1060030 5506 1072 TROMMEL	5,000	0	5,000	372.00	.00	4,628.00	7.4%
1060030 5602 1041 POWER-COMPOST	100,000	0	100,000	77,699.71	.00	22,300.29	77.7%
1060030 5603 1007 NATURAL GAS -	170,000	0	170,000	114,844.81	.00	55,155.19	67.6%
TOTAL WWTP - COMPOST	897,403	0	897,403	481,482.19	.00	415,920.81	53.7%
1060032 TREATMENT PLANT OPERATION							
1060032 5001 SUPERVISOR LABOR	41,593	0	41,593	20,623.93	.00	20,969.07	49.6%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1060032 5002 REGULAR LABOR	690,759	0	690,759	170,308.22	.00	520,450.78	24.7%
1060032 5003 OVERTIME LABOR	115,000	0	115,000	95,137.66	.00	19,862.34	82.7%
1060032 5004 SHIFT LABOR	12,500	0	12,500	3,620.63	.00	8,879.37	29.0%
1060032 5006 VACATION	0	0	0	8,183.16	.00	-8,183.16	100.0%*
1060032 5007 SICK	0	0	0	5,061.64	.00	-5,061.64	100.0%*
1060032 5008 PERSONAL DAY	0	0	0	3,201.67	.00	-3,201.67	100.0%*
1060032 5010 HOLIDAY	0	0	0	12,382.68	.00	-12,382.68	100.0%*
1060032 5101 FICA EXPENSE	49,126	0	49,126	20,011.62	.00	29,114.38	40.7%
1060032 5102 MEDICARE EXPENSE	11,489	0	11,489	4,680.20	.00	6,808.80	40.7%
1060032 5202 GROUP HEALTH INSUR	207,366	0	207,366	77,028.15	.00	130,337.85	37.1%
1060032 5203 PENSION (401) UAJA	38,698	0	38,698	12,160.37	.00	26,537.63	31.4%
1060032 5204 OVERHEAD	500	0	500	.00	.00	500.00	.0%
1060032 5304 OPERATION SUPPLIES	0	0	0	1,388.47	.00	-1,388.47	100.0%*
1060032 5304 1034 ALUM	225,000	0	225,000	92,577.98	.00	132,422.02	41.1%
1060032 5304 1070 CARBON SUPPLEM	285,000	0	285,000	140,590.38	.00	144,409.62	49.3%
1060032 5405 1053 STREAM MONITOR	14,250	0	14,250	.00	.00	14,250.00	.0%
1060032 5409 LICENSE & FEES	9,000	0	9,000	5,300.00	.00	3,700.00	58.9%
1060032 5410 ANALYSIS	22,000	0	22,000	11,187.32	.00	10,812.68	50.9%
1060032 5499 MISCELLANEOUS OUTS	50,000	0	50,000	280.00	.00	49,720.00	.6%
1060032 5602 1043 POWER-PLANT	625,000	0	625,000	351,850.92	.00	273,149.08	56.3%
TOTAL TREATMENT PLANT OPERATION	2,397,281	0	2,397,281	1,035,575.00	.00	1,361,706.00	43.2%
1070021 COLLECTION-MAINTENANCE							
1070021 5001 SUPERVISOR LABOR	141,812	0	141,812	34,205.63	.00	107,606.37	24.1%
1070021 5002 REGULAR LABOR	1,119,501	0	1,119,501	252,284.18	.00	867,216.82	22.5%
1070021 5002 6172 REGULAR LABOR	0	0	0	28,488.79	.00	-28,488.79	100.0%*
1070021 5002 6336 N OAK LANE	0	0	0	1,948.77	.00	-1,948.77	100.0%*
1070021 5002 6362 REGULAR LABOR	0	0	0	53,882.84	.00	-53,882.84	100.0%*
1070021 5002 B5002 REGULAR LABOR	0	0	0	3,358.77	.00	-3,358.77	100.0%*
1070021 5002 B5003 REGULAR LABOR	0	0	0	3,417.67	.00	-3,417.67	100.0%*
1070021 5002 B5004 REGULAR LABOR	0	0	0	3,299.81	.00	-3,299.81	100.0%*
1070021 5003 OVERTIME LABOR	30,000	0	30,000	12,192.96	.00	17,807.04	40.6%
1070021 5006 VACATION	0	0	0	18,396.16	.00	-18,396.16	100.0%*
1070021 5007 SICK	0	0	0	29,002.67	.00	-29,002.67	100.0%*
1070021 5008 PERSONAL	0	0	0	4,379.51	.00	-4,379.51	100.0%*
1070021 5009 JURY/CIVIL/VOLUNTE	0	0	0	268.08	.00	-268.08	100.0%*
1070021 5010 HOLIDAY	0	0	0	24,269.54	.00	-24,269.54	100.0%*
1070021 5101 FICA EXPENSE	79,442	0	79,442	28,222.06	.00	51,219.94	35.5%
1070021 5101 6172 FICA EXPENSE	0	0	0	1,766.32	.00	-1,766.32	100.0%*
1070021 5102 MEDICARE EXPENSE	18,579	0	18,579	6,600.18	.00	11,978.82	35.5%

UNIVERSITY AREA JOINT AUTHORITY

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1070021 5102 6172 MEDICARE EXPEN	0	0	0	413.10	.00	-413.10	100.0%*
1070021 5202 GROUP HEALTH INSUR	356,344	0	356,344	102,552.21	.00	253,791.79	28.8%
1070021 5202 6172 GROUP HEALTH I	0	0	0	8,175.93	.00	-8,175.93	100.0%*
1070021 5203 PENSION (401) UAJA	70,157	0	70,157	32,672.43	.00	37,484.57	46.6%
1070021 5203 6172 PENSION (401)	0	0	0	2,055.09	.00	-2,055.09	100.0%*
1070021 5305 SMALL EQUIPMT/TOOL	20,000	0	20,000	4,218.87	.00	15,781.13	21.1%
1070021 5504 SEWER LINE MAINTEN	100,000	0	100,000	63,959.23	.00	36,040.77	64.0%
1070021 6385 GIS AND MAPPING	63,000	0	63,000	15,874.57	.00	47,125.43	25.2%
1070021 ER01 RENTAL OF EQUIPMEN	1,000	0	1,000	220.00	.00	780.00	22.0%
1070021 ER14 RENTAL LOWBOY	5,000	0	5,000	.00	.00	5,000.00	.0%
1070021 PV01 TRENCH PAVING-CONT	20,000	0	20,000	.00	.00	20,000.00	.0%
TOTAL COLLECTION-MAINTENANCE	2,024,835	0	2,024,835	736,125.37	.00	1,288,709.63	36.4%
1070022 CONSTRUCT EQUIP MAINTENANCE							
1070022 5501 SMALL EQUIPMENT MA	8,000	0	8,000	2,620.03	.00	5,379.97	32.8%
1070022 5506 LG. CONSTRC. EQUIP	80,000	0	80,000	20,039.27	.00	59,960.73	25.0%
TOTAL CONSTRUCT EQUIP MAINTENANCE	88,000	0	88,000	22,659.30	.00	65,340.70	25.7%
1070034 COLLECTION-INSPECTION							
1070034 5001 SUPERVISOR LABOR	141,812	0	141,812	34,205.77	.00	107,606.23	24.1%
1070034 5002 REGULAR LABOR	230,740	0	230,740	70,506.86	.00	160,233.14	30.6%
1070034 5002 B5481 REGULAR LABOR	0	0	0	108.00	.00	-108.00	100.0%*
1070034 5002 B5485 REGULAR LABOR	0	0	0	1,314.00	.00	-1,314.00	100.0%*
1070034 5002 B5488 REGULAR LABOR	0	0	0	288.00	.00	-288.00	100.0%*
1070034 5003 OVERTIME LABOR	11,000	0	11,000	4,604.81	.00	6,395.19	41.9%
1070034 5006 VACATION	0	0	0	4,285.05	.00	-4,285.05	100.0%*
1070034 5007 SICK	0	0	0	3,094.12	.00	-3,094.12	100.0%*
1070034 5008 PERSONAL	0	0	0	2,783.54	.00	-2,783.54	100.0%*
1070034 5009 JURY/CIVIL/VOLUNTE	0	0	0	290.64	.00	-290.64	100.0%*
1070034 5010 HOLIDAY	0	0	0	5,394.68	.00	-5,394.68	100.0%*
1070034 5101 FICA EXPENSE	23,750	0	23,750	8,499.77	.00	15,250.23	35.8%
1070034 5102 MEDICARE EXPENSE	5,555	0	5,555	1,987.80	.00	3,567.20	35.8%
1070034 5202 GROUP HEALTH INSUR	53,340	0	53,340	25,013.83	.00	28,326.17	46.9%
1070034 5203 PENSION (401) UAJA	25,719	0	25,719	10,919.45	.00	14,799.55	42.5%
1070034 5304 OPERATIONAL SUPPLI	4,000	0	4,000	1,878.27	.00	2,121.73	47.0%
1070034 5305 SMALL EQUIPMT/TOOL	500	0	500	9.19	.00	490.81	1.8%

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

ACCOUNTS FOR: 10 OPERATING FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
1070034 5507 SEWER LINE INSPEC/	0	0	0	380.32	.00	-380.32	100.0%*
1070034 5507 B5481 INSPECTION EN	0	0	0	650.00	.00	-650.00	100.0%*
1070034 5507 B5487 INSPECTION EN	0	0	0	650.00	.00	-650.00	100.0%*
1070034 5507 B5488 INSPECTION EN	0	0	0	200.63	.00	-200.63	100.0%*
TOTAL COLLECTION-INSPECTION	496,416	0	496,416	177,064.73	.00	319,351.27	35.7%
1070036 COLLECTION-PUMP STATION							
1070036 5305 SMALL EQUIPMT/TOOL	1,000	0	1,000	.00	.00	1,000.00	.0%
1070036 5501 EQUIPMENT MAINTENA	20,000	0	20,000	1,788.34	.00	18,211.66	8.9%
1070036 5505 O & M PUMP STATION	70,000	0	70,000	19,917.31	.00	50,082.69	28.5%
1070036 5505 B5002 O & M CLASTER	300	0	300	.00	.00	300.00	.0%
1070036 5505 B5003 O & M NORTH M	300	0	300	.00	.00	300.00	.0%
1070036 5505 B5004 O & M SOUTH M	300	0	300	.00	.00	300.00	.0%
1070036 5602 POWER	62,000	0	62,000	18,342.76	.00	43,657.24	29.6%
1070036 5602 B5002 POWER-CLASTER	500	0	500	43.85	.00	456.15	8.8%
1070036 5602 B5004 POWER-SOUTH M	500	0	500	52.15	.00	447.85	10.4%
1070036 5603 PUMP STATION PROPA	3,000	0	3,000	703.45	.00	2,296.55	23.4%
TOTAL COLLECTION-PUMP STATION	157,900	0	157,900	40,847.86	.00	117,052.14	25.9%
TOTAL OPERATING FUND	26,164,342	0	26,164,342	2,669,066.44	.00	23,495,275.56	10.2%
TOTAL REVENUES	-18,478,166	0	-18,478,166	-4,610,781.44	.00	-13,867,384.56	
TOTAL EXPENSES	44,642,508	0	44,642,508	7,279,847.88	.00	37,362,660.12	

YEAR-TO-DATE BUDGET REPORT

FOR 2023 05

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
GRAND TOTAL	26,164,342	0	26,164,342	2,669,066.44	.00	23,495,275.56	10.2%

** END OF REPORT - Generated by Sierra Weight **

UNIVERSITY AREA JOINT AUTHORITY

To: UAJA Board
From: Jason Brown
Re: Financial Report - End of May 2023

Cash Accounts		
General Checking	$293,872.53	
Payroll Checking	$189,830.87	
PLIGIT Checking	$1,572.29	
Petty Cash	$79.90	
Revenue Fund Accounts		
Revenue Sweep	$204,617.19	
Revenue Trustee	$2,671,924.32	
Savings Accounts		
PLIGIT Plus	$8,783.43	
93 BRIF	$2,013,412.22	
Emmaus BRIF	$0.00	
TOTAL LIQUID ASSETS		**$5,384,092.75**
Dedicated Accounts		
2015 DSF	$239.53	
2017A DSF	$164.38	
2017 B & C DSF	$806.94	
2018 DSF	$310.60	
2020 DSF	$6,534.35	
2020A DSF	$3.61	
2021 DSF	$4.40	
2021A DSF	$1,016.67	
2022 DSF	$4,793.80	
2020A Construction Fund	$3,230,518.71	
2021 Construction Fund	$8,819,572.75	
2020A Capitalized Interest Fund	$0.41	
2021 Capitalized Interest Fund	$0.33	
TOTAL DEDICATED ASSETS		**$12,063,966.48**
Restricted Accounts		
93 Oper. Expense Reserve	$308,343.51	
93 Debt Service Reserve	$6,715,057.20	
		$7,023,400.71
Receivables Outstanding		
UAJA Sewer	$225,406.82	
UAJA Surcharge	$10,036.00	
Borough Sewer	$1,289,251.03	
PGM Sewer	$10,374.50	
PSU Sewer	$0.00	
TOTAL OUTSTANDING		**$1,535,068.35**

UNIVERSITY AREA JOINT AUTHORITY

1576 Spring Valley Road
State College, PA 16801

SUPERINTENDENT'S REPORT

For the month of May 2023
Andrew Breon, Superintendent

PLANT OPERATION

The facility is operating well. The 12-month rolling average effluent flow for May was 3.67 MGD with the average for the month being 3.06 MGD. The average monthly influent flow was 4.65 MGD.

On-line treatment units: primary clarifiers #1, #2, and #6; aeration basins #2 and #3; secondary clarifiers #1, #3 and #4, and eight tertiary filters.

Distribution Data

	May	Year to date gallons
Best Western Hotel	32,000	161,000
Centre Hills Golf	7,227,000	10,764,000
Stewart Drive	0	0
Collections Maintenance Garage	2,000	9,000
CINTAS	640,000	2,966,000
Red Line	688,000	2,488,000
Plant site	4,650,000	22,347,000
GDK Park vault	21,851,000	143,345,000
Kissinger's Pond	0	8,122,000
Elks	2,763,000	3,365,000
Total Gallons	37,853,000	193,567,000
Plant effluent temperature monthly average	60.2°	
Wetland temperature monthly average	62.7°	

PLANT MAINTENANCE

- Replaced the underground control wiring for Aeration Train #3 wall mixer AM-510.
- Replaced Tertiary Building lighting fixtures.
- Replaced HP-9, the heat pump for the Maintenance Office.
- Replaced the pressure regulating valves for the Utility Water Pumps.
- Replaced RO Feed Pump #3 motor bearings.
- Replaced Compost Agitator #3 hydraulic motor.

UNIVERSITY AREA JOINT AUTHORITY
1576 Spring Valley Road
State College, PA 16801

COMPOST AND SEPTAGE OPERATIONS REPORT
MAY 2023

COMPOST PRODUCTION AND DISTRIBUTION

UNITS IN CU/YDS	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023	MAY 2023
PRODUCTION	4,045	893	718	840	655	753
YTD PRODUCTION	9,910	893	1,611	2,451	3,106	3,859
DISTRIBUTION	147	1,115	840	452	1,150	557
YTD DISTRIBUTION	8,767	1,115	1,955	2,407	3,557	4,113
IMMEDIATE SALE	1,503	1,438	1,491	1,758	1,448	1,546
CURRENTLY IN STORAGE	2,548	2,331	2,331	2,598	2,103	2,299

SEPTAGE OPERATIONS

LBS/SOLIDS

	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023	MAY 2023
PORT MATILDA	1,497	1,030	433	2,631	1,237	1,981
HUSTON TOWNSHIP	534	617	617	300	537	307

TOTAL GALLONS

	DEC 2022	JAN 2023	FEB 2023	MAR 2023	APR 2023	MAY 2023
RESIDENTIAL/COMMERCIAL	2,500	3,200	5,000	5,200	13,800	20,100
PORT MATILDA	18,500	13,000	6,500	17,500	13,000	19,500
HUSTON TOWNSHIP	6,000	6,000	6,000	6,000	6,000	8,000
TOTAL GALLONS	27,000	22,200	17,500	28,700	32,800	47,600

Phone: (814) 238-5361 Fax: (814) 238-1531

UNIVERSITY AREA JOINT AUTHORITY
1576 Spring Valley Road
State College, PA 16801

COLLECTION SYSTEM SUPERINTENDENT'S REPORT

Activities for the month of May 2023
Daren Brown, Superintendent

MAINLINE MAINTENANCE:

New Laterals – 0
Mainline Cleaning – 3,241 ft cleaned/cut with root cutter
Mainline televising – 29,746 ft televised – 90 manholes inspected
Replaced 330'of Mainline (N.Oak Project)
Replaced 400'of Laterals (N.Oak project)
Started sidewalk and curb restoration (N.Oak)
Raised and reset to new elevation 9 castings on Pine Grove Rd. (Paving project)

LIFT STATION MAINTENANCE:

Cleaned (16) wet wells
Had start up on new generator at Scott Rd.

NEXT MONTH PROJECTS:

Mainline replacement(N.Oak)
Continue televising
Flushing Mainlines
Casting adjustments on this years paving projects

INSPECTION: (0)

MAINLINE CONSTRUCTION:

a. Whitehall Regional Park – Waiting on final As-Builts

b. Toftrees West (Mount Nittany Medical Center) 90% Complete

NEW CONNECTIONS:

a.	Single-Family Residential	6	c.	Commercial	0
b.	Multi-Family Residential	0	d	Non-Residential	0

TOTAL 6

PA One-Calls Responded to May 1 thru 31 = 407

Herbert, Rowland & Grubic, Inc.
2568 Park Center Boulevard
State College, PA 16801
814.238.7117
www.hrg-inc.com

CONSULTING ENGINEER'S REPORT

UNIVERSITY AREA JOINT AUTHORITY

HRG Project Number: 001178.0693

June 21, 2023

The following summarizes our recent services performed on behalf of the University Area Joint Authority (Authority):

RETAINER SERVICES (R001178.0693)

- Provided general consulting services.

MEEKS LANE PUMP STATION – ACT 537 PLAN SPECIAL STUDY (R001178.0663)

- Authority staff is reviewing the alternative pump station location near Waddle with Patton Township.

SCOTT ROAD PUMP STATION AND BRISTOL INTERCEPTOR (R001178.0682)

- Emergency generator and automatic transfer switch start-up/testing was completed on May 30th and 31st. A substantial completion inspection is scheduled for June 19th at 10 am.
- The General Contractor is completing final punch list items.
- There was one application for payment submitted this month. The following table summarizes current applications for payment.

SCOTT ROAD PUMP STATION UPGRADE SUMMARY OF APPLICATIONS FOR PAYMENT					
Contract No.	Application for Payment No.	Amount Due	Current Contract Price	Total Completed and Stored	Balance to Finish Plus Retainage
2021-03	--	$0.00	$515,303.23	$515,303.23	$26,850.00
2021-04	11	$10,868.00	$262,972.92	$251,077.92	$24,448.90

- Both Contractors have submitted time extension requests. Justifying documentation is being compiled and reviewed.

BOROUGH OF STATE COLLEGE ACT 537 SPECIAL STUDY IMPACT REVIEW (P001178.0717)

- HRG is available to assist with further analysis, if necessary.
- Flow data is being reviewed as it is collected.

PERSIA PUMP STATION EVALUATION (P001178.0724)

- An Engineering Services Proposal is being prepared for the evaluation of the Persia Pump Station.

DEVELOPER PLAN REVIEWS:

- Rhodes Lane Condominium (R001178.0722): Design plans were recommended for approval on May 15, 2023.
- Whitehall Road Regional Park Phase 1 (R001178.0723): As-built plans were reviewed, and comments were submitted to the Developer's Engineer on June 6, 2023.

HERBERT, ROWLAND & GRUBIC, INC.

Benjamin R. Burns, P.E.
Team Leader | Water & Wastewater

P:\0011\001178_0693\Ph 01 Meeting Attendance\HRG Board Reports\2023\HRG 06-21.docx

RETTEW
We answer to you.
330 Innovation Boulevard, Suite 104, State College, PA 16803 ● Phone: (800) 738-8395
E-mail: rettew@rettew.com ● Website: rettew.com

University Area Joint Authority
Summation of Project Activities

June 2023

WWTP NPDES Permit – Phosphorus Study (094612027)

- Continuous in-stream monitoring of Spring Creek wrapped up at the end of October. We are compiling data for review with DEP.

Phosphorus Study Project Schedule

Milestone	Date
Complete stream monitoring and compile data	November – December 2022
Review final data with PADEP	TBD Awaiting Feedback
Conduct High Temperature/Low Flow Monitoring if needed	TBD

Ozone Disinfection for Effluent (094612023)

- The ozone injection skids have been delivered and set into place and the General Contractor has been installing process piping. The remaining equipment will arrive on site in mid-July with equipment start-ups beginning shortly thereafter.
- All three contractors have been notified of the exceedance of contract time. The General Contractor has been requested to provide documentation of the cause of the delay and actions taken to minimize the impacts.

Payment Requests To Date

Contract Number	Application for Payment #	Current Payment Due	Contract Price To Date incld/CO	Total Work To Date	% Monetarily Complete	Balance of Contract Amount
2021-05 GC	12	$676,143.96	$5,448,000.00	$4,578,989.15	84.05%	$1,099,692.27
2021-06 EC			$350,000.00	$216,550.00	61.87%	$144,277.50
2021-07 MC	7	$4,154.91	$223,000.00	$199,010.00	89.24%	$33,940.50
		$680,298.87	$6,021,000.00	$4,994,549.15	82.95%	$1,026,450.85

Contract 2021-05 (PSI) has submitted Application for Payment No. 12 in the amount of $676,143.96. We recommend payment in the amount of $676,143.96. Contract 2021-06 (PSI) did not submit an application for this month. Contract 2021-07 (McClure) has submitted Application for Payment No. 7 in the amount of $4,154.91. We recommend payment in the amount of $4,154.91.

Ozone Disinfection for Effluent Project Schedule

Milestone	Date
Notice to Proceed Issued	12/27/2021
Substantial Completion	03/27/2023
Projected Substantial Completion Date (per Contractor)	09/05/2023

Anaerobic Digestion Project (094612026)

- Project is now live on the PennBid website.
- We are addressing request for information/clarifications submitted by potential bidders.
- Bids are scheduled to be opened Wednesday, August 9th at 1:00 PM.

Anaerobic Digestion Project Schedule

Milestone	Date
Updated Biogas Term Sheets and Biosolids Agreements to Stakeholders	Week of December 12th
Submission of Land Development Plan	May 19, 2023
Submission of Building Permit Application	Week of July 10th
Complete Bidding Documents/Advertise for Bids	Week of June 5th
(Likely) CFA Meeting Grant Announcement/Bid Award	July 18, 2023
Bids Due for Construction	August 7, 2023
Begin Construction	September 2023
Complete Construction	December 2024

Modifications to GD Kissinger Meadow Stream Augmentation

- The Authority's pending NPDES permit for the discharge of beneficial reuse water to Slab Cabin Run requires a series of modifications in control and monitoring. The changes will require modulation of the flows to the stream via SCADA, to avoid abrupt changes in stream flow. Additionally, we anticipate essentially a non-detect chlorine limit which will require de-chlorination prior to stream discharge. We are working with staff to design, permit, and implement these modifications.

UNIVERSITY AREA JOINT AUTHORITY
1576 Spring Valley Road
State College, PA 16801

EXECUTIVE DIRECTOR'S REPORT

June 21, 2023

INFORMATION ITEMS

State College Borough Delinquency

The unpaid balance for the State College Borough is $1,289,251.03. This amount includes penalties.

ACTION ITEMS

3. Public Comment

3.1 Other items not on the agenda

4. Old Business

4.1 Recommendation of the Rate Subcommittee – RFP for Rate Study

The Rate Subcommittee has prepared a Request for Proposals (RFP) for a rate study. The rate study was recommended in the conclusions of the report prepared by the subcommittee in 2022. The complete RFP package is included in the agenda report.

This study was not included in the 2023 budget, so once the proposals are received, the Board will need to amend the budget for the work to proceed in 2023.

Recommendation: Authorize staff to advertise the RFP.

5. New Business

5.1 Final Design: Rhodes Lane Condominium

Final design drawings for the Rhodes Lane Condominium sewer extension (College Township) have been received and reviewed by staff and our consulting engineer. The sewer extension will serve 5 EDUs. The review comments have been addressed.

Recommendation: Approve the drawings as submitted.

5.2 Requisitions

BRIF #772	HRG, Inc. Scott Road Project	$2,737.50
BRIF #773	HON Company Office Upgrade	$443.04
BRIF #774	Lake Chevrolet New Truck Caps	$6,230.00
BRIF #775	S & C Operations N. Oak Lane West Project	$6,513.75

BRIF #776	L/B Water Service N. Oak Lane West Project	$1,652.55
BRIF #777	Glossner's Concrete N. Oak Lane West Project	$1,144.50
BRIF #778	Applied Control Engineering SCADA Upgrades	$1,585.00
BRIF #779	Geiger Pump & Equipment Tank Diffusers	$49,140.00
BRIF #780	Westmoreland Electrical Services Scott Road Project- Pay App. #11	$10,868.00
TOTAL BRIF-		**$80,314.34**
Construction Fund #086	Rettew Ozone Disinfection Project	$2,282.25
Construction Fund #087	Rettew Solids Drying Project	$25,248.58
Construction Fund #088	PSI Pumping Solutions Ozone Disinfection Project Pay App. #12 (G)	$676,143.96
Construction Fund #089	McClure Company Ozone Disinfection Project Pay App. #7 (M)	$4,154.91
TOTAL 2020 A CONSTRUCTION FUND-		**$707,829.70**
Revenue Fund #197	Debt Service, Operation and Maintenance Expenses	$1,000,000.00
TOTAL REVENUE FUND-		**$1,000,000.00**

6. Reports of Officers

7. Other Business

8. Adjournment

Draft Letter to Prospective Consultants

The University Area Joint Authority (UAJA) Board of Directors invites your firm to respond to a request for proposals to provide a rate study. The UAJA is a multi-municipal operating authority that provides sewer conveyance and treatment to five municipalities in Centre County, PA.
Web site is UAJA – University Area Joint Authority
A Request for Proposals (RFP) is included along with relevant background information for your consideration in determining your firm's interest in responding to the RFP.

Submission and Review Process

- Interested invited firms should respond to this invitation by 4 o'clock p.m., July 7, 2023 to Mark Kunkle, Chair, Rate Study Subcommittee at baserunner72@gmail.com and Cory Milller, UAJA Executive Director at crmiller@uaja.org. Invited firms that fail to respond by this deadline will be removed from consideration for this RFP.
- Responding firms will be invited to attend a pre-submission meeting that will be held at the UAJA Board meeting room on July 18, 2023. Participants may attend in-person, virtually, or both. The purpose of this meeting is to provide responding firms an opportunity to clarify the scope of services, understand the desired outcome and review and selection process.
- Submissions to the RFP will be due by 4 o'clock p.m. August 8, 2023. Submissions must be received both electronically and in hard copy in accordance with the RFP. A total of 10 hard copies of the submission shall be received at the University Area Joint Authority 1576 Spring Valley Road State College, PA 16801.
- Submissions will be reviewed by the Rate Study Sub-Committee. A short list of firms will be developed for interview which will be offered in person and virtually.
- The short-listed firms will be evaluated and a recommendation for a selected firm will be provided to the UAJA Board of Directors for final contract approval.

On behalf of the UAJA Board of Directors and staff thank you for considering responding to the RFP for this study.

UNIVERSITY AREA JOINT AUTHORITY (UAJA), CENTRE COUNTY RATE STUDY REQUEST FOR PROPOSAL

CONSULTANT PROPOSALS SUBMITTED TO AND ADDRESSED:
All proposals submitted to the University Area Joint Authority shall be marked **"Sewer Rate Study Proposal"** and addressed as prescribed below:
University Area Joint Authority
ATTN: Mr. Cory Miller, Executive Director
1576 Spring Valley Rd, State College, PA 16801

SUBMISSION DEADLINE: _August 8, 2023 at 4:00 p.m.
 Late submissions - Any proposal received at the place designated in this RFP after the time specified for receipt will not be accepted or considered.

OVERVIEW: Consultant proposals are being accepted by the University Area Joint Authority, Centre County, PA for the completion of a Sewer Rate Study for the Authority's sanitary sewer system and treatment facility. The project will involve a review of the Authority's existing sewer rate methodology. The study will evaluate and recommend two potential sewer rate methodologies as follows:

A. Equivalent Dwelling Unit Methodology Considerations:

- Review of existing Rate Resolution uses and EDU assignment for residential and non-residential uses.
- Criteria used to establish EDU assignments for various existing and future residential and nonresidential uses, and additional uses that should be added.
- Proposed rate analysis that assures Authority that the projected income will meet budget needs for operation and capital costs going forward for the next 10 years.

B. Hybrid Equivalent Dwelling Unit/Volumetric Considerations:

- Evaluation of available water use data which will be used to develop suggested rate methodology for residential and commercial uses. For example there could be a base monthly or quarterly charge plus water usage. The Consultant should make any other hybrid recommendations that they feel are appropriate.

- Proposed rate analysis that assures Authority that the projected income will meet budget needs for operation and capital costs going forward for the next 10 years.
- Analysis and recommendation as to whether UAJA should contract with State College Borough Water Authority and College Township Water Authority to do billing for UAJA or should UAJA do their own billing.

C. Billing Process Analysis. Analysis and recommendation as to whether UAJA should contract with State College Borough Water Authority and College Township Water Authority to do billing for UAJA or should UAJA do their own billing.

BACKGROUND: The University Area Joint Authority (UAJA) operates a sanitary sewer system that services all properties in the Authority's Sewer Service Area. The Authority provides conveyance and treatment of wastewater from the Townships of College, Ferguson, Harris and Patton and conveyance by main lines of wastewater from State College Borough and portions of Penn State University. Formed in 1964 the Authority has grown from a 3.0 mgd treatment facility to 6.0 mgd treatment facility. In addition, the UAJA has constructed an advanced wastewater treatment system called Beneficial Reuse which has increased the treatment capacity to approximately 10MGD. The University Area Joint Authority is a recognized leader in management of wastewater for a growing community and has embraced sustainability and a forward-thinking approach to wastewater management on a Watershed scale. All wastewater generated is collected and conveyed to the UAJA treatment facility in Benner Township.

KEY PERSONNEL

- Cory Miller - Authority Executive Director
- Jason Brown - Assistant Authority Executive Director
- Benjamin R. Burns, P.E., HRG - Authority Engineer
- David Lapinski, Chair, Authority Board of Directors

CONTRACT TERM Term of this contract shall be for a period of six (6)

months from the date of acceptance by Authority Board.

SCOPE OF SERVICES The following are a list of services that are expected to be performed by the Consultant:

- Conduct a review of all financial information related to the Authority sanitary sewer system, including, but not limited to, financial statements, operating budgets, debt schedules, and service agreements.
- Prepare projected cash flow statements under present rates and alternative rates structures incorporating anticipated capital improvements.
- Conduct evaluation of current EDU table. Compare current table to industry standards for similar EDU tables. Update listed uses. Recommend any changes to current table.
- Conduct a review of available water usage data, cost of data acquisition, ability/feasibility to transfer water usage data for use in current or customized billing system.
- Utilize existing/current rate study for base information.
- Design alternative rate methodologies, taking into account sewer system revenue requirements and calculating the impact on various classes of customers.
- Preparation of projected cash flow statements under the selected rate structure/methodology.
- Develop a financial rate model determining required and projected rates through the study period.
- Attend meetings virtually **(anticipate 3 meetings with Sub-Committee and one meeting with full Authority Board)** of the Authority Board and/or Rate Study Sub-Committee in order to review the study findings prior to preparing any draft report.
- Present the final report at a meeting of the UAJA Board when requested.

INSTRUCTIONS FOR CONSULTANT Submissions should be prepared in the following manner:

 Summary

- Table of Contents
- Letter of Transmittal
- Company Profile
- Qualifications and Experience
- Understanding of Scope of Services
- Pricing
- References (preferably in the local government or non-profit sector) that have been completed in the last three (3) years and are of similar size and makeup as UAJA.)
- Proof of Insurance

The Authority will not be liable for any costs incurred in the preparation of proposals.

Pricing shall be indicated on a not-to-exceed basis lump sum.

Proposals shall be no longer than 10 to 12 pages.

Consultant will provide 10 hard copies delivered to the University Area Joint Authority ATTN: Mr. Cory Miller, Executive Director
1576 Spring Valley Rd, State College, PA 16801 and one digital copy in pdf format to Mark Kunkle -Email: baserunner72@gmail.com

Each Consultant shall provide certificates of insurance prior to signing a contract with UAJA.

The submission of this proposal shall be prima facie evidence that the Consultant has full knowledge of the scope, nature, quantity, and quality of the work to be performed, the detailed requirements of the specifications, and the conditions under which the work is to be performed.

Each Consultant shall be expected to furnish the Authority with additional information as may be reasonably required.

Each Consultant will be required to attend a pre-proposal meeting with the Rate Study Sub-Committee. This attendance can be by a virtual meeting.

SELECTION CRITERIA

Understanding the Problem and Responsiveness to RFP - Proposals will be thoroughly reviewed to ensure that they are complete and accurate and include all required attachments. The Authority will evaluate the proposer's responsiveness in clearly stating an understanding of the work to be performed.
Experience and Qualifications of Firm - Will be judged on the Consultant's technical experience and professional education. Consultant should have experience with municipal and/or non-profit clients.
Qualifications of the Assigned Team The specific team members who will prepare the response to this RFP are expected to have experience working with public and non-profit clients of similar size and complexity. The number of employees assigned to this account, their workload and technical expertise, and communication and response protocols will also factor into this evaluation.
Communications Plan, Delivery of Service – Consultant will be evaluated on the schedule of services provided with the proposal, as well as the consultant's commitment to meeting prescribed deadlines.
Cost - All proposals meeting the above criteria will be ranked according to the least total cost to the Authority. However, the Authority reserves the right to select other than the lowest bidder if the service level available from a higher bidder is viewed as of higher value to the Authority. Payment terms must be amenable to both parties.
References - Preference will be given to similar sized districts

WITHDRAWAL OF PROPOSAL

 Withdrawal of Proposal – Respondents may withdraw any and/or their entire proposal at any time during and after the review and award process, up to the ratification of an agreement between the Authority and the selected proposal.

 Withdrawal of Request for Proposal – The Authority reserves the right at all times to cancel or withdraw this RFP, to refuse to accept a proposal from any respondent, and to modify or amend any portion of this RFP.

CONTRACT DETAILS

A. Retention of Audit Working Papers - The Consultant will retain work-papers and reports for a minimum of seven (7) years from the date of contract commencement.
B. Performance Metrics – The successful Consultant is expected to meet the following performance metrics: completion of reports by specified deadlines, continued communication with representatives of the Authority regarding the project, attendance at required meetings of Authority Board and Rate Study Sub-Committee, and other metrics generally considered standard for individuals working in the field.
C. Fraud, Waste, and Illegal Acts – Consultant are expected to truthfully represent the Authority and their company, utilize material in an efficient manner, and comply with all laws/regulations of the Authority, Commonwealth of Pennsylvania, and the United States of America. Evidence of fraud, waste, or illegal activities will result in immediate termination of the contract.
D. Length of Contract - The initial length of the contract shall be for a period of six (6) months. If the need arises for the contract to be extended, that will be at the discretion of the Authority Board.
E. Subsequent Contracts - If this project is canceled due to inadequate performance, the previous firm must turn over its work papers (or copies) to the newly appointed firm as needed.
F. Cancellation - The Agreement may be canceled at any time upon ninety (90) days written notice by either party without cause. However, if the Consultant fails to comply with any of the terms specified in this proposal, the Authority may terminate this contract without notice.

C. Any questions concerning this RFP should be directed via email to:
Mr. Mark Kunkle
Email: baserunner72@gmail.com

Mr. Kunkle will respond to all questions via email and will copy all other consultants and members of the UAJA Sewer Advisory Committee.

RATE RESOLUTION

WASTEWATER RECYCLING

RATES AND OTHER

CHARGES

1576 Spring Valley Road
State College, PA 16801
(814) 238-5361 FAX (814) 238-1531
www.uaja.com

Section 1

CONNECTION TO COLLECTION SYSTEM

1.1 Building Sewers and Connections

a) No unauthorized person shall uncover, make any connections with or opening into, use, alter, or disturb any public or private sewer or appurtenances without first obtaining a written permit from the Authority.

b) All costs and expenses incidental to the installation and connection of the building sewer shall be the responsibility of the owner. Installation and construction of the building sewer shall be in compliance with the UAJA Standard Specifications then in effect.

1.2 Tapping and Permit Fees

a) The Tapping Fees are as follows:

Capacity Component:	$6327.00	Per EDU
Collection Component Pine Grove Mills	$2214.00	Per EDU
Collection Component Rt 26	$2825.00	Per EDU
Ghaner Pump Station collection	$301.00	Per EDU
Grinder Pump Escrow	$2331.00	Per EDU
Borough of State College Tap Fee	$2575.00	Per EDU
Special Purpose Circleville Inter.Tap Fee	$509.73	Per EDU
Special Purpose Valley Vista Tap Fee	$584.90	Per EDU

Tapping fees are charged at the time the permit is issued. The capacity component is applied to all new connections.

Tapping fees are based on EDU's according to Section 2.

If more than two inspection trips are required because the lateral repeatedly fails inspection, a $50.00 fee shall be charged per inspection trip in excess of two per Rate Resolution 1.2b

b) The Permit Fees are as follows:

Residential:	$150.00
Non-Residential:	$250.00
Repair/Abandonment:	$ 25.00
Water Quality:	$100.00
Water Quality(w/pump station)	$250.00
Private to Private:	$ 50.00

Section 2

WASTEWATER RATES AND OTHER FEES

2.1 General

Wastewater rates and other charges are imposed upon the Owner of each property or entity connected to the wastewater collection system. The rate for wastewater collection & treatment will usually be based upon an **Equivalent Dwelling Unit (EDU)**. Some bulk customers of the Authority, by contract or agreement only, may be charged based upon the **Bulk Treatment Rate** in affect at the time.

2.2 EDU Rate

The rate charged per EDU is One Hundred Eight ($108.00) dollars per quarter. Residents of the Pine Grove Mills service area will be billed One Hundred Eight ($108.00) per quarter plus an additional twenty-two dollars and forty cents ($22.40) for debt service.

2.3 Bulk Treatment Rate

The rate charged per one million gallons treated is Five Thousand Two Hundred and Eighty Seven ($5287.00) dollars.

2.4 Assignment of Equivalent Dwelling Units

An Equivalent Dwelling Unit (EDU) shall apply to each classification of connection as follows:

(a) Residential

Apartment units, each	1
Attached business	
w/o separate sanitary facilities	½
w/ separate sanitary facilities	1
Condominiums	1
Daycare in home per 17.5 Population	1
Duplex / Multi-Plex (per unit)	1
Manufactured (mobile home park)	
Per lateral provided, unless capped	1
Rooming Units/Efficiency, each	½
(A single bed, one room, one bath apartment with no clothes washer)	
Single Family Homes	1
Townhouses, each	1

(b) Commercial

Automobile Dealer, (bays connected to sewer)	
2 bays or less	2
Each additional bay over 2	½
Automobile Dealer/Garage (bays not Connected to sewer)	*

Beauty/Barber shops, per chair	½
Bed & Breakfasts	
up to and including 5 rooms	1.5
6 to 10 rooms	2
Bowling Alleys, per 6 lanes	1 and *
Car Wash (bays connected to sewer)	
2 bays or less	2
Each additional bay over 2	1/2
not connected to sewer	*
Commercial Office Building	1 per Business up to 10 employees *
Fitness Centers,	*
with showers	*
with pool, per filter connected	2 and *
Hospitals per bed	½ and *
Hospital public dining, per 15 seats	1
Hotel/Motel, per room	½
Conference room	1 per 17.5
Restaurant/café seating	1 per 15 seats
Laundromat, per 5 washers	1
Medical Centers,	*
with pools, per filter connected	2
Nursing Homes per bed	½ and *
Nursing Home public dining, /15 seats	1
Personal Care/ Assisted living	½ per living unit and *
Restaurants, per 15 seats	1 and *
Retail food store	*
Each food preparation station	1
Each Bakery	1
Each Bank	1
Each Deli	1
Each Pharmacy	1
Each Photography center	1
Café seating, per 15 seats	1
Retail Stores	*
2 bays or less (if app.)	2
per 15 seats (if app.)	1
Retirement Homes, per unit	1 and *
Retire. Hm. public dining, /15 seats	1
Retire. Hm. industrial washer	1
Veterinary Facilities	*

Shell Buildings, per 3000 sq. ft. (for tapping fee & connection fee only)	1
Billing for Shell building per quarter	1

* 1 EDU for up to each 10 employees
-or-
1 EDU for up to each 8 employees with showers

Example 1: up to 10 employees (no showers) = 1 EDU.

Example 2: 11 employees (no showers) = 1.5 EDU's.

Example 3: up to 8 employees (w/showers) = 1 EDU.

Example 4: 9 employees (w/showers) = 1.5 EDU's.

*** Employees that work off site will not be included in EDU count.**

(c) Industrial and Commercial

Per 10 employees [do not include truck drivers]	1
Per 8 employees with showers [do not include truck drivers]	1
Cooling Tower with drain to sewer (unless volume warrants higher charge)	1

(d) Public

Churches	1
w/daycare per 17.5 student & staff	1
Daycare per 17.5 population	1
Fire Hall, Ambulance	1
Library	1
Private Clubs/Organizations per 15 seats	1
Recreation Field w/sanitary facilities	1
Schools per 17.5 population	1
Swimming Pools	
Per filter connection	2 and
Average Patrons x10(gpd)/175(gpd)	

(e) Miscellaneous

1) Charge to drain pool (pool capacity times current bulk treatment rate–Authority must be notified in advance of draining)

2) Where more than one use occurs on any improved property, the sum of Equivalent Dwelling Units for each separate use will apply in establishing wastewater rates and charges.

3) Additional classifications for wastewater rates and other charges or modifications of the above schedules for wastewater rates and other charges may be established by this Authority from time to time as deemed necessary.

4) Nothing contained herein shall be construed as prohibiting special agreements between this Authority and nonresidential improved properties under conditions and circumstances making special agreements advisable and necessary.

Section 3

INFORMATION REQUIRED

3.1 Addresses

Every owner of an improved property, which is connected to the wastewater collection system, shall provide this Authority with his/her correct mailing address and thereafter shall keep this Authority advised of any address changes. Any changes to the address will only be accepted by the property owner calling the office and speaking to the Account Representative, or sending in written notice of the change. Failure of any property owner to receive bills for wastewater rates and other charges shall not be considered an excuse for nonpayment nor shall such failure result in an extension of the period of time during which the net bill shall be payable or late fees being waived.

Authority rules and regulations specifically require that bills be mailed directly to the owner of record and NOT to a tenant. Any agreement of payment between owner and tenant or bill paying service must be considered a transaction between both parties and in no way concerns this Authority.

3.2 Non-residential yearly reports

Owners of any nonresidential improved property may be responsible for providing this Authority with a yearly report. This report will be used to compute any changes to the wastewater rate or charges to such nonresidential improved property. This information may also be used to compute a surcharge. The report will be due on a yearly basis with the due date being the 10th day of April. If the owner of any nonresidential improved property fails to provide this Authority with complete information required to compute the sewer rate or charge, this Authority may estimate a reasonable applicable wastewater rate or charge for such nonresidential improved property. Such estimated wastewater rate or charge shall be the actual wastewater rate or charge payable until the required information is filed. No rebates will be paid by this Authority if the information filed reveals a lower wastewater rate or charge than that estimated by this Authority. If the resultant rate should be higher than what was estimated, the property owner will be responsible for paying the difference. Industrial users will still be required to send a questionnaire on a quarterly basis.

3.3 Volume surcharges

This Authority reserves the right to impose a volume surcharge and/or to revise the Equivalent Dwelling Unit classification for any improved property discharging domestic and/or industrial wastewater into the wastewater collection system in excess of a total flow of 175 gallons per day, per EDU. The volume surcharge will be based upon the EDU treatment rate currently in place.

Section 4

INVOICING

4.1 Invoicing

Invoicing is done in arrears and will be done according to the following table.

Quarter	Bill mail Date	Due Date
Jan. Feb. Mar.	Mid- April	Mid – May
April May June	Mid – July	Mid - August
July August Sept.	Mid – October	Mid – November
Oct. Nov. Dec.	Mid – January	Mid - February

4.2 Pro-rating

Owners of improved properties that connect to the sewer in the middle of a quarter will be charged from the date of connection. With permission from the University Area Joint Authority, owners of improved properties that disconnect sewer service by plugging the lateral will stop being billed as of the date that UAJA Personnel inspects the disconnection.

4.3 Delinquent payments

If wastewater rates and charges are not paid by provided due date each billing, an additional sum of 10% shall be added to the net bill, which net bill, plus such additional sum, shall constitute the gross bill. Payment made on or mailed and postmarked by the due date will be considered on time. When an account has a delinquent amount of $150.00 or more, the property owner will be sent a certified letter requesting payment in full within 10 days. All costs associated with certified letters will be charged back to the customer's account. If the property owner fails to pay the balance on the account after receiving the certified letter, and it becomes necessary for this Authority to post the property for water termination, a fee of $35.00 will be charged to the property owner's account. At the point of posting, the property owner is notified that the full amount due and owing, together with penalties, interest and legal fees must be paid in full within five (5) days of the notice. In the event the full amount due is not paid, the water utility serving this property shall be directed to discontinue water service to the posted property pursuant to: (1) the Act of 1957, July 10, P.L. 622, as amended and the Act of 1978, November 26, No. 299, as amended. In addition, the property owner will be assessed charges from the Water Utility for termination of service.

4.4 Payments returned by bank

In the event a payment of wastewater charges or other charges rendered by this Authority are returned by a banking institution for any reason, a charge of $37.00 for each instance shall be added on the property owner's account. In the event the banking institution levies a charge against the Authority for processing a returned check, said charge will be levied against the account for which service is being rendered. The Authority may also demand payment of the account by cash, certified check, bank draft, cashier's check, bank/postal money order. The account, which was paid by the returned check, shall be considered delinquent until full payment is rendered.

Section 5

5.1 Liens for Wastewater Rate and Other Charges:

Wastewater rates and other charges imposed by this Rate Resolution shall be a lien on the improved property connected to and served by the wastewater collection system. Any wastewater rates and other charges which are delinquent shall be filed as a lien against the improved property connected to and served by the wastewater collection system. Such liens shall be filed and collected in the manner provided by law for the filing and collection of municipal claims.

Section 6

INDUSTRIAL PRETREATMENT

6.1 UAJA Industrial Pretreatment Program

UAJA is required by the US Environmental Protection Agency to comply with various requirements under the Clean Water Act and Other acts, which impose duties and obligations for controlling industrial users, also known as an Industrial Pretreatment Program. In order to perform the duties required in administering an Industrial Pretreatment Program, UAJA has the legal authority to perform inspections and sampling, issue permits and orders, collect permit fees, require reporting and record keeping, control rates and quantities of discharges, require that certain discharges be held, seek equitable relief, and impose penalties and fees as deemed appropriate.

6.2 Prohibited Wastes

(a) No person shall discharge or cause to be discharged any storm water, surface water, spring water, ground water, roof runoff, subsurface drainage, building foundation drainage, cellar drainage, drainage from roof leader connections, uncontaminated cooling water, HVAC or other uncontaminated condensate drainage, or unpolluted process waters into any Sewer.

(b) This Authority reserves the right to refuse permission to connect to the Sewage Collection System, to compel discontinuance of use of the Sewage Collection System or the Sewage Disposal System, or to compel pretreatment of Industrial wastes by any Industrial Establishment, in order to comply with provisions of the Service Agreement and to prevent discharge deemed harmful or to have a deleterious effect upon any Sewer, the Sewage Collection System or the Sewage disposal System.

(c) No Sanitary Sewage or Industrial Wastes shall be discharged to the Sewage Collection System:

1) Having a temperature higher than 150°F.

2) Containing more than 100 ppm of fats, wax, tar, oil and/or grease, whether emulsified or not, or containing substances which may solidify or become viscous at temperature between 32° F and 150°F.

3) Containing any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquids, solids or gases.

4) Containing any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, cloths, feathers, tar, plastics, wood, paunch manure, whole blood, hair, fleshings, entrails, cotton, wool or other fibers, paper dishes, cups or milk containers, either whole or ground by garbage grinders, or any other solid or viscous substances capable of causing obstructions or other interferences with property operation of the Sewage Collection System or Sewers or the Sewage Disposal System.

5) Having a pH lower than 6.0 or higher than 10; being corrosive; or having any other property capable of causing damage or hazards to structures, equipment or operating personnel of the Sewage Collection System, Sewers or the Sewage Disposal System.

6) Containing toxic or poisonous solids, liquids or gases in sufficient quantity either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, to constitute hazards to humans or animals or to create any hazard in waters which receive treated effluent from the Sewage Disposal System. Toxic wastes shall include, but not by way of limitation, wastes containing cyanide, chromium, copper, cadmium, nickel, and/or mercury ions.

7) Sludge, water, solids or other materials pumped from septic tanks.

8) Any waters or wastes containing strong acid iron pickling wastes or concentrated plating solutions, whether neutralized or not.

9) Materials which exert or cause:
   a) unusual concentrations of inert suspended solids (such as, but not limited to, Fullers earth, lime slurries and lime residues) or of dissolved solids (such as, but not limited to, sodium chloride and sodium sulfate);
   b) excessive discoloration (such as, but not limited to, dye wastes and vegetable tanning solutions);
   c) unusual B.O.D., chemical oxygen demand or chlorine requirements in such quantities as to constitute a significant load on the Sewage Disposal System; or
   d) unusual volume of flow or concentration of wastes constituting slugs.

10) Containing radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Authority.

11) Notwithstanding the above provisions, any waste containing phenols or any other substance or having other characteristics which are prohibited by the Authority.

(d) In addition, no commercial entity shall discharge any waste exceeding the following Default Concentration Limits unless they have been granted an Industrial Wastewater Discharge Permit, a Local Limits Waiver, or a Conditional Waiver within the previous 24 months.

DEFAULT CONCETRATION LIMITS FOR INDUSTRIAL USERS

Pollutant	Default IU Limit	Units
Arsenic	0.032	mg/l
Cadmium	0.0026	mg/l
Copper	0.60	mg/l
Cyanide	0.054	mg/l
Hexavalent Chromium	0.18	mg/l
Lead	0.066	mg/l
Mercury	0.00050	mg/l
Methylene Chloride	0.20	mg/l
Molybdenum	0.054	mg/l
Nickel	0.29	mg/l
Selenium	0.032	mg/l
Silver	0.10	mg/l
Thallium	0.010	mg/l
Zinc	0.60	mg/l

Any user unsure of whether their discharge exceeds these limits shall contact UAJA to obtain an Application for a Local Limits Waiver. This Application will be evaluated to determine whether there is a significant risk of exceeding these parameters based on the types of processes and other possible sources of pollution at that site.

However, knowingly exceeding any of these limits without written permission of the Authority is prohibited.

(e) Where necessary all Owners shall install suitable pre-treatment facilities in order to comply with subsections (c) and (d) of this Section. Plans, specifications and any other pertinent information relating to proposed facilities for preliminary treatment and handling of wastes shall be submitted for approval of this Authority and no construction of any such facility shall be commenced until approval thereof first shall have been obtained, in writing, from this Authority, and until approval thereof first

shall have been obtained from any governmental regulatory body having jurisdiction. Whenever facilities for preliminary treatment and handling of wastes shall have been provided by any Owner, such facilities continuously shall be maintained, at the expense of such Owner, in satisfactory operating condition; and this Authority shall have access to such facilities at reasonable times for purposes of inspection and testing.

(f) No person shall install or operate in any Improved Property connected to the Sewage Collection System any garbage grinder equipped with a motor of ¾ horsepower or greater, without prior written approval of this Authority.

(g) Nothing contained in this Section 5 shall be construed as prohibiting any special agreement or arrangement between this Authority and any person whereby Industrial Wastes of unusual strength or character may be admitted into the Sewage Collection System owned by this Authority, either before or after preliminary treatment.

6.3 Industrial waste permitting

a) Industrial users proposing to connect to or discharge to the wastewater collection/treatment facility may be required to obtain a Wastewater Discharge Permit before connecting to the wastewater collection/treatment facility.

b) The Authority may establish a system of rates and charges for implementation of the Industrial Pretreatment Program, which shall be applicable to industrial users within its service area. Rates and charges for implementation of the IPP may be changed from time to time by resolution, subject to approval by the Board of the UAJA.

6.4 Industrial wastewater inspections

Monitoring by Authority personnel will be composed of both announced and unannounced inspections and sampling. The frequency of monitoring may vary depending on circumstances as determined by the Authority. All industrial users will be inspected and sampled at least once per year. All inspections will be done in accordance with the guidelines set by the industrial pretreatment program in effect. Whenever facilities for preliminary treatment and handling of wastes shall have been provided by any owner, such facilities continuously shall be maintained, at the expense of the owner, in satisfactory operating condition; and this Authority shall have access to such facilities at reasonable times for purposes of inspection and testing.

6.5 Enforcement

The Authority may take such actions as provided for by applicable law to enforce the provisions of the Industrial Pretreatment Program. Such actions include, but are not limited to the imposition of penalties of up to $25,000.00 per day and seeking injunctive relief under the provisions of the Publicly Owned Treatment Works Penalty Law, 35 P.S. 752.1 *et seq*.

SECTION 7
DEFINITIONS

7.1 Definitions

Unless the context specifically and clearly indicates otherwise, the meaning of terms and phrases in this Resolution shall be as follows:

a) Abandonment Permit – required when service is no longer to be provided. This is the only mechanism that will be used to either reduce EDU's or stop the billing process. Inspection is required for confirmation of completion.

b) Authority - The University Area Joint Authority a Pennsylvania municipal authority, its officers, Board members, employees and agents.

c) Equivalent Dwelling Unit – a unit of measurement that estimates an average use of wastewater facilities. Roughly the average amount of wastewater generated by a typical family in one day.

d) Improved Property - a property upon which there is erected a structure intended for continuous or periodic habitation, occupancy or use by human beings or animals from which structure domestic and/or industrial wastes shall be or may be discharged.

e) Industrial User - an improved property used, in whole or in part, for manufacturing, processing, cleaning, laundering or assembling any product, commodity or article or from which any process waste, as distinct from domestic waste, shall be discharged.

f) Industrial Pretreatment Program -The enforcement of the provisions of the regulations and controls of Industrial Users to the extent required by the federal pretreatment regulations set forth in 40 C.F.R. Part 403 and including similar provisions in ordinances of the contributing Municipalities authorized to be administer by and enforced by this Authority.

g) Industrial Waste: - Any solid, liquid or gaseous substance, or form of energy, which is produced as a result, whether directly or indirectly, of any industrial, manufacturing, trade or business process or activity, or in the course of developing, recovering, or processing of natural resources and which is discharged into the wastewater collection system; but not non-contact cooling water or sanitary sewage. Any wastewater which contains industrial waste and which is discharged from an industrial, manufacturing, trade or business premises is considered industrial waste for the purpose of this Resolution.

h) Non-contact cooling water – the water from any use such as air conditioning, cooling or refrigeration, or to which the only pollutant added is heat.

i) Non-residential - improved properties consisting of commercial, industrial, schools, professional offices, churches, institutions, etc.

j) Owner - any person vested with ownership, legal or equitable, sole or partial, of any improved property.

k) Private to Private Permit – A private to private permit is required when the connection of a detached or accessory use structure (ie: shed, shop, garage, out-building) to the primary use structure (residential) is desired. The definition of "detached" shall be described as a structure on the recorded building lot, with a separate use, that does not share either a common wall, or roof, or foundation with the primary use structure on that building lot. The private to private lateral shall be constructed following the same requirements for the primary building lateral and shall connect to that lateral at a place and in a manner which will allow future maintenance activity to be properly and efficiently conducted. Inspection prior to backfill is required.

l) Repair Permit – a repair permit is required anytime excavation is made to repair or relocate any existing sewer lateral piping anywhere on the property from the building to the property line. Inspection prior to backfill is required.

m) Wastewater – industrial or domestic wastes from dwellings, commercial buildings, industrial facilities, and institutions, together with any groundwater, surface water, and stormwater that may be present, whether treated or untreated, which enters the wastewater collection system.

n) Wastewater Collection System - all facilities, as of any particular time, for collecting, pumping, treating and disposing of domestic and/or industrial wastes, acquired, constructed, owned and operated by this Authority.

SECTION 8

Sewer Tapping Fee Calculations

Exhibit 1a - Summary of Capacity Part Calculations

CAPACITY PART

HISTORICAL TRENDED COSTS

Project Completion Year	Total Historical Cost	Grants	Net Cost	ENR Index		Trend Factor	Trended Cost	Capacity Cost
1967	$ 244,931.00	$ -	$ 244,931.00	1074	10132	9.43	$ 2,310,652.60	$ 2,310,652.60
1968	$ 1,508,256.00	$ 251,600.00	$ 1,256,656.00	1155	10132	8.77	$ 11,023,756.36	$ 11,023,756.36
1969	$ 786,805.00	$ 257,900.00	$ 528,905.00	1269	10132	7.98	$ 4,222,904.22	$ 4,222,904.22
1970	$ 6,509,489.21	$ 886,266.42	$ 5,623,222.79	1381	10132	7.34	$ 41,255,969.09	$ 41,255,969.09
1971	$ 3,656.00	$ -	$ 3,656.00	1581	10132	6.41	$ 23,429.85	$ 23,429.85
1972	$ 1,088.00	$ -	$ 1,088.00	1753	10132	5.78	$ 6,288.43	$ 6,288.43
1974	$ 92,170.00	$ -	$ 92,170.00	2020	10132	5.02	$ 462,310.12	$ 462,310.12
1975	$ 49,531.00	$ -	$ 49,531.00	2212	10132	4.58	$ 226,875.27	$ 226,875.27
1976	$ 108,570.00	$ -	$ 108,570.00	2401	10132	4.22	$ 458,155.45	$ 458,155.45
1977	$ 14,975.00	$ -	$ 14,975.00	2576	10132	3.93	$ 58,900.12	$ 58,900.12
1978	$ 18,575.00	$ -	$ 18,575.00	2776	10132	3.65	$ 67,796.07	$ 67,796.07
1979	$ 183,793.00	$ -	$ 183,793.00	3003	10132	3.37	$ 620,110.12	$ 620,110.12
1980	$ 143,207.00	$ -	$ 143,207.00	3237	10132	3.13	$ 448,246.32	$ 448,246.32
1981	$ 6,815.00	$ -	$ 6,815.00	3535	10132	2.87	$ 19,533.12	$ 19,533.12
1982	$ 99.00	$ -	$ 99.00	3825	10132	2.65	$ 262.24	$ 262.24
1983	$ 1,055.00	$ -	$ 1,055.00	4066	10132	2.49	$ 2,628.94	$ 2,628.94
1984	$ 4,736.00	$ -	$ 4,736.00	4146	10132	2.44	$ 11,573.84	$ 11,573.84
1985	$ 95,971.00	$ -	$ 95,971.00	4195	10132	2.42	$ 231,794.56	$ 231,794.56

1986	$ 169,656.00	$ -	$ 169,656.00	4295	10132	2.36	$ 400,222.26	$ 400,222.26
1987	$ 232,802.00	$ -	$ 232,802.00	4406	10132	2.30	$ 535,349.49	$ 535,349.49
1988	$ 736,093.00	$ -	$ 736,093.00	4519	10132	2.24	$ 1,650,385.99	$ 1,650,385.99
1989	$ 981,229.00	$ -	$ 981,229.00	4615	10132	2.20	$ 2,154,238.84	$ 2,154,238.84
1990	$ 8,091,034.00	$ -	$ 8,091,034.00	4732	10132	2.14	$ 17,324,251.16	$ 17,324,251.16
1991	$ 18,019,993.00	$ -	$ 18,019,993.00	4835	10132	2.10	$ 37,761,855.03	$ 37,761,855.03
1992	$ 5,933,112.00	$ -	$ 5,933,112.00	4985	10132	2.03	$ 12,059,035.26	$ 12,059,035.26
1993	$ 1,117,936.00	$ -	$ 1,117,936.00	5210	10132	1.94	$ 2,174,074.39	$ 2,174,074.39
1994	$ 456,565.00	$ -	$ 456,565.00	5408	10132	1.87	$ 855,383.98	$ 855,383.98
1995	$ 411,257.00	$ -	$ 411,257.00	5471	10132	1.85	$ 761,626.01	$ 761,626.01
1996	$ 106,350.00	$ -	$ 106,350.00	5620	10132	1.80	$ 191,732.78	$ 191,732.78
1997	$ 296,887.00	$ -	$ 296,887.00	5826	10132	1.74	$ 516,316.35	$ 516,316.35
1998	$ 1,631,664.00	$ -	$ 1,631,664.00	5920	10132	1.71	$ 2,792,570.89	$ 2,792,570.89
1999	$ 1,714,730.00	$ 260,000.00	$ 1,454,730.00	6059	10132	1.67	$ 2,432,633.17	$ 2,432,633.17
2000	$ 2,752,597.00	$ -	$ 2,752,597.00	6221	10132	1.63	$ 4,483,091.59	$ 4,483,091.59
2001	$ 3,609,790.00	$ 105,000.00	$ 3,504,790.00	6343	10132	1.60	$ 5,598,381.25	$ 5,598,381.25
2002	$ 12,444,054.00	$ -	$ 12,444,054.00	6538	10132	1.55	$ 19,284,667.35	$ 19,284,667.35
2003	$ 16,854,836.00	$ -	$ 16,854,836.00	6694	10132	1.51	$ 25,511,383.08	$ 25,511,383.08
2004	$ 16,266,860.13	$ -	$ 16,266,860.13	7129	10132	1.42	$ 23,119,066.75	$ 23,119,066.75
2006	$ 62,320.00	$ -	$ 62,320.00	7751	10132	1.31	$ 81,463.84	$ 81,463.84
2007	$ 1,858,303.00	$ -	$ 1,858,303.00	7967	10132	1.27	$ 2,363,289.32	$ 2,363,289.32
2008	$ 5,395,900.20	$ -	$ 5,395,900.20	8310	10132	1.22	$ 6,578,972.42	$ 6,578,972.42
2009	$ 77,500.00	$ -	$ 77,500.00	8570	10132	1.18	$ 91,625.44	$ 91,625.44
2010	$ 68,140.00	$ -	$ 68,140.00	8802	10132	1.15	$ 78,436.09	$ 78,436.09
2011	$ 396,061.86	$ 100,000.00	$ 296,061.86	9070	10132	1.12	$ 330,727.54	$ 330,727.54
2012	$ 1,638,099.00	$ -	$ 1,638,099.00	9308	10132	1.09	$ 1,783,113.35	$ 1,783,113.35
2013	$ 236,875.00	$ -	$ 236,875.00	9547	10132	1.06	$ 251,389.70	$ 251,389.70
2014	$ 205,871.84	$ -	$ 205,871.84	9806	10132	1.03	$ 212,716.04	$ 212,716.04
2015	$ 7,528,858.00	$ 25,000.00	$ 7,503,858.00	10034	10132	1.01	$ 7,577,146.63	$ 7,577,146.63
Total Historical & Trended Cost	*$ 119,069,096.24*	*$ 1,885,766.42*	*$ 117,183,329.82*				*$ 240,406,332.70*	*$ 240,406,332.70*

Total Capacity Costs (Historical)		$ 240,406,332.70
Less Outstanding Debt Related to Facilities		$ 75,436,404.74
Total Trended Adjusted Cost		**$ 164,969,927.96**
CAPACITY PART		
Capacity (Gallons Per Day) - (Equals UAJA max discharge)[1]		7,000,000
Cost per Gallon		$23.57
Gallons per Residential User Maximum Capacity Part	90 GPD x 2.38=	214
Maximum Capacity Part		**$5,044.00**

1) UAJA's WQM Permit provides for an AAF of 9.0 MGD, however UAJA's NPDES permit for Spring Creek only allows 6.0 MGD to be discharged. The NPDES permit for Beneficial Reuse/Wetland Discharge authorizes an additional discharge of 3.0 MGD however, the installed Beneficial Reuse Facilities are rated for 1.0 MGD. Therefore, the 2.00 MGD balance of capacity in the permit is only available with additional expense which is not included in the numerator of the equation therefore, the 2.00 MGD was not included as capacity in the denominator.

COLLECTION PART

HISTORICAL TRENDED COSTS

Project Completion Year	Total Historical Cost	Grants	Net Cost	ENR Index		Trend Factor	Trended Cost	Collection Cost
1970	$ 6,151,546.89	$ 807,531.05	$ 5,344,015.84	1381	10132	7.34	$ 39,207,507.97	$ 39,207,507.97
1999	$ 110,782.00	$ -	$ 110,782.00	6060	10132	1.67	$ 185,221.65	$ 185,221.65
2003	$ 152,455.00	$ -	$ 152,455.00	6695	10132	1.51	$ 230,720.55	$ 230,720.55
2005	$ 1,314,124.00	$ 1,314,124.00	$ -	7446	10132	1.36	$ -	$ -
2006	$ 1,402,896.00	$ 1,402,896.00	$ -	7751	10132	1.31	$ -	$ -
2007	$ 785,055.00	$ 785,055.00	$ -	7967	10132	1.27	$ -	$ -
2008	$ 522,182.45	$ 504,192.45	$ 17,990.00	8310	10132	1.22	$ 21,934.38	$ 21,934.38
2009	$ 1,157,316.39	$ 1,157,316.39	$ -	8570	10132	1.18	$ -	$ -
2010	$ 990,316.00	$ 990,316.00	$ -	8802	10132	1.15	$ -	$ -
2011	$ 108,562.44	$ 108,562.44	$ -	9070	10132	1.12	$ -	$ -
2012	$ 676,520.00	$ 676,520.00	$ -	9308	10132	1.09	$ -	$ -
2013	$ 2,640,435.00	$ 2,640,435.00	$ -	9547	10132	1.06	$ -	$ -
2014	$ 1,124,344.68	$ 1,124,344.68	$ -	9806	10132	1.03	$ -	$ -
2015	$ 62,741.00	$ -	$ 62,741.00	10034	10132	1.01	$ 63,353.78	$ 63,353.78
Total Historical & Trended Cost	*$ 17,136,535.85*	*$ 11,511,293.01*	*$ 5,625,242.84*				*$ 39,645,384.54*	*$ 39,645,384.54*

REPLACEMENT COSTS

Description	Total Replacement Cost *	Grants	Net Cost	ENR Index		Trend Factor	Trended Cost	Collection Cost
Sewer Collection Syste	$ 120,830,416.98	$ 113,851,579.53	$ 6,978,837.45	NA	NA	NA	$ 6,978,837.45	$ 6,978,837.45
Total Replacement Cos	*$ 120,830,416.98*	*$113,851,579.53*	*$ 6,978,837.45*					*$ 6,978,837.45*

Total Collection Costs (Historical and Replacement)	$ 46,624,221.99
Less Outstanding Debt Related to Facilities	$ 2,671,296.60
Total Trended Adjusted Cost	**$ 43,952,925.39**

COLLECTION PART		
Capacity (Gallons Per Day) - (Equals UAJA max discharge)[1]		7,000,000
Cost per Gallon		$6.28
Gallons per Residential User Maximum Capacity Part	90 GPD x 2.38=	214
Maximum Collection Part		**$1,344.00**

TOTAL MAXIMUM TAPPING FEE - CAPACITY AND COLLECTION PARTS, HYDRAULIC CAPACITY (PER HOUSEHOLD) **$6,388.00**

* Replacement cost is based on engineer's estimate and comprehensive report by Industrial Appraisal Company dated May 1, 2015; historical is not ascertainable.

1) UAJA's WQM Permit provides for an AAF of 9.0 MGD, however UAJA's NPDES permit for Spring Creek only allows 6.0 MGD to be discharged. The NPDES permit for Beneficial Reuse/Wetland Discharge authorizes an additional discharge of 3.0 MGD however, the installed Beneficial Reuse Facilities are rated for 1.0 MGD. Therefore, the 2.00 MGD balance of capacity in the permit is only available with additional expense which is not included in the numerator of the equation therefore, the 2.00 MGD was not included as capacity in the denominator.

Exhibit 2a - Detailed Historical Cost Breakdown - Capacity

HISTORICAL TRENDED COSTS

Project Completion Year	Total Historical Cost	Grants	Net Cost	ENR Index		Trend Factor	Trended Cost	Capacity Cost
CAPACITY								
1967	$ 244,931.00	$ -	$ 244,931.00	1074	10132	9.43	$ 2,310,652.60	$ 2,310,652.60
1968	$ 1,508,256.00	$ 251,600.00	$ 1,256,656.00	1155	10132	8.77	$ 11,023,756.36	$ 11,023,756.36
1969	$ 786,805.00	$ 257,900.00	$ 528,905.00	1269	10132	7.98	$ 4,222,904.22	$ 4,222,904.22
1970	$ 6,509,489.21	$ 886,266.42	$ 5,623,222.79	1381	10132	7.34	$ 41,255,969.09	$ 41,255,969.09
1971	$ 3,656.00	$ -	$ 3,656.00	1581	10132	6.41	$ 23,429.85	$ 23,429.85
1972	$ 1,088.00	$ -	$ 1,088.00	1753	10132	5.78	$ 6,288.43	$ 6,288.43
1974	$ 92,170.00	$ -	$ 92,170.00	2020	10132	5.02	$ 462,310.12	$ 462,310.12
1975	$ 49,531.00	$ -	$ 49,531.00	2212	10132	4.58	$ 226,875.27	$ 226,875.27
1976	$ 108,570.00	$ -	$ 108,570.00	2401	10132	4.22	$ 458,155.45	$ 458,155.45
1977	$ 14,975.00	$ -	$ 14,975.00	2576	10132	3.93	$ 58,900.12	$ 58,900.12
1978	$ 18,575.00	$ -	$ 18,575.00	2776	10132	3.65	$ 67,796.07	$ 67,796.07
1979	$ 183,793.00	$ -	$ 183,793.00	3003	10132	3.37	$ 620,110.12	$ 620,110.12
1980	$ 143,207.00	$ -	$ 143,207.00	3237	10132	3.13	$ 448,246.32	$ 448,246.32
1981	$ 6,815.00	$ -	$ 6,815.00	3535	10132	2.87	$ 19,533.12	$ 19,533.12
1982	$ 99.00	$ -	$ 99.00	3825	10132	2.65	$ 262.24	$ 262.24
1983	$ 1,055.00	$ -	$ 1,055.00	4066	10132	2.49	$ 2,628.94	$ 2,628.94
1984	$ 4,736.00	$ -	$ 4,736.00	4146	10132	2.44	$ 11,573.84	$ 11,573.84
1985	$ 95,971.00	$ -	$ 95,971.00	4195	10132	2.42	$ 231,794.56	$ 231,794.56
1986	$ 169,656.00	$ -	$ 169,656.00	4295	10132	2.36	$ 400,222.26	$ 400,222.26
1987	$ 232,802.00	$ -	$ 232,802.00	4406	10132	2.30	$ 535,349.49	$ 535,349.49
1988	$ 736,093.00	$ -	$ 736,093.00	4519	10132	2.24	$ 1,650,385.99	$ 1,650,385.99
1989	$ 981,229.00	$ -	$ 981,229.00	4615	10132	2.20	$ 2,154,238.84	$ 2,154,238.84
1990	$ 8,091,034.00	$ -	$ 8,091,034.00	4732	10132	2.14	$ 17,324,251.16	$ 17,324,251.16
1991	$ 18,019,993.00	$ -	$ 18,019,993.00	4835	10132	2.10	$ 37,761,855.03	$ 37,761,855.03
1992	$ 5,933,112.00	$ -	$ 5,933,112.00	4985	10132	2.03	$ 12,059,035.26	$ 12,059,035.26
1993	$ 1,117,936.00	$ -	$ 1,117,936.00	5210	10132	1.94	$ 2,174,074.39	$ 2,174,074.39
1994	$ 456,565.00	$ -	$ 456,565.00	5408	10132	1.87	$ 855,383.98	$ 855,383.98
1995	$ 411,257.00	$ -	$ 411,257.00	5471	10132	1.85	$ 761,626.01	$ 761,626.01
1996	$ 106,350.00	$ -	$ 106,350.00	5620	10132	1.80	$ 191,732.78	$ 191,732.78
1997	$ 296,887.00	$ -	$ 296,887.00	5826	10132	1.74	$ 516,316.35	$ 516,316.35
1998	$ 1,631,664.00	$ -	$ 1,631,664.00	5920	10132	1.71	$ 2,792,570.89	$ 2,792,570.89
1999	$ 1,714,730.00	$ 260,000.00	$ 1,454,730.00	6059	10132	1.67	$ 2,432,633.17	$ 2,432,633.17
2000	$ 2,752,597.00	$ -	$ 2,752,597.00	6221	10132	1.63	$ 4,483,091.59	$ 4,483,091.59
2001	$ 3,609,790.00	$ 105,000.00	$ 3,504,790.00	6343	10132	1.60	$ 5,598,381.25	$ 5,598,381.25
2002	$ 12,444,054.00	$ -	$ 12,444,054.00	6538	10132	1.55	$ 19,284,667.35	$ 19,284,667.35
2003	$ 16,854,836.00	$ -	$ 16,854,836.00	6694	10132	1.51	$ 25,511,383.08	$ 25,511,383.08
2004	$ 16,266,860.13	$ -	$ 16,266,860.13	7129	10132	1.42	$ 23,119,066.75	$ 23,119,066.75
2006	$ 62,320.00	$ -	$ 62,320.00	7751	10132	1.31	$ 81,463.84	$ 81,463.84
2007	$ 1,858,303.00	$ -	$ 1,858,303.00	7967	10132	1.27	$ 2,363,289.32	$ 2,363,289.32
2008	$ 5,395,900.20	$ -	$ 5,395,900.20	8310	10132	1.22	$ 6,578,972.42	$ 6,578,972.42
2009	$ 77,500.00	$ -	$ 77,500.00	8570	10132	1.18	$ 91,625.44	$ 91,625.44
2010	$ 68,140.00	$ -	$ 68,140.00	8802	10132	1.15	$ 78,436.09	$ 78,436.09
2011	$ 396,061.86	$ 100,000.00	$ 296,061.86	9070	10132	1.12	$ 330,727.54	$ 330,727.54
2012	$ 1,638,099.00	$ -	$ 1,638,099.00	9308	10132	1.09	$ 1,783,113.35	$ 1,783,113.35
2013	$ 236,875.00	$ -	$ 236,875.00	9547	10132	1.06	$ 251,389.70	$ 251,389.70
2014	$ 205,871.84	$ -	$ 205,871.84	9806	10132	1.03	$ 212,716.04	$ 212,716.04
2015	$ 7,528,858.00	$ 25,000.00	$ 7,503,858.00	10034	10132	1.01	$ 7,577,146.63	$ 7,577,146.63
Total Historical & Trended Cost	*$ 119,069,096.24*	*$ 1,885,766.42*	*$ 117,183,329.82*				*$ 240,406,332.70*	*$ 240,406,332.70*

HISTORICAL TRENDED COSTS

Project Completion Year	Total Historical Cost	Grants	Net Cost	ENR Index		Trend Factor	Trended Cost	Collection Cost
COLLECTION								
1970	$ 6,151,546.89	$ 807,531.05	$ 5,344,015.84	1381	10132	7.34	$ 39,207,507.97	$ 39,207,507.97
1999	$ 110,782.00	$ -	$ 110,782.00	6060	10132	1.67	$ 185,221.65	$ 185,221.65
2003	$ 152,455.00	$ -	$ 152,455.00	6695	10132	1.51	$ 230,720.55	$ 230,720.55
2005	$ 1,314,124.00	$ 1,314,124.00	$ -	7446	10132	1.36	$ -	$ -
2006	$ 1,402,896.00	$ 1,402,896.00	$ -	7751	10132	1.31	$ -	$ -
2007 [1]	$ 785,055.00	$ 785,055.00	$ -	7967	10132	1.27	$ -	$ -
2008 [1]	$ 522,182.45	$ 504,192.45	$ 17,990.00	8310	10132	1.22	$ 21,934.38	$ 21,934.38
2009	$ 1,157,316.39	$ 1,157,316.39	$ -	8570	10132	1.18	$ -	$ -
2010	$ 990,316.00	$ 990,316.00	$ -	8802	10132	1.15	$ -	$ -
2011	$ 108,562.44	$ 108,562.44	$ -	9070	10132	1.12	$ -	$ -
2012	$ 676,520.00	$ 676,520.00	$ -	9308	10132	1.09	$ -	$ -
2013 [1]	$ 2,640,435.00	$ 2,640,435.00	$ -	9547	10132	1.06	$ -	$ -
2014 [1]	$ 1,124,344.68	$ 1,124,344.68	$ -	9806	10132	1.03	$ -	$ -
2015	$ 62,741.00	$ -	$ 62,741.00	10034	10132	1.01	$ 63,353.78	$ 63,353.78
Total Historical & Trended Cost	*$ 17,199,276.85*	*$ 11,511,293.01*	*$ 5,687,983.84*				*$ 39,708,738.32*	*$ 39,708,738.32*

TOTAL HISTORICAL COSTS (ROUNDED) **$ 39,708,738.32**

REPLACEMENT COSTS

Project Completion Year	Project Description		Units	Cost/Unit	Total Replacement Cost	Grants/Contributed Facilities/Assessments	Collection Replacement Cost
COLLECTION							
1970	North Meter Pit	Building and Structures	1	$ 35,600.84	$ 35,600.84	$ 35,600.84	$ -
1970	South Meter Pit	Building and Structures	1	$ 35,600.84	$ 35,600.84	$ 35,600.84	$ -
1970	Land [2]	Land - Maylie	1	$ 491,291.64	$ 491,291.64	$ 368,468.73	$ 122,822.91
1972	Land [2]	Land - ROW	1	$ 186,277.85	$ 186,277.85	$ 139,708.39	$ 46,569.46
1974	Harris Drive	Pumps and Controls	180 gpm	$ 206,484.89	$ 206,484.89	$ 206,484.89	$ -
1974	Harris Drive	Wetwell and Structures	1	$ 299,047.08	$ 299,047.08	$ 299,047.08	$ -
1974	Outer Drive	Pumps and Controls	180 gpm	$ 206,484.89	$ 206,484.89	$ 206,484.89	$ -
1974	Outer Drive	Wetwell and Structures	1	$ 299,047.08	$ 299,047.08	$ 299,047.08	$ -
1974	Kaywood	Pumps and Controls	180 gpm	$ 206,484.89	$ 206,484.89	$ 206,484.89	$ -
1974	Kaywood	Wetwell and Structures	1	$ 299,047.08	$ 299,047.08	$ 299,047.08	$ -
1979	Whitehall Road	Pumps and Controls	60 gpm	$ 149,523.54	$ 149,523.54	$ 149,523.54	$ -
1979	Whitehall Road	Wetwell and Structures	1	$ 242,085.73	$ 242,085.73	$ 242,085.73	$ -
1980	Gravity Sewer	Four Foot Diameter Brick or Concrete	5386	$ 4,200.00	$ 22,621,200.00	$ 21,782,577.57	$ 838,622.43
1980	Gravity Sewer	Five Foot Diameter Concrete	50	$ 5,000.00	$ 250,000.00	$ 187,500.00	$ 62,500.00
1980	Gravity Sewer	Air Release Manholes	45	$ 4,000.00	$ 180,000.00	$ 135,000.00	$ 45,000.00
1980	Gravity Sewer	8" Diameter Gravity Sewer	780344	$ 100.00	$ 78,034,400.00	$ 78,034,400.00	$ -
1980	Gravity Sewer	10" Diameter Gravity Sewer	17002	$ 105.00	$ 1,785,210.00	$ -	$ 1,785,210.00
1980	Gravity Sewer	12" Diameter Gravity Sewer	13041	$ 110.00	$ 1,434,510.00	$ -	$ 1,434,510.00
1980	Forcemain	1.5" Diameter Forcemain [1]	375	$ 39.00	$ 14,625.00	$ 10,968.75	$ 3,656.25
1980	Forcemain	2" Diameter Forcemain [1]	414	$ 39.00	$ 16,146.00	$ 12,109.50	$ 4,036.50
1980	Forcemain	3" Diameter Forcemain [1]	4120	$ 42.00	$ 173,040.00	$ 129,780.00	$ 43,260.00
1980	Land [2]	Pump Station/Meter Pit Sites	1	$ 1,246,029.52	$ 1,246,029.52	$ 934,522.14	$ 311,507.38
1980	Land [2]	Forcemain and Gravity Sewer Easements	1	$ 6,764,160.22	$ 6,764,160.22	$ 5,073,120.17	$ 1,691,040.06
1986	North Meter Pit	Metering Equipment	1	$ 242,085.73	$ 242,085.73	$ 242,085.73	$ -
1986	South Meter Pit	Metering Equipment	1	$ 242,085.73	$ 242,085.73	$ 242,085.73	$ -
1986	Haymarket	Pumps and Controls	83 gpm	$ 156,643.71	$ 156,643.71	$ 156,643.71	$ -
1986	Haymarket	Wetwell and Structures	1	$ 256,326.07	$ 256,326.07	$ 256,326.07	$ -
1988	Persia	Pumps and Controls	69 gpm	$ 156,643.71	$ 156,643.71	$ 156,643.71	$ -
1988	Persia	Wetwell and Structures	1	$ 256,326.07	$ 256,326.07	$ 256,326.07	$ -
1988	Scenery Park	Pumps and Controls	68 gpm	$ 156,643.71	$ 156,643.71	$ 156,643.71	$ -
1988	Scenery Park	Wetwell and Structures	1	$ 256,326.07	$ 256,326.07	$ 256,326.07	$ -
1990	Piney Ridge	Pumps and Controls	174 gpm	$ 206,484.89	$ 206,484.89	$ 206,484.89	$ -
1990	Piney Ridge	Wetwell and Structures	1	$ 299,047.08	$ 299,047.08	$ 299,047.08	$ -
1990	Piney Ridge	Generator	1	$ 42,721.01	$ 42,721.01	$ 42,721.01	$ -
1991	Aspen Heights	Pumps and Controls	111 gpm	$ 170,884.05	$ 170,884.05	$ 170,884.05	$ -
1991	Aspen Heights	Wetwell and Structures	1	$ 249,205.90	$ 249,205.90	$ 249,205.90	$ -
1992	St. Ives Place	Pumps and Controls	90 gpm	$ 163,763.88	$ 163,763.88	$ 163,763.88	$ -
1992	St. Ives Place	Wetwell and Structures	1	$ 270,566.41	$ 270,566.41	$ 270,566.41	$ -
1994	Land [2]	Land - ROW	1	$ 30,349.01	$ 30,349.01	$ 22,761.76	$ 7,587.25
1995	Graysdale 2A	Pumps and Controls	76 gpm	$ 156,643.71	$ 156,643.71	$ 156,643.71	$ -
1995	Graysdale 2A	Wetwell and Structures	1	$ 256,326.07	$ 256,326.07	$ 256,326.07	$ -
1999	Graysdale 2B	Pumps and Controls	76 gpm	$ 156,643.71	$ 156,643.71	$ 156,643.71	$ -
1999	Graysdale 2B	Wetwell and Structures	1	$ 256,326.07	$ 256,326.07	$ 256,326.07	$ -
1999	Graysdale 2B	Generator	1	$ 35,600.84	$ 35,600.84	$ 35,600.84	$ -
1999	Fox Hill Road	Pumps and Controls	167 gpm	$ 199,364.72	$ 199,364.72	$ 199,364.72	$ -
1999	Fox Hill Road	Wetwell and Structures	1	$ 284,806.75	$ 284,806.75	$ 284,806.75	$ -
1999	Fox Hill Road	Generator	1	$ 49,841.18	$ 49,841.18	$ 49,841.18	$ -
2003	Claster's Meter Pit	Building and Structures	1	$ 58,385.38	$ 58,385.38	$ -	$ 58,385.38
2004	Marywood	Pumps and Controls (146 gpm)	1	$ 185,124.39	$ 185,124.39	$ 185,124.39	$ -
2004	Marywood	Wetwell and Structures	1	$ 270,566.41	$ 270,566.41	$ 270,566.41	$ -
2004	Marywood	Generator	1	$ 42,721.01	$ 42,721.01	$ 42,721.01	$ -
2013	Land [2]	Land - Top of Hill	1	$ 28,715.64	$ 28,715.64	$ 21,536.73	$ 7,178.91
Total Replacement Cost					*$ 120,313,466.05*	*$ 113,851,579.53*	*$ 6,461,886.53*

SUBTOTAL REPLACEMENT COSTS (ROUNDED)	$ 6,461,886.53
Engineering, Permitting, Bidding, & Construction Administration (6%)	$ 387,713.19
Legal and Financing Costs (2.0%)	$ 129,237.73
TOTAL REPLACEMENT COSTS	$ 6,978,837.45

TOTAL COSTS (HISTORICAL + REPLACEMENT) $ 46,687,575.77

1) Total value of projects completed has been reduced to accout for projects assessed via a Special Purpose Fee.
2) Land values obtained from comprehensive report by Industrial Appraisal Company dated May 1, 2015 and has been adjusted by the same formula used for other components. HRG does not certify land values.

Exhibit 3 - Summary of Outstanding Debt Related to Facilities

Due Date	10A Principle	10A Interest	2011A Principle	2011A Interest	2012 Principle	2012 Interest	2014 Principle	2014 Interest	2015 Principle	2015 Interest	Emmaus Prin.	Emmaus Int.	Total Debt Service Due
Mar-16	$2,500	$114,265	$170,000	$82,299	$1,317,500	$232,200	$795,000	$662,060		$153,660	$75,000	$18,977	$3,623,460
Sep-16	$2,500	$114,265	$170,000	$82,299	$1,317,500	$232,200	$795,000	$662,060		$153,660			$3,529,483
Mar-17	$2,500	$114,213	$187,500	$78,899	$1,387,500	$179,500	$807,500	$623,979		$153,660	$80,000	$15,515	$3,630,765
Sep-17	$2,500	$114,213	$187,500	$78,899	$1,387,500	$179,500	$807,500	$623,979		$153,660			$3,535,250
Mar-18	$2,500	$114,154	$200,000	$75,149	$1,422,500	$151,750	$827,500	$584,815		$153,660	$80,000	$12,035	$3,624,063
Sep-18	$2,500	$114,154	$200,000	$75,149	$1,422,500	$151,750	$827,500	$584,815		$153,660			$3,532,028
Mar-19	$15,000	$114,089	$215,000	$70,449	$1,512,500	$80,625	$827,500	$544,268		$153,660	$85,000	$8,356	$3,626,446
Sep-19	$15,000	$114,089	$215,000	$70,449	$1,512,500	$80,625	$827,500	$544,268		$153,660			$3,533,090
Mar-20	$20,000	$113,661	$227,500	$64,806	$250,000	$5,000	$1,225,000	$503,720		$153,660	$90,000	$4,459	$2,657,805
Sep-20	$20,000	$113,661	$227,500	$64,806	$250,000	$5,000	$1,225,000	$503,720		$153,660			$2,563,346
Mar-21	$172,500	$113,061	$245,000	$58,322			$1,285,000	$443,695	$205,000	$153,660	$95,000	$344	$2,771,582
Sep-21	$172,500	$113,061	$245,000	$58,322			$1,285,000	$443,695	$205,000	$153,660			$2,676,238
Mar-22	$215,000	$107,541	$260,000	$50,972			$1,350,000	$380,730	$302,500	$144,947			$2,811,690
Sep-22	$215,000	$107,541	$260,000	$50,972			$1,350,000	$380,730	$302,500	$144,947			$2,811,690
Mar-23	$212,500	$100,339	$280,000	$42,847			$1,415,000	$314,580	$312,500	$132,847			$2,810,613
Sep-23	$212,500	$100,339	$280,000	$42,847			$1,415,000	$314,580	$312,500	$132,847			$2,810,613
Mar-24	$207,500	$93,008	$297,500	$33,747			$1,490,000	$245,245	$325,000	$120,347			$2,812,346
Sep-24	$207,500	$93,008	$297,500	$33,747			$1,490,000	$245,245	$325,000	$120,347			$2,812,346
Mar-25	$207,500	$85,641	$320,000	$23,706			$1,557,500	$172,235	$332,500	$112,628			$2,811,711
Sep-25	$207,500	$85,641	$320,000	$23,706			$1,557,500	$172,235	$332,500	$112,628			$2,811,711
Mar-26	$200,000	$78,171	$345,000	$12,506			$1,635,000	$95,918	$342,500	$104,316			$2,813,411
Sep-26	$200,000	$78,171	$345,000	$12,506			$1,635,000	$95,918	$342,500	$104,316			$2,813,411
Mar-27	$907,500	$70,771					$157,500	$15,803	$1,565,000	$95,325			$2,811,899
Sep-27	$907,500	$70,771					$157,500	$15,803	$1,565,000	$95,325			$2,811,899
Mar-28	$942,500	$36,286					$165,000	$8,085	$1,612,500	$48,375			$2,812,746
Sep-28	$942,500	$36,286					$165,000	$8,085	$1,612,500	$48,375			$2,812,746
TOTAL	**$6,215,000**	**$2,510,400**	**$5,495,000**	**$1,187,406**	**$11,780,000**	**$1,298,150**	**$27,075,000**	**$9,190,262**	**$9,995,000**	**$3,361,483**	**$505,000**	**$59,686**	**$78,672,387**
Percent Capacity	100%	100%	100%	100%	100%	100%	100%	100%	80%	80%	0%	0%	
Total Capacity	$6,215,000	$2,510,400	$5,495,000	$1,187,406	$11,780,000	$1,298,150	$27,075,000	$9,190,262	$7,996,000	$2,689,186	$0	$0	**$75,436,405**
Percent Collection	0%	0%	0%	0%	0%	0%	0%	0%	20%	20%	0%	0%	
Total Collection	$0	$0	$0	$0	$0	$0	$0	$0	$1,999,000	$672,297	$0	$0	**$2,671,297**
Percent Special Purpose	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	
Total Special Purpose	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$505,000	$59,686	**$564,686.00**

Exhibit 4 - Derivation of Organic Based Tapping Fee Charge

A. Determination of Conversion Factor Based Upon Historic UAJA Loadings

Avg. Historic BOD Loading (Years 2010 - 2014) (Per Chapter 94 Report)	**0.38**	**lb/day/EDU**
	2.63	**EDUs/1 lb BOD**

B. Verification of Above Conversion Factor Based Upon Industry Standards

BOD = 0.17 lb/day/capita (Per DEP Domestic Wastewater Facilities Manual)
Capita per Household = 2.38 (Census Data - Centre County)

Lbs/day/EDU = 0.17 lb/day/cap * 2.38 people per household =	**0.40**	**lb/day/EDU**
	2.47	**EDUs/1 lb BOD**

(UAJA historic loading data appears appropriate when compared to standard industry approximations. With the consideration given to water saving appliances, UAJA's wastewater stream has a slightly higher concentration than predicted by the standard model.)

C. Verification Based Upon Capacity of AWTF

UAJA Influent BOD Loading Capacity Per Day =	38,801	lb.
UAJA Permitted Capacity =	9,000,000	gpd
Gallons/ lb. BOD =	231.95	
Gallons per Residential User (EDU) 90 * 2.38 =	214	
No. of EDUs in 1lb. BOD =	**1.08**	**EDUs/1 lb BOD**
No. of lb. BOD/ EDU =	**0.92**	**lb/day/EDU**

Facilities have been installed and permitted to handle historic BOD loadings shown above.

Determination of Organic Tapping Fee Charge

Organic Loading per EDU = 2.63 EDUs/1 lb BOD

Max Tapping Fee/EDU - Capacity Part =	**$5,044.00**	***2.63 EDUs/lb.**	
Capacity Part : Cost per Pound BOD_5 (non-residential) =		**$ 13,273.68**	**/lb**
Max Tapping Fee/EDU - Collection Part =	**$1,344.00**	***2.63 EDUs/lb.**	
Collection Part : Cost per Pound BOD_5 (non-residential) =		**$ 3,536.84**	**/lb**
Total Residential Tapping Fee =		**$ 16,810.53**	**/lb**

University Area Joint Authority

Financial Statements and
Required Supplementary and
Supplementary Information

Years Ended December 31, 2022 and 2021
with Independent Auditor's Report

UNIVERSITY AREA JOINT AUTHORITY

YEARS ENDED DECEMBER 31, 2022 AND 2021

TABLE OF CONTENTS

Independent Auditor's Report

Required Supplementary Information:

Management's Discussion and Analysis i

Financial Statements:

Statements of Net Position 1

Statements of Revenues and Expenses and Changes in Net Position 2

Statements of Cash Flows 3

Notes to Financial Statements 4

Supplementary Information:

Supplementary Schedule I – General and Administrative Expenses 21

Supplementary Schedule II – Comparative Analysis of Wastewater Treatment Plant Expenses 22

Supplementary Schedule III – Comparative Analysis of Collection Expenses 24

Supplementary Schedule IV – Comparative Analysis of Trustee Funds 25

MaherDuessel

Independent Auditor's Report

Board Members
University Area Joint Authority
State College, Pennsylvania

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of the business-type activities of the University Area Joint Authority (Authority), as of and for the years ended December 31, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities of the Authority, as of December 31, 2022 and 2021, and the changes in financial position and cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Authority and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information listed in the table of contents be presented to supplement the basic

financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the financial statements that collectively comprise the Authority's basic financial statements. The supplementary information listed in the table of contents is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Pittsburgh, Pennsylvania
MONTH XX, 2023

UNIVERSITY AREA JOINT AUTHORITY
MANAGEMENT'S DISCUSSION AND ANALYSIS

This section of the financial report presents the Management's Discussion and Analysis (MD&A) of the University Area Joint Authority's (Authority) financial condition and performance for the fiscal year ending December 31, 2022 in compliance with Statement No. 34 of the Governmental Accounting Standards Board (GASB). This analysis is intended to be read and used in conjunction with the included financial statements.

FINANCIAL HIGHLIGHTS

The following are key financial highlights during the 2022 fiscal year:

- In 2022, the Bulk Treatment Rate increased 1.7% from $5,287/million gallons to $5,375/million gallons and the EDU rate remained at $104/quarter.

- In 2022, the plant capacity tap fee increased 8.0% from $5,543 to $5,986 per EDU. This fee has historically been increased annually by the same percentage as the Construction Cost Index published in the Engineering News Record.

REQUIRED FINANCIAL STATEMENTS

The financial statements of the Authority are compiled using the Enterprise Fund method of accounting because the operations are financed and operated in a manner similar to private sector businesses, where the costs of providing services to the general public on a continuing basis are intended to be financed or recovered through user charges or sewer service fees. The Authority uses the accrual basis of accounting whereby revenues are recognized when earned and expenses are recognized when the liability is incurred. The financial statements offer short-term and long-term financial information about the Authority's activities.

The Statement of Net Position summarizes all of the Authority's assets and deferred outflows of resources and liabilities and deferred inflows of resources and provides information about the nature and amounts of investments in resources or assets and the offsetting obligations or liabilities to Authority creditors. The overall financial condition of the Authority is reflected in this statement.

The Statement of Revenues and Expenses and Changes in Net Position summarizes the revenues and expenses for the current fiscal year and past fiscal year. This statement measures the success of the Authority's operations over the past year and can be used to determine whether the Authority has successfully recovered all its costs through its sewage disposal rates and other fees. Changes in net position can also be a useful indicator of whether the financial condition of the Authority is improving or deteriorating.

The third required financial statement is the Statement of Cash Flows. This statement provides information about the Authority's cash receipts and cash payments during the reporting period. The statement reports cash flows from operating activities, cash flows from capital and related

financing activities, and cash flows from investing activities, as well as net changes in cash during the reporting period.

The Notes to Financial Statements provide required disclosures and other information essential to a full understanding of material data provided in the statements. The notes present information on the Authority's accounting policies, the basis of accounting, investments, capital assets, outstanding debt, and other significant activities, such as material risks, obligations, commitments, contingencies, and future requirements, if any.

FINANCIAL ANALYSIS

The format of the 2022 financial statements is similar to 2021 and includes a direct line-by-line comparison to the 2021 financial statements.

TABLE 1
CONDENSED STATEMENTS OF NET POSITION

	December 31, 2022	December 31, 2021	Change
Current assets	$ 9,153,956	$ 10,463,194	$ (1,309,238)
Other assets	21,336,470	24,500,539	(3,164,069)
Capital assets	92,266,346	92,768,233	(501,887)
Total assets	$ 122,756,772	$ 127,731,966	$ (4,975,194)
Total deferred outflows of resources	$ 2,222,372	$ 2,610,290	$ (387,918)
Current liabilities	$ 5,983,920	$ 5,410,709	$ 573,211
Non-current liabilities	70,441,600	75,137,343	(4,695,743)
Total liabilities	$ 76,425,520	$ 80,548,052	$ (4,122,532)
Net Position:			
Net investment in capital assets	$ 26,919,604	$ 33,219,978	$ (6,300,374)
Restricted	14,199,008	7,574,823	6,624,185
Unrestricted	7,435,012	8,999,403	(1,564,391)
Total net position	$ 48,553,624	$ 49,794,204	$ (1,240,580)

Table 1 presents a condensed summary of the Authority's Statements of Net Position at December 31, 2022 and 2021. There is a $1,240,580 decrease in total net position.

The format of the 2021 financial statements is similar to 2020 and includes a direct line-by-line comparison to the 2020 financial statements.

TABLE 2
CONDENSED STATEMENTS OF NET POSITION

	December 31, 2021	December 31, 2020	Change
Current assets	$ 10,463,194	$ 13,862,286	$ (3,399,092)
Other assets	24,500,539	16,207,863	8,292,676
Capital assets	92,768,233	94,164,585	(1,396,352)
Total assets	$ 127,731,966	$ 124,234,734	$ 3,497,232
Total deferred outflows of resources	$ 2,610,290	$ 2,947,117	$ (336,827)
Current liabilities	$ 5,410,709	$ 5,610,337	$ (199,628)
Non-current liabilities	75,137,343	70,091,640	5,045,703
Total liabilities	$ 80,548,052	$ 75,701,977	$ 4,846,075
Net Position:			
Net investment in capital assets	$ 23,869,085	$ 32,649,289	$ (8,780,204)
Restricted	16,925,716	7,076,952	9,848,764
Unrestricted	8,999,403	11,753,633	(2,754,230)
Total net position	$ 49,794,204	$ 51,479,874	$ (1,685,670)

Table 2 presents a condensed summary of the Authority's Statements of Net Position at December 31, 2021 and 2020. There is a $1,685,670 decrease in total net position.

Table 3 presents a condensed summary of the Authority's Statements of Revenues and Expenses and Changes in Net Position for the years ended December 31, 2022 and 2021.

TABLE 3
CONDENSED STATEMENTS OF REVENUES AND EXPENSES
AND CHANGES IN NET POSITION

	2022	2021	Change
Operating Revenues:			
Sewer charges	$ 15,632,808	$ 14,593,755	$ 1,039,053
Other fees and charges	382,942	317,193	65,749
Total Revenues	16,015,750	14,910,948	1,104,802
Operating Expenses:			
Treatment plant	7,342,629	6,493,698	848,931
Collection	2,651,531	2,405,443	246,088
General and administration	2,528,520	1,932,318	596,202
Depreciation	5,280,203	5,202,998	77,205
Total Expenses	17,802,883	16,034,457	1,768,426
Nonoperating Activity:			
Revenues	20,431	278,488	(258,057)
Expenses	(2,475,363)	(2,652,151)	176,788
Total Nonoperating Activity	(2,454,932)	(2,373,663)	(81,269)
Capital Contributions:			
Developer	120,514	457,099	(336,585)
Permit and tap fees	2,880,971	1,354,403	1,526,568
Total Capital Contributions	3,001,485	1,811,502	1,189,983
Change in Net Position	(1,240,580)	(1,685,670)	445,090
Net Position:			
Beginning of year	49,794,204	51,479,874	(1,685,670)
End of year	$ 48,553,624	$ 49,794,204	$ (1,240,580)

The Authority's operating revenues increased by $1,104,802 due to an increase in sewer rates in 2022. Nonoperating revenues and expenses for 2022 were fairly consistent with 2021. Capital contributions increased by $1,189,983 due to more developer contributions in 2022. As a result, change in net position increased in 2022 from 2021 by $445,090. Tapping fees continued at a decreased level compared to amounts received in 2021.

Table 4 presents a condensed summary of the Authority's Statements of Revenues and Expenses and Changes in Net Position for the years ended December 31, 2021 and 2020.

TABLE 3
CONDENSED STATEMENTS OF REVENUES AND EXPENSES
AND CHANGES IN NET POSITION

	2021	2020	Change
Operating Revenues:			
Sewer charges	$ 14,593,755	$ 14,056,447	$ 537,308
Other fees and charges	317,193	389,915	(72,722)
Total Revenues	14,910,948	14,446,362	464,586
Operating Expenses:			
Treatment plant	6,493,698	5,960,868	532,830
Collection	2,405,443	2,404,742	701
General and administration	1,932,318	2,095,532	(163,214)
Depreciation	5,202,998	5,216,687	(13,689)
Total Expenses	16,034,457	15,677,829	356,628
Nonoperating Activity:			
Revenues	278,488	159,490	118,998
Expenses	(2,652,151)	(2,709,498)	57,347
Total Nonoperating Activity	(2,373,663)	(2,550,008)	176,345
Capital Contributions:			
Developer	457,099	2,970,000	(2,512,901)
Permit and tap fees	1,354,403	2,902,634	(1,548,231)
Total Capital Contributions	1,811,502	5,872,634	(4,061,132)
Change in Net Position	(1,685,670)	2,091,159	(3,776,829)
Net Position:			
Beginning of year	51,479,874	49,388,715	2,091,159
End of year	$ 49,794,204	$ 51,479,874	$ (1,685,670)

CAPITAL IMPROVEMENTS

During 2021, the Authority continued to make capital purchases and improvements. Several sewer replacement projects were undertaken, and construction was completed. Numerous developer-funded extensions were installed.

DEBT

At the end of the fiscal year, the Authority had outstanding debt totaling $71,065,000. The Authority has issued Revenue Bonds in the following years: Series of 2015, Series A of 2017, Series B of 2017, Series of 2018, Series of 2020, Series A of 2020, Series of 2021, Series A of 2021, and Series of 2022. The Series of 2022 Bond Issue was issued in March of 2022 and was used to refund the Series of 2017 bond. All of this debt is subordinate to the 1993 Bond Indenture. The Authority maintains a Debt Service Reserve Fund in accordance with the requirements of the 1993 Bond Trust Indenture. More detailed information about the Authority's long-term debt is presented in the notes to the financial statements.

CONDITIONS AFFECTING FUTURE FINANCIAL POSITION

At this time, there are no significant conditions that staff is aware of that may affect the future financial condition of the Authority.

CONTACTING THE AUTHORITY'S MANAGER

If you have any questions about this report or need additional financial information, contact the University Area Joint Authority's Manager at 1576 Spring Valley Road, State College, PA 16801.

UNIVERSITY AREA JOINT AUTHORITY

STATEMENTS OF NET POSITION

DECEMBER 31, 2022 AND 2021

	2022	2021
Assets:		
Current assets:		
Cash and cash equivalents	$ 264,166	$ 279,511
Accounts receivable - operations	2,939,140	2,834,861
Due from Borough of State College	1,867,588	1,019,968
Prepaid expenses	38,686	88,294
Trustee funds - unrestricted	4,044,376	6,240,560
Total current assets	9,153,956	10,463,194
Capital assets, not being depreciated	8,576,726	4,933,731
Capital assets, net of accumulated depreciation	83,689,620	87,834,502
Total capital assets	92,266,346	92,768,233
Other assets:		
Trustee funds - restricted for debt service and operating reserves	7,137,462	7,574,823
Trustee funds - restricted for capital projects	14,199,008	16,925,716
Total other assets	21,336,470	24,500,539
Total assets	$ 122,756,772	$ 127,731,966
Deferred Outflows of Resources:		
Deferred charge on refunding	$ 2,222,372	$ 2,610,290
Liabilities:		
Current liabilities:		
Current portion of bonds payable	$ 4,576,000	$ 4,451,000
Accounts payable	400,715	110,890
Retainage payable	657,514	508,609
Accrued interest - bonds payable	348,488	327,365
Advance escrow deposits	-	11,642
Security deposits	1,203	1,203
Total current liabilities	5,983,920	5,410,709
Long-term liabilities:		
Compensated absences	968,538	1,012,691
Bonds payable, net	69,473,062	74,124,652
Total long-term liabilities	70,441,600	75,137,343
Total liabilities	$ 76,425,520	$ 80,548,052
Net Position:		
Net investment in capital assets	$ 26,919,604	$ 23,869,085
Restricted	14,199,008	16,925,716
Unrestricted	7,435,012	8,999,403
Total net position	$ 48,553,624	$ 49,794,204

See accompanying notes to financial statements.

UNIVERSITY AREA JOINT AUTHORITY

STATEMENTS OF REVENUES AND EXPENSES AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Operating Revenues:		
Revenue - sewer	$ 15,632,808	$ 14,593,755
Revenue - solids	108,788	137,741
Maintenance	140,267	113,425
Reimbursed fees	34,427	36,092
Miscellaneous	99,460	29,935
Total operating revenues	16,015,750	14,910,948
Operating Expenses:		
Wastewater treatment plant:		
Laboratory	297,531	340,889
Physical plant	1,319,204	1,202,422
Industrial pre-treatment program	101,495	106,358
Beneficial reuse	1,115,912	906,914
Dewatering	586,951	404,750
Compost	961,493	913,503
Treatment operations	2,960,043	2,618,862
Total wastewater treatment plant	7,342,629	6,493,698
Collection:		
Inspection	504,065	464,902
Pump station	109,260	103,430
Maintenance	2,038,206	1,837,111
Total collection	2,651,531	2,405,443
Depreciation expense	5,280,203	5,202,998
General and administrative expenses	2,528,520	1,932,318
Total operating expenses	17,802,883	16,034,457
Net Operating Income (Loss)	(1,787,133)	(1,123,509)
Nonoperating Revenues (Expenses):		
Investment income:		
Trustee fund accounts	18,343	157,277
Operating accounts	1,238	448
Gain (loss) on asset disposal	850	120,763
Interest expense:		
Bonds payable	(2,222,324)	(2,299,683)
Note payable	-	(125)
Bond issue costs	(238,749)	(339,570)
Trustee fees	(14,290)	(12,773)
Total nonoperating revenues (expenses)	(2,454,932)	(2,373,663)
Income (Loss) Before Contribution Revenue	(4,242,065)	(3,497,172)
Contribution Revenue:		
Contributions:		
Developer	120,514	457,099
Permit and tapping fees	2,880,971	1,354,403
Total contribution revenue	3,001,485	1,811,502
Change in Net Position	(1,240,580)	(1,685,670)
Net Position:		
Beginning of year	49,794,204	51,479,874
End of year	$ 48,553,624	$ 49,794,204

See accompanying notes to financial statements.

UNIVERSITY AREA JOINT AUTHORITY

STATEMENTS OF CASH FLOWS

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Cash Flows From Operating Activities:		
Receipts from customers and users	$ 15,063,851	$ 14,799,032
Payments to suppliers	(1,783,675)	(1,412,532)
Payments to employees	(6,417,417)	(6,126,461)
Payments for other operating expenses	(4,316,133)	(3,271,484)
Net cash provided by (used in) operating activities	2,546,626	3,988,555
Cash Flows From Capital and Related Financing Activities:		
Purchase/construction of capital assets	(4,218,222)	(3,905,589)
Contributions: permit and tapping fees	2,880,971	1,354,403
Increase (decrease) in escrow deposits	(11,642)	11,642
Proceeds from issuance of bonds	9,182,811	16,535,759
Bond issue costs	(238,749)	(339,570)
Principal paid on capital debt	(13,201,000)	(10,400,000)
Interest paid on capital debt	(2,321,684)	(2,414,648)
Principal paid on financed purchase obligations	-	(190,360)
Net cash provided by (used in) capital and related financing activities	(7,927,515)	651,637
Cash Flows From Investing Activities:		
Interest received on trustee accounts	4,053	144,504
Interest on operating accounts	1,238	448
Net cash provided by (used in) investing activities	5,291	144,952
Net Increase (Decrease) in Cash and Cash Equivalents	(5,375,598)	4,785,144
Cash and Cash Equivalents:		
Beginning of year	31,020,610	26,235,466
End of year	$ 25,645,012	$ 31,020,610
Consists of:		
Cash and cash equivalents	$ 264,166	$ 279,511
Trustee funds - unrestricted	4,044,376	6,240,560
Trustee funds - restricted for debt service and operating reserves	7,137,462	7,574,823
Trustee funds - restricted for capital projects	14,199,008	16,925,716
	$ 25,645,012	$ 31,020,610
Reconciliation of Net Operating Income (Loss) to Net Cash Provided by (Used in) Operating Activities:		
Net operating income (loss)	$ (1,787,133)	$ (1,231,467)
Adjustments to reconcile net operating income (loss) to net cash provided by (used in) operating activities:		
Depreciation	5,280,203	5,202,998
Change in:		
Accounts receivable	(104,279)	79,217
Due from State College Borough	(847,620)	(191,133)
Prepaid expenses	49,608	3,476
Compensated absences	(44,153)	17,506
Total adjustments	4,333,759	5,112,064
Net cash provided by (used in) operating activities	$ 2,546,626	$ 3,880,597
Non-Cash Investing, Capital, and Financing Activities:		
Contributions of developers' system	$ 120,514	$ 457,099

See accompanying notes to financial statements.

1. Summary of Significant Accounting Policies

The University Area Joint Authority (Authority) was formed in 1964 by the Townships of Patton, Ferguson, College, and Harris and was joined by the Borough of State College in 1967, all under the laws of the Commonwealth of Pennsylvania, pursuant to the Municipality Authorities Act of 1945 (Act), as amended. This Act was superseded in 2001 by the Pennsylvania Act 22 of 2001, under which the Authority now duly exists. The Authority was formed for the purpose of financing, constructing, and operating a regional wastewater treatment and disposal facility.

The Patton-Ferguson Joint Authority and College-Harris Joint Authority were formed in 1965 and 1967, respectively, to operate and maintain the sewage collection and transportation systems to the wastewater treatment and disposal facility operated by the Authority. In November 1997, the Authority unified the sewage collection and transportation systems and operations of the Patton-Ferguson Joint Authority and the College-Harris Joint Authority with the consent of the five municipalities.

The Authority is governed by a Board of ten members who are appointed for staggered five-year terms. Each of the five municipalities appoints two Board members. The Authority's activities are controlled by seventeen separate Trust Indentures dated between November 1, 1993 and November 1, 2017. The Authority was in compliance with all significant requirements of the Trust Indentures.

Measurement Focus and Basis of Accounting

The Authority accounts for its activities as an Enterprise Fund that is similar to those found in the private sector, where the determination of net income is necessary or useful to sound financial administration. The Authority's financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows.

Reporting Entity

The Borough of State College, College Township, Ferguson Township, Harris Township, and Patton Township appoint individuals to the governing Board of the Authority; however, the Authority is not financially accountable or fiscally dependent on the above-named entities. The Authority is a separate entity and has total budgetary approval authority. The Authority is not a component unit of any of the above entities.

Capital Assets

Capital assets are stated at historical cost, less accumulated depreciation. Developer contributions are recorded at acquisition value. Depreciation is computed on the straight-line method based on the estimated useful lives of the related assets. Routine repairs and maintenance are expensed as incurred.

Cash and Cash Equivalents

The Authority considers all highly liquid investments with original maturities of three months or less to be cash equivalents. For the purpose of the statements of cash flows, cash and cash equivalents include restricted cash and cash equivalents.

Accounts Receivable

Accounts receivable primarily consist of the fourth quarter unbilled sewage charges. There is no allowance for uncollectible accounts at December 31, 2022 and 2021, as all accounts are considered collectible.

Accounts Payable

Accounts payable primarily consist of retainage payable and other payables related to capital expenditures.

Deferred Outflows and Inflows of Resources

In addition to assets and liabilities, the statements of net position report a separate section for deferred outflows and inflows of resources. This represents a consumption of net position or acquisition of net position that applies to a future period(s) and so will *not* be recognized as an outflow or inflow of resources (expense or revenue) until then. The Authority has one item that qualifies for reporting in this category, the deferred charge on refunding of debt.

Revenue and Expenses

Operating revenues and expenses consist of those revenues and expenses that result from the ongoing principal operations of the Authority. Operating revenue represents user fees generated on the operation and maintenance of the regional wastewater treatment and

disposal facility. Non-operating revenue and expenses consist of all other revenue and expenses received by the Authority.

Bond Premiums and Discounts

Bond premiums and discounts are amortized over the life of the respective bond issue utilizing the straight-line method. Any unamortized portion of the bond issue premium or discount is reflected as an addition or reduction of the related bond payable.

Refunding Transactions

The excess of the reacquisition price over the net carrying amount of refunded debt is recorded as a deferred charge on refunding on the statements of net position and amortized over the shorter of the term of the refunding issue or refunded bonds.

Risk Management

The Authority maintains insurance coverage for risks of loss from tort actions, workers' compensation, employee life, unemployment, disability, and other potential claims arising from legal actions. There have been no significant reductions in insurance coverage during the years under audit. The insurance coverage is evaluated by the Authority on an annual basis. There are no liabilities for unpaid claims included in these financial statements.

Investments

Investments are recorded at fair value. The change in fair value of investments is recognized as an increase or decrease to investment assets and investment income.

The Authority categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted market prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The Authority's trustee funds include investments in obligations of the United States of America, mutual funds, and deposits in time deposit accounts.

Net Position

Accounting standards require the classification of net position into three components – net investment in capital assets; restricted; and unrestricted. These classifications are defined as follows:

- Net investment in capital assets - This component of net position consists of capital assets, net of accumulated depreciation, reduced by the outstanding balances of bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets. Deferred outflows of resources and deferred inflows of resources that are attributable to the acquisition, construction, or improvement of those assets or related debt are also included in this component of net position. If there are significant unspent related debt proceeds or deferred inflows of resources at the end of the reporting period, the portion of the debt or deferred inflows of resources attributable to the unspent amount is not included in the calculation of net investment in capital assets. Instead, that portion of the debt or deferred inflow of resources is included in the same net position component (restricted or unrestricted) as the unspent amount.

- Restricted - This component of net position consists of restricted assets reduced by liabilities. Generally, a liability relates to restricted assets if the asset results from a resource flow that also results in the recognition of a liability or if the liability will be liquidated with the restricted assets reported. The Authority has restricted net position at December 31, 2022 and 2021 of $14,199,008 and $16,925,716, respectively. These funds are restricted for unspent bond proceeds to be used for future capital projects.

- Unrestricted - This component of net position is the net amount of the assets, deferred outflows of resources and liabilities that are not included in the determination of net investment in capital assets or the restricted components of net position.

When an expense is incurred for purposes for which there are both restricted and unrestricted net position available, it is the Authority's policy to apply those expenses to restricted net position to the extent such are available and then to unrestricted net position.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, deferred inflows and outflows, and disclosure on contingent asset and liabilities at the date of the financial statements and revenues and expenses during the reporting period. Actual results could differ from those estimates, and such differences may be material.

Adopted Pronouncements

The following GASB Statements were also adopted for the year ended December 31, 2022: Statement Nos., 87 (Leases), 92 (Omnibus 2020), 97 (Deferred Compensation Plans), and 99 (Omnibus 2022 – paragraphs 26 through 32).

These statements had no significant impact on the Authority's financial statements.

Pending Pronouncements

GASB has issued statements that will become effective in future years including 94 (Public-Private and Public-Public Partnerships), 96 (Information Technology Arrangements), 99 (Omnibus 2022), 100 (Accounting Changes and Error Corrections) and 101 (Compensated Absences). Management has not yet determined the impact of these statements on the financial statements.

2. Transactions with the Borough of State College

The Authority provides sewage treatment of wastewater for the Borough of State College. The amounts due from the Borough of State College at December 31, 2022 and 2021 and the treatment billings for the years then ended are summarized below. These billings represent approximately 28 and 24 percent of total operating revenues for the years ended December 31, 2022 and 2021, respectively.

	2022	2021
Amount due from Borough of State College	$ 1,867,588	$ 1,019,968
Treatment billings	$ 4,507,341	$ 3,626,836

3. Cash, Cash Equivalents, and Investments

Pennsylvania statutes provide for investment of governmental funds into certain authorized investment types including U.S. Treasury bills, other short-term U.S. and Pennsylvania government obligations, short-term commercial paper issued by a public corporation, banker's acceptances, insured or collateralized time deposits, and certificates of deposit. Statutes do not prescribe regulations related to demand deposits; however, they do allow pooling of governmental funds for investment purposes. The deposit and investment policy of the Authority adheres to state statutes and related trust indentures. There were no deposit or investment transactions during the year that were in violation of either the state statutes or the policy of the Authority.

The following is a description of the Authority's deposit and investment risks:

Custodial Credit Risk - Custodial credit risk is the risk that in the event of a bank failure, the Authority's deposits may not be returned to it. The Authority does not have a formal deposit policy for custodial credit risk. As of December 31, 2022, $346,176 of the Authority's bank balance of $596,176 was exposed to custodial credit risk, and as of December 31, 2021, $85,357 of the Authority's bank balance of $335,357 was exposed to custodial credit risk. These funds are collateralized in accordance with Act 72 of the Pennsylvania state legislature, which requires the institution to pool collateral for all governmental deposits and have the collateral held by an approved custodian in the institution's name. These deposits have carrying amounts of $254,005 and $269,503 as of December 31, 2022 and 2021, respectively.

In addition to the deposits noted above, included as cash and cash equivalents on the statements of net position are short-term investments of $10,161 and $10,008 at December 31, 2022 and 2021, respectively, invested in Pennsylvania Local Government Investment Trust (PLGIT).

The Authority's trustee accounts have a carrying amount and a fair value of $25,380,846 at December 31, 2022, and a carrying amount and a fair value of $30,741,099 at

December 31, 2021. At December 31, 2022 and 2021, the entire balance of the trustee funds was invested in money market funds and certificates of deposit.

Interest Rate Risk - The Authority does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. The maturities of the money market and PLGIT investments are daily.

Credit Risk - The Authority has no formal investment policy that would limit its investment choices based on credit ratings by nationally recognized statistical rating organizations. As of December 31, 2022 and 2021, the Authority's investment in money markets and PLGIT were rated AAA by Standard & Poor's.

Concentration of Credit Risk – Management and the Board of Directors place no limit on the amount the Authority may invest in any one issuer.

4. Capital Assets

A summary of changes in capital assets for the year ended December 31, 2022 is as follows:

	January 1, 2022	Additions/ Transfers	Deletions/ Transfers	December 31, 2022
Capital Assets:				
Not being depreciated:				
Land	$ 3,711,928	$ -	$ -	$ 3,711,928
Construction in progress	1,221,803	3,924,181	(281,186)	4,864,798
Total not being depreciated	4,933,731	3,924,181	(281,186)	8,576,726
Being depreciated:				
Administrative	652,610	-	-	652,610
Vehicles	3,417,478	586,406	-	4,003,884
Collection and treatment plant	192,010,315	548,915	-	192,559,230
Total being depreciated	196,080,403	1,135,321	-	197,215,724
Accumulated depreciation	(108,245,901)	(5,280,203)	-	(113,526,104)
Net being depreciated	87,834,502	(4,144,882)	-	83,689,620
Total capital assets, net of depreciation	$ 92,768,233	$ (220,701)	$ (281,186)	$ 92,266,346

A summary of changes in capital assets for the year ended December 31, 2021 is as follows:

	January 1, 2021	Additions/ Transfers	Deletions/ Transfers	December 31, 2021
Capital Assets:				
Not being depreciated:				
Land	$ 3,711,928	$ -	$ -	$ 3,711,928
Construction in progress	2,990,890	3,080,005	(4,849,092)	1,221,803
Total not being depreciated	6,702,818	3,080,005	(4,849,092)	4,933,731
Being depreciated:				
Administrative	501,735	150,875	-	652,610
Vehicles	3,298,811	118,667	-	3,417,478
Collection and treatment plant	186,704,124	5,306,191	-	192,010,315
Total being depreciated	190,504,670	5,575,733	-	196,080,403
Accumulated depreciation	(103,042,903)	(5,202,998)	-	(108,245,901)
Net being depreciated	87,461,767	372,735	-	87,834,502
Total capital assets, net of depreciation	$ 94,164,585	$ 3,452,740	$ (4,849,092)	$ 92,768,233

5. Long-Term Debt

Line of Credit – Direct Borrowing

The Authority has a $391,132 line of credit available with First National Bank. There was no outstanding balance at December 31, 2022 and 2021. During 2022 and 2021, no draws were made on the line of credit.

The Authority has a $750,000 line of credit available with First National Bank. There was no outstanding balance at December 31, 2022 and 2021. During 2022 and 2021, no draws were made on the line of credit.

Note Payable – Direct Borrowing

The Authority also had a note payable due to Emmaus Variable Rate Bond Pool Program in annual installments ranging from $45,000 to $95,000 plus interest at a variable interest rate. The note matured in February 2021 and was secured by equipment of the Authority.

Revenue Bonds

In February 2016, the Authority issued $6,580,000 in 2016 Series Sewer Revenue Bonds, with interest rates ranging from 2.000% to 2.37% to currently refund $6,215,000 of 2010A Series Sewer Revenue Bonds. During 2021, these bonds were refunded by the issuance of the 2021A Series Sewer Revenue Bonds.

The deferred charge on refunding from this transaction was $77,886 and was being amortized through 2028.

In February 2017, the Authority issued $8,900,000 in 2017 Series Sewer Revenue Bonds, with interest rates ranging from 2.00% to 3.37% to fund various capital projects. During 2022, these bonds were refunded by the issuance of the 2022 Series Sewer Revenue Bonds.

In August 2017, the Authority issued $5,293,000 in 2017A Series Sewer Revenue Bonds, with interest rates ranging from 1.98% to 2.23% to currently refund the 2011A Series Sewer Revenue Bonds.

In October 2017, the Authority issued $20,680,000 in 2017B Series Sewer Revenue Bonds, with interest rates ranging from 3.00% to 5.00% to currently refund the 2014 Series Sewer Revenue Bonds.

The deferred charge on refunding from this transaction was $4,113,728 and will be amortized through 2028. This deferred refunding charge is included as a deferred outflow of resources on the statements of net position.

In October 2017, the Authority issued $3,865,000 in 2017C Series Sewer Revenue Federally Taxable Bonds, with interest rates ranging from 1.65% to 2.20% to terminate the fixed payor swap associated with the 2014 Series Sewer Revenue Bonds.

In April 2018, the Authority issued $13,450,000 in 2018 Series Sewer Revenue Bonds, with interest rates ranging from 3.00% to 3.12% to fund various capital projects.

In February 2020, the Authority issued $9,675,000 in 2020 Series Sewer Revenue Bonds, with interest rates ranging from 1.05% to 4.00% to currently refund the 2015 Series Sewer Revenue Bonds.

In December 2020, the Authority issued $9,545,000 in 2020A Series Sewer Revenue Bonds, with an interest rate of 2.00% to fund various capital projects.

In February 2021, the Authority issued $8,850,000 in 2021 Series Sewer Revenue Bonds, with an interest rate of 3.00% to fund various capital projects.

In March 2021, the Authority issued $6,515,000 in 2021A Series Sewer Revenue Bonds, with interest rates ranging from 1.25% to 2.00% to currently refund the 2016 Series Sewer Revenue Bonds.

The deferred charge on refunding from this transaction was $97,604 and will be amortized through 2028. This deferred refunding charge is included as a deferred outflow of resources on the statements of net position.

In March 2022, the Authority issued $9,000,000 in 2022 Series Sewer Revenue Bonds, with interest rate of 2.04% to currently refund the 2017 Series Sewer Revenue Bonds. The cash flow savings and economic gain from this refunding was approximately $160,000.

The bonds contain a provision that in the event of default, the Trustee may declare, upon the written request of holders of 25% or more in aggregate principal amount of the outstanding bonds, that outstanding principal of all bonds, if not due and payable, and any accrued interest shall be due and payable immediately.

A summary of changes in long-term debt for the year ended December 31, 2022 is as follows:

Long-Term Debt	Original Issue	Date of Final Maturity	Interest Rate	Balance January 1, 2022	Issued	Retired	Balance December 31, 2022
Revenue bonds:							
2015	9,995,000	11/1/2028	Variable	$ 315,000	$ -	$ -	$ 315,000
2017	8,900,000	11/1/2030	2.00% - 3.375%	8,800,000	-	8,800,000	-
2017A	5,293,000	11/1/2026	1.98 - 2.227%	3,066,000	-	561,000	2,505,000
2017B	20,680,000	11/1/2028	3.00 - 5.00 %	15,450,000	-	2,680,000	12,770,000
2018	13,450,000	11/1/2032	3.00 - 3.125%	13,450,000	-	-	13,450,000
2020	9,675,000	11/1/2028	1.05 - 4.00%	9,635,000	-	655,000	8,980,000
2020A	9,545,000	11/1/2034	2.00%	9,545,000	-	-	9,545,000
2021	8,850,000	11/1/2035	3.00%	8,850,000	-	-	8,850,000
2021A	6,515,000	11/1/2028	1.25 - 2.00%	6,155,000	-	505,000	5,650,000
2022	9,000,000	10/1/2029	2.04%	-	9,000,000	-	9,000,000
Total long-term debt				$ 75,266,000	$ 9,000,000	$ 13,201,000	71,065,000
Less: current portion							(4,576,000)
Long-term portion							66,489,000
Plus: Unamortized bond premium							3,144,143
Less: Unamortized bond discount							(160,081)
Long-term notes and bonds payable, net							$ 69,473,062

A summary of changes in long-term debt for the year ended December 31, 2021 is as follows:

Long-Term Debt	Original Issue	Date of Final Maturity	Interest Rate	Balance January 1, 2021	Issued	Retired	Balance December 31, 2021
Direct borrowings:							
Emmaus	$ 1,300,000	2/1/2021	Variable	$ 95,000	$ -	$ 95,000	$ -
Revenue bonds:							
2015	9,995,000	11/1/2028	Variable	315,000	-	-	315,000
2016	6,580,000	11/1/2028	2.00% - 2.375%	6,580,000	-	6,580,000	-
2017	8,900,000	11/1/2030	2.00% - 3.375%	8,850,000	-	50,000	8,800,000
2017A	5,293,000	11/1/2026	1.98 - 2.227%	3,601,000	-	535,000	3,066,000
2017B	20,680,000	11/1/2028	3.00 - 5.00 %	18,195,000	-	2,745,000	15,450,000
2018	13,450,000	11/1/2032	3.00 - 3.125%	13,450,000	-	-	13,450,000
2020	9,675,000	11/1/2028	1.05 - 4.00%	9,670,000	-	35,000	9,635,000
2020A	9,545,000	11/1/2034	2.00%	-	9,545,000	-	9,545,000
2021	8,850,000	11/1/2035	3.00%	-	8,850,000		8,850,000
2021A	6,515,000	11/1/2028	1.25-2.00%	-	6,515,000	360,000	6,155,000
Total long-term debt				$ 60,756,000	$ 24,910,000	$ 10,400,000	75,266,000
Less: current portion							(4,451,000)
Long-term portion							70,815,000
Plus: Unamortized bond premium							3,525,569
Less: Unamortized bond discount							(215,917)
Long-term notes and bonds payable, net							$ 74,124,652

The annual debt service requirements to maturity on the long-term debt, including principal and interest at December 31, 2022 are as follows:

Year Ending December 31,	2015 Series	2017A Series	2017B Series	2018 Series	2020 Series	2020A Series
2023	$ -	$ 596,000	$ 2,810,000	$ -	$ 675,000	$ -
2024	315,000	624,500	2,970,000	-	385,000	-
2025	-	610,000	3,105,000	-	725,000	-
2026	-	674,500	3,260,000	-	750,000	-
2027	-	-	310,000	-	3,190,000	-
2028-2032	-	-	315,000	13,450,000	3,255,000	1,955,000
2033-2035	-	-	-	-	-	7,590,000
Total	$ 315,000	$ 2,505,000	$ 12,770,000	$ 13,450,000	$ 8,980,000	$ 9,545,000

Year Ending December 31,	2021 Series	2021A Series	2022 Series	Total Principal	Interest	Total
2023	$ -	$ 495,000	$ -	$ 4,576,000	$ 2,377,550	$ 6,953,550
2024	-	475,000	95,000	4,864,500	2,281,974	7,146,474
2025	-	470,000	105,000	5,015,000	2,098,751	7,113,751
2026	-	450,000	100,000	5,234,500	1,891,516	7,126,016
2027	-	1,860,000	105,000	5,465,000	1,690,995	7,155,995
2028-2032	-	1,900,000	8,595,000	29,470,000	13,806,066	43,276,066
2033-2035	8,850,000	-	-	16,440,000	810,850	17,250,850
Total	$ 8,850,000	$ 5,650,000	$ 9,000,000	$ 71,065,000	$ 24,957,702	$ 96,022,702

6. Financed Purchases

During 2019, the Authority entered into five separate three-year lease agreements for excavating equipment and vehicles. The leases convey title of the equipment at the end of the lease term. The interest rates of the leases are 5.35%, 5.87%, 4.28%, 4.28%, and 4.48%. The Authority paid $190,360 in principal payments on the leases during 2021. As of December 31, 2021, the leases were paid in full.

7. Compensated Absences

Full-time permanent employees are granted vacation and personal leave benefits in varying amounts to specified maximums in accordance with the Authority's policy. Employees are entitled to all accrued vacation and personal leave balances at termination. Full-time permanent employees can accrue sick leave to specified maximums. Employees who retire from the Authority are entitled to a percentage of their accrued sick leave balance as cash payments or can convert their entitlement into extended healthcare coverage on a full-month basis.

The estimated amounts of vested vacation, personal leave, and sick benefits incurred during the year are included in employee benefits expenses. The estimated liability is reported as compensated absences in the accompanying statements of net position.

Changes to the compensated absences liability were as follows during the year ended December 31, 2022:

Beginning Balance	Additions	Reductions	Ending Balance
$ 1,012,691	$ 504,798	$ 548,951	$ 968,538

Changes to the compensated absences liability were as follows during the year ended December 31, 2021:

Beginning Balance	Additions	Reductions	Ending Balance
$ 995,185	$ 483,860	$ 466,354	$ 1,012,691

8. Pension Plan

The Authority has a contributory defined contribution pension plan (plan) administered by ICMA Retirement Corporation covering all full-time employees with six months of continuous employment and who have attained 21 years of age. Employees become 50% vested after being with the plan for one year. The vesting percentage increases 5% per year until the fifth year. Employees are 80% vested after six years and fully vested after seven years. The Authority contributes 10% of the employee's base salary for management and non-union employees and 5% for union employees. Union employees are required to

contribute 5% of their base salary. Effective July 1, 2022, employees are able to contribute an additional 2.5%. Management and non-union employees have no contribution requirements. Terms of the plan were established and may be amended by the Authority's Board of Directors. Employer contributions were $281,620 and $248,689 for the years ended December 31, 2022 and 2021, respectively.

9. Deferred Compensation Plan

The Authority offers its employees a deferred compensation plan (plan) administered by the ICMA Retirement Corporation and created in accordance with Internal Revenue Code Section 457. The plan, available to all Authority employees, permits them to defer a portion of their salary until future years. The deferred compensation is not available to employees until termination, retirement, death, or unforeseeable emergency.

As a result of legislative changes, all amounts of compensation deferred under the plan, all property and rights purchased with those amounts, and all income attributable to those amounts, property, or rights are (until paid or made available to the employee or other beneficiary) held in trust for the exclusive benefit of the participants and their beneficiaries, whereas, prior to these legislative changes, these amounts were solely the property rights of the Authority, subject only to the claims of the Authority's general creditors. As a result, the deferred compensation investments are not reported in the Authority's financial statements. Employee contributions for the years ended December 31, 2022 and 2021 were $60,427 and $70,496, respectively

10. Agreement with Employees

The Authority is a party to a collective bargaining agreement with Council 83, American Federation of State, County, and Municipal Employees, AFL-CIO, under the provisions of Act 195 of the Pennsylvania Legislature. The agreement establishes rates of pay, hours of work, procedures for resolution of differences, and other conditions of employment. The agreement was renegotiated in 2022 and is effective from July 1, 2022 to June 30, 2026.

11. Commitment

In February 2017, the Authority entered into a series of agreements with a third party to construct and operate a solar array and battery energy storage system. The third party

constructed and owns the system. The Authority is responsible for operating, maintaining, and repairing the system. The agreements cover a 30-year term, with options for the Authority to purchase the system at the end of years 6 and 10 for the fair market value of the system as determined by an independent appraiser. The Authority has committed to purchase 100% of metered energy produced by the system at rates starting at 9 cents per kilowatt hour from 2018-2020, 15 cents per kilowatt hour in 2021; then increasing 1.0% annually from 2022-2027 and 1.2% annually from 2028-2047.

The Authority is committed to construction contracts for the plant upgrade and odor control capital projects. The commitments as of December 31, 2022 totaled approximately $3.7 million.

SUPPLEMENTARY INFORMATION

UNIVERSITY AREA JOINT AUTHORITY

SUPPLEMENTARY SCHEDULE I
GENERAL AND ADMINISTRATIVE EXPENSES

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Salaries and wages	$ 708,780	$ 634,989
Payroll taxes	69,308	65,881
Employee benefits	514,966	458,771
Supplies and postage	56,146	53,767
Contractual services	66,051	42,417
Repairs and maintenance	62,275	53,307
Utilities	272,868	180,953
Employee provisions	73,185	48,616
Legal and accounting	108,436	79,112
Insurance	365,641	310,671
Miscellaneous	230,864	3,834
	$ 2,528,520	$ 1,932,318

UNIVERSITY AREA JOINT AUTHORITY

SUPPLEMENTARY SCHEDULE II
COMPARATIVE ANALYSIS OF WASTEWATER TREATMENT PLANT EXPENSES

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Laboratory:		
Salaries and wages	$ 196,880	$ 245,694
Payroll taxes	16,116	16,506
Employee benefits	50,775	54,636
Supplies	26,824	21,531
Repairs and maintenance	6,936	2,522
Subtotal	297,531	340,889
Physical Plant:		
Salaries and wages	514,599	528,071
Payroll taxes	41,212	37,804
Employee benefits	139,401	145,301
Supplies	76,034	69,693
Contractual services	18,624	33,649
Repairs and maintenance	529,334	387,904
Subtotal	1,319,204	1,202,422
Industrial Pre-treatment Program:		
Salaries and wages	72,895	74,635
Payroll taxes	5,575	5,710
Employee benefits	22,087	24,051
Supplies	-	12
Contractual services	50	1,950
Repairs and maintenance	888	-
Subtotal	101,495	106,358
Beneficial Reuse:		
Salaries and wages	28,028	32,777
Payroll taxes	2,144	2,507
Employee benefits	9,934	10,477
Supplies	638,177	494,577
Utilities	135,271	178,168
Contractual services	72,555	75,049
Repairs and maintenance	229,803	113,359
Subtotal	1,115,912	906,914

(Continued)

UNIVERSITY AREA JOINT AUTHORITY

SUPPLEMENTARY SCHEDULE II
COMPARATIVE ANALYSIS OF WASTEWATER TREATMENT PLANT EXPENSES
(Continued)

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Dewatering:		
Salaries and wages	148,090	185,427
Payroll taxes	12,728	14,322
Employee benefits	58,547	48,947
Supplies	98,571	59,950
Repairs and maintenance	207,528	15,119
Utilities	61,487	80,985
Subtotal	586,951	404,750
Compost:		
Salaries and wages	329,892	326,578
Payroll taxes	26,640	25,366
Employee benefits	64,766	63,900
Supplies	93,687	80,218
Contractual services	18,262	12,174
Repairs and maintenance	103,562	79,053
Utilities	319,762	319,996
Miscellaneous	4,922	6,218
Subtotal	961,493	913,503
Treatment Operations:		
Salaries and wages	785,071	764,556
Payroll taxes	60,880	58,722
Employee benefits	250,081	240,352
Supplies	771,497	615,939
Contractual services	340,013	366,818
Utilities	740,076	545,796
Miscellaneous	12,425	26,679
Subtotal	2,960,043	2,618,862
Total wastewater treatment plant expenses	$ 7,342,629	$ 6,493,698

(Concluded)

UNIVERSITY AREA JOINT AUTHORITY

SUPPLEMENTARY SCHEDULE III
COMPARATIVE ANALYSIS OF COLLECTION EXPENSES

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Inspection:		
Salaries and wages	$ 386,268	$ 343,703
Payroll taxes	27,536	26,395
Employee benefits	77,493	72,340
Supplies	4,074	2,366
Repairs and maintenance	8,694	20,098
Subtotal	504,065	464,902
Pump Station:		
Supplies	1,685	1,125
Repairs and maintenance	55,244	53,927
Utilities	52,331	48,378
Subtotal	109,260	103,430
Maintenance:		
Salaries and wages	1,254,896	1,126,494
Payroll taxes	94,203	86,651
Employee benefits	403,473	422,404
Supplies	16,980	13,354
Repairs and maintenance	268,654	188,208
Subtotal	2,038,206	1,837,111
Total collection expenses	$ 2,651,531	$ 2,405,443

UNIVERSITY AREA JOINT AUTHORITY

SUPPLEMENTARY SCHEDULE IV
COMPARATIVE ANALYSIS OF TRUSTEE FUNDS

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	2021
Trustee Funds - unrestricted:		
Revenue Fund	$ 1,687,481	$ 3,839,522
Bond Redemption and Improvement Fund	2,356,895	2,401,038
Total unrestricted funds	$ 4,044,376	$ 6,240,560
Trustee Funds - restricted for debt service operating reserve:		
Debt Service Reserve Fund	$ 6,697,580	$ 6,678,510
Debt Service Fund - 2015	239	238
Debt Service Fund - 2017	-	162
Debt Service Fund - 2017A	309	305
Debt Service Fund - 2017B&C	805	783
Debt Service Fund - 2018	164	159
Debt Service Fund - 2020	6,534	6,528
2020A Capitalized Interest	67,900	258,791
Debt Service Fund - 2020	3	2
Debt Service Fund - 2021	3	1
2021 Capitalized Interest	54,601	320,091
Debt Service Fund - 2021	1,017	1,015
Operating Expense Reserve Fund	308,307	308,238
Total restricted for debt service	$ 7,137,462	$ 7,574,823
Trustee Funds - restricted for capital projects:		
Construction Fund - 2020A	$ 5,379,618	$ 8,106,767
Construction Fund - 2021	8,819,390	8,818,949
Total restricted for capital projects	$ 14,199,008	$ 16,925,716

		Revenue - Summary				
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 Budget**	**2022 YTD**	**2023 Budget Request**		
Quarterly Charges	1040410-	$15,212,532.00	$11,636,666.04	$15,820,012.00		
Connection/Tap Fees	1040440-	$2,382,727.00	$2,813,403.36	$2,332,014.00		
Misc. Revenue	1040XXX-	$430,530.00	$247,548.66	$326,140.00		
TOTAL Revenue		**$18,025,789.00**	**$14,697,618.06**	**$18,478,166.00**		

Assumes an increase in the EDU rate from $104 per quarter to $108 per quarter, effective with the second quarter billing

		Expense - Summary				
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 Budget**	**2022 YTD**	**2023 Budget Request**	**Difference**	**% Change**
G&A Expense General	1050050-	$1,767,768.00	$1,799,718.69	$1,897,024.00	$129,256.00	7.31%
G&A IT	1050053-	$109,000.00	$84,856.58	$168,950.00	$59,950.00	55.00%
G&A Fleet/Fuel	1050054-	$215,000.00	$198,972.67	$265,000.00	$50,000.00	23.26%
Debt Service	1052052-	$6,815,481.80	$1,043,228.41	$6,682,964.00	-$132,517.80	-1.94%
Laboratory	1060019-	$324,040.00	$242,696.67	$344,841.00	$20,801.00	6.42%
Plant Maintenance	1060022-	$1,170,762.00	$998,982.71	$1,190,808.00	$20,046.00	1.71%
Main Station	1060023-	$114,000.00	$58,755.81	$114,000.00	$0.00	0.00%
IPP	1060025-	$116,498.00	$80,958.52	$121,957.00	$5,459.00	4.69%
Beneficial Reuse	1060028-	$951,415.00	$1,047,247.22	$997,837.00	$46,422.00	4.88%
Dewatering	1060029-	$590,998.00	$429,074.37	$546,762.00	-$44,236.00	-7.48%
Compost	1060030-	$992,867.00	$796,035.87	$897,403.00	-$95,464.00	-9.61%
Plant Operation	1060032-	$2,079,557.00	$2,146,279.49	$2,397,281.00	$317,724.00	15.28%
Collection Maintenance	1070021-	$1,846,553.00	$1,597,628.51	$2,024,835.00	$178,282.00	9.65%
Equipment Maintenance	1070022-	$86,000.00	$39,727.27	$88,000.00	$2,000.00	2.33%
Inspection	1070034-	$466,310.00	$427,427.26	$496,416.00	$30,106.00	6.46%
Pump Station	1070036-	$156,100.00	$97,511.84	$157,900.00	$1,800.00	1.15%
TOTAL EXPENDITURES		**$17,802,349.80**	**$11,089,101.89**	**$18,391,978.00**	$589,628.20	3.31%
Collection Capital	1045921-	$8,129,330.00	$1,543,548.86	$4,252,500.00		
Plant Capital	1045XXX-	$19,712,000.00	$1,674,369.11	$21,409,230.00		
G&A Capital	1045950-	$504,660.00	$102,170.92	$208,000.00		
TOTAL EXPENDITURES		**$28,345,990.00**	**$3,320,088.89**	**$25,869,730.00**		

Note:

~$13,750,000.00 of the Plant Capital Expense Detail will utilize Construction Fund Money.

~$13,000,000 New money Bod issue will be required

Four largest expense areas

Debt		$6,815,481.80		$6,682,964.00	-132,517.80	-1.94%
Payroll		$4,775,842.00		5,096,230.00	320,388.00	6.71%
Health		$1,191,687.00		1,224,591.00	32,904.00	2.76%
Power		$1,042,000.00		1,115,000.00	73,000.00	7.01%
		$13,825,010.80		**$14,118,785.00**	**293,774.20**	**2.12%**

		REVENUES - DETAIL		
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 Budget**	**2022 YTD**	**2023 Budget Request**
UAJA Revenue	1040410-4101	$10,418,532.00	$7,890,994.31	$10,819,244.00
Boro Revenue	1040410-4102	$4,100,000.00	$3,339,954.52	$4,300,000.00
PSU Revenue	1040410-4104	$190,000.00	$64,050.74	$190,000.00
PGM Revenue	1040410-4103	$379,000.00	$256,230.47	$385,768.00
Surcharge Revenue	1040410-4105	$125,000.00	$85,436.00	$125,000.00
Non-Taxable Compost Revenue	1040420-4201-N5001	$22,500.00	$38,129.00	$22,500.00
Taxable Compost Revenue	1040420-4201-N5002	$3,000.00	$7,782.99	$3,000.00
Sludge Disposal	1040420-4203	$25,000.00	$49,148.76	$50,000.00
Beneficial Reuse Water	1040425-4251	$20,000.00	$23,548.00	$24,000.00
Boro Maintenance	1040430-4301	$65,000.00	$54,814.00	$0.00
Connection Fee	1040440-4401	$20,000.00	$14,950.00	$20,000.00
Tap Fee - Plant	1040440-4402	$2,154,960.00	$2,740,646.30	$2,214,450.00
Tap Fee - Ghaner	1040440-4403	$13,846.00	$4,816.00	$11,137.00
Tap Fee - Rt. 26	1040440-4411	$121,475.00	$22,600.00	$33,900.00
Tap Fee - Circleville	1040440-4412	$43,327.00	$6,116.76	$0.00
Tap Fee - Valley Vista	1040440-4413	$26,905.00	$9,943.30	$41,527.00
Tap Fee - PGM Collection	1040440-4404	$2,214.00	$8,856.00	$11,000.00
IPP User Fee	1040440-4405	$3,800.00	$3,800.00	$3,800.00
Water Qual. Mgmt. Permit	1040440-4409	$500.00	$500.00	$500.00
Repair Permits	1040440-4410	$1,500.00	$1,175.00	$1,500.00
Inspection Fees	1040450-4407	$40,000.00	$34,427.43	$40,000.00
Retiree Cobra	1040451-4503	$20,000.00	$19,439.34	$22,000.00
Interest - General Checkbook	1040470-4701	$10.00	$570.02	$477.00
Interest Sweep Checking	1040470-4717	$500.00	$287.39	$498.00
Interest - Payroll	1040470-4702	$200.00	$70.94	$66.00
Interest - PLIGIT Checkbook	1040472-4703	$30.00	$8.85	$15.00
Interest - PLIGIT Plus	1040472-4719	$50.00	$54.42	$50.00
Interest-93 Debt Service Res.	1040474-4724	$75,000.00	$19,442.80	$20,000.00
Interest- Op. Expense Res.	1040474-4725	$2,000.00	$94.83	$100.00
Interest-93 Debt Service Fund	1040474-4726	$5,000.00	$87.30	$18.00
Interest- Revenue Fund	1040474-4727	$500.00	$138.03	$150.00
Interest - BRIF	1040474-4706	$20,000.00	$1,116.71	$4,816.00
Interest - Constr Fund 2020A	1040474-4733	$300.00	$289.69	$300.00
Interest Constr Fund 2021	1040474-4734	$400.00	$331.01	$350.00
Miscellaneous Receipts	1040480-4899	$3,000.00	$147,652.09	$10,000.00
Solar Maintenance	1040480-4909	$60,000.00	$30,000.00	$60,000.00
SREC	1040480-4910	$62,240.00	$55,453.10	$62,000.00
TOTAL REVENUES		**$18,025,789.00**	**$14,932,956.10**	**$18,478,166.00**

	1050050-GENERAL G & A EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET REQUEST**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1050050-5001	$268,222.00	$182,860.56	$300,546.00	$32,324.00	12.05%
Regular Labor	1050050-5002	$300,368.00	$268,015.27	$294,713.00	-$5,655.00	-1.88%
Vac,Sick,Etc.	various	included in above	$134,961.66	included in above		
FICA	1050050-5101	$35,253.00	$33,044.22	$36,906.00	$1,653.00	4.69%
Medicare	1050050-5102	$8,245.00	$7,727.96	$8,632.00	$387.00	4.69%
UC Tax	1050050-5201	$25,000.00	$19,342.94	$25,000.00	$0.00	0.00%
Group Health	1050050-5202	$154,603.00	$115,570.29	$132,688.00	-$21,915.00	-14.18%
Health Deductible	1050050-5208	$175,000.00	$150,158.86	$175,000.00	$0.00	0.00%
Pension	1050050-5203	$56,859.00	$53,216.92	$59,526.00	$2,667.00	4.69%
Retiree Cobra	1050050-5205	$20,000.00	$21,262.15	$22,000.00	$2,000.00	10.00%
Life Insurance	1050050-5207	$100,000.00	$92,864.03	$102,000.00	$2,000.00	2.00%
Office Supplies	1050050-5301	$15,000.00	$12,105.19	$20,000.00	$5,000.00	33.33%
Postage/Shipping	1050050-5302	$30,000.00	$32,309.99	$35,000.00	$5,000.00	16.67%
Janitorial Supplies	1050050-5303	$7,000.00	$4,091.82	$7,000.00	$0.00	0.00%
Petty Cash	1050050-5307	$200.00	$244.52	$200.00	$0.00	0.00%
Advertising	1050050-5401	$3,000.00	$641.60	$1,500.00	-$1,500.00	-50.00%
Audit	1050050-5402	$22,500.00	$22,410.88	$23,500.00	$1,000.00	4.44%
Retainer-Eng.	1050050-5405	$1,000.00	$1,000.00	$1,000.00	$0.00	0.00%
Legal	1050050-5406	$60,000.00	$72,452.09	$75,000.00	$15,000.00	25.00%
Insurance-Prop/WC	1050050-5408	$325,102.00	$398,755.00	$354,681.00	$29,579.00	9.10%
Outside Services	1050050-5499	$20,000.00	$56,197.61	$30,000.00	$10,000.00	50.00%
O&M Office Machines	1050050-5501-1054	$7,500.00	$3,061.53	$9,704.00	$2,204.00	29.39%
Communications	1050050-5601	$40,000.00	$34,136.59	$30,000.00	-$10,000.00	-25.00%
Training,Sem, Trav.	1050050-5701	$15,000.00	$12,679.97	$16,000.00	$1,000.00	6.67%
Memberships	1050050-5702	$8,000.00	$7,460.50	$8,500.00	$500.00	6.25%
Uniform/CDL/License	1050050-5703	$22,000.00	$13,853.53	$22,000.00	$0.00	0.00%
Vaccinations	1050050-5704	$8,000.00	$3,082.00	$8,000.00	$0.00	0.00%
Employee Relations	1050050-5706	$2,500.00	$3,995.95	$3,000.00	$500.00	20.00%
Meal Allowance	1050050-5707	$500.00	$100.27	$500.00	$0.00	0.00%
Safety Equipment	1050050-5708	$8,000.00	$7,387.26	$8,000.00	$0.00	0.00%
Drug/Alcohol Testing	1050050-5710	$1,000.00	$1,093.00	$1,300.00	$300.00	30.00%
Water- CTWA	1050050-6015	$8,000.00	$19,079.10	$12,000.00	$4,000.00	50.00%
Garbage	1050050-6017	$10,000.00	$4,330.67	$8,000.00	-$2,000.00	-20.00%
CNET	1050050-6019	$8,916.00	$8,851.00	$9,228.00	$312.00	3.50%
Misc. Expense	1050050-6006	$1,000.00	$1,238.76	$1,000.00	$0.00	0.00%
Custodian Services	1050050-####	$0.00	$0.00	$52,800.00	$52,800.00	
Pest Control	1050050-####	$0.00	$0.00	$2,100.00	$2,100.00	
TOTAL		**$1,767,768.00**	**$1,799,583.69**	**$1,897,024.00**	**$129,256.00**	**7.31%**

1050053-G & A INFORMATION TECHNOLOGY EXPENSE DETAIL						
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Internet Service	1050053-IT71	$5,000.00	$4,283.19	$7,850.00	$2,850.00	57.00%
Hardware	1050053-IT72	$34,000.00	$16,099.42	$33,250.00	-$750.00	-2.21%
Software	1050053-IT73	$70,000.00	$64,473.97	$107,350.00	$37,350.00	53.36%
IT Mobile	1050053-IT74	$0.00	$0.00	$20,500.00	$20,500.00	
TOTAL		**$109,000.00**	**$84,856.58**	**$168,950.00**	**$59,950.00**	**55.00%**
	1050054-G & A FLEET/FUEL EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Gen. Vehicle Maint.	1050054-5502	$70,000.00	$43,593.42	$80,000.00	$10,000.00	14.29%
Gasoline	1050054-5603-1006	$35,000.00	$34,203.34	$35,000.00	$0.00	0.00%
Diesel Fuel	1050054-5603-1008	$110,000.00	$120,875.91	$150,000.00	$40,000.00	36.36%
TOTAL		**$215,000.00**	**$198,672.67**	**$265,000.00**	**$50,000.00**	**23.26%**

	1052052-DEBT SERVICE EXPENDITURE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
93 Interest	1052052-5801	$2,351,281.80	#	$2,090,924.00	-260,357.80	-11.07%
93 Principal	1052052-5901	$4,451,000.00	#	$4,576,000.00	125,000.00	2.81%
Trustee Fee 15	1052052-6122	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 17A	1052052- 6125	$1,650.00	#	$1,750.00	100.00	6.06%
Trustee Fee 17B	1052052-6126	$1,650.00	#	$2,640.00	990.00	60.00%
Trustee Fee 18	1052052-6127	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 20	1052052-6128	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 20A	1052052-6129	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 21	1052052-6130	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 21A	1052052-6131	$1,650.00	#	$1,650.00	0.00	0.00%
Trustee Fee 22	1052052-6132	#		$1,750.00		
TOTAL		**$6,815,481.80**	**$0.00**	**$6,682,964.00**	**-132,517.80**	**-1.94%**
Total Principal 2023	$4,576,000					
Total Interest 2023	$2,090,924.00					
Total Trustee Fees 2023	$16,040.00					
Total	$6,682,964.00					

	1060019-LABORATORY EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060019-5001	$81,668.00	$55,460.86	$87,497.00	5,829.00	7.14%
Regular Labor	1060019-5002	$145,209.00	$95,786.66	$155,100.00	9,891.00	6.81%
Vac,Sick,Etc.	various	included in above	$11,489.60	included in above		
Overtime	1060019-5003	$1,000.00	$546.37	$1,000.00	0.00	0.00%
FICA	1060019-5101	$14,067.00	$10,296.72	$15,041.00	974.00	6.92%
Medicare	1060019-5102	$3,290.00	$2,408.19	$3,518.00	228.00	6.93%
Group Health	1060019-5202	$38,129.00	$27,203.66	$37,530.00	-599.00	-1.57%
Pension	1060019-5203	$15,427.00	$12,239.50	$16,505.00	1,078.00	6.99%
Small Eq./Tools	1060019-5305	$250.00	$13.34	$150.00	-100.00	-40.00%
Lab Supplies	1060019-5306	$22,000.00	$22,967.62	$25,000.00	3,000.00	13.64%
Equipment Maint.	1060019-5501	$3,000.00	$4,026.27	$3,500.00	500.00	16.67%
TOTAL		**$324,040.00**	**$242,438.79**	**$344,841.00**	20,801.00	6.42%

	1060022-TREATMENT PLANT MAINTENANCE EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060022-5001	$38,685.00	$50,192.82	$41,593.00	2,908.00	7.52%
Regular Labor	1060022-5002	$396,700.00	$245,802.16	$430,010.00	33,310.00	8.40%
Vac,Sick,Etc.	various	included in above	$105,020.20	included in above		
Overtime	1060022-5003	$8,000.00	$3,573.04	$7,000.00	-1,000.00	-12.50%
FICA	1060022-5101	$26,994.00	$26,207.58	$29,612.00	2,618.00	9.70%
Medicare	1060022-5102	$6,313.00	$6,128.98	$6,839.00	526.00	8.33%
Group Health	1060022-5202	$98,366.00	$83,379.60	$124,564.00	26,198.00	26.63%
Pension	1060022-5203	$23,704.00	$25,315.48	$25,660.00	1,956.00	8.25%
Supplies	1060022-5304	$5,000.00	$4,544.76	$5,000.00	0.00	0.00%
Small Eq/Tools	1060022-5305	$14,000.00	$10,336.12	$14,000.00	0.00	0.00%
Equip.Maintenance	1060022-5501	$190,000.00	$152,328.63	$134,750.00	-55,250.00	-29.08%
SCADA maint	1060022-5501-6174	$80,000.00	$46,989.26	$82,600.00	2,600.00	3.25%
UV maint	1060022-5501-6175	$55,000.00	$26,567.61	$32,000.00	-23,000.00	-41.82%
Bldg/Grnds	1060022-5503	$90,000.00	$63,593.56	$35,000.00	-55,000.00	-61.11%
Grit Removal	1060022-5508	$25,000.00	$13,211.57	$20,000.00	-5,000.00	-20.00%
Oil & Lubes	1060022-5603	$25,000.00	$21,454.38	$25,000.00	0.00	0.00%
Landscape	1060022-7511	$30,000.00	$31,667.75	$40,000.00	10,000.00	33.33%
Solar/Battery Maint	1060022-5501-6283	$58,000.00	$82,300.57	$120,000.00	62,000.00	106.90%
Solar Grazing	1060022-####		$0.00	$17,180.00	17,180.00	
TOTAL		**$1,170,762.00**	**$998,614.07**	**$1,190,808.00**	**20,046.00**	**1.71%**
	1060023-MAIN STATION EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Labor - Main St.	1060023-5002-B5001	included in Maintenance	$15,833.31	included in Maintenance		
OT - Main St.	1060023-5003-B5001	included in Maintenance	$0.00	included in Maintenance		
FICA - Main St.	1060023-5101-B5001	included in Maintenance	$981.70	included in Maintenance		
Medicare - Main St.	1060023-5102-B5001	included in Maintenance	$229.63	included in Maintenance		
Group Health - Main St	1060023-5202-B5001	included in Maintenance	$2,494.73	included in Maintenance		
Pension - Main St.	1060023-5203-B5001	included in Maintenance	$900.10	included in Maintenance		
O&M - Main St.	1060023-5505-B5001	$75,000.00	$14,196.18	$75,000.00	0.00	0.00%
Power - Main St.	1060023-5602-B5001	$39,000.00	$24,120.16	$39,000.00	0.00	0.00%
TOTAL		**$114,000.00**	**$38,316.34**	**$114,000.00**	**0.00**	**0.00%**

	1060025-INDUSTRIAL PRETREATMENT PROGRAM EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060025-5001	$81,668.00	$55,426.56	$87,497.00	5,829.00	7.14%
Vac, Sick, Etc.	various	included in above	$2,776.67	included in above		
FICA	1060025-5101	$5,063.00	$3,624.58	$5,425.00	362.00	7.15%
Medicare	1060025-5102	$1,184.00	$847.66	$1,269.00	85.00	7.18%
Group Health	1060025-5202	$17,516.00	$11,626.41	$14,616.00	-2,900.00	-16.56%
Pension	1060025-5203	$8,167.00	$5,846.15	$8,750.00	583.00	7.14%
Small Eq/Tools	1060025-5305	$150.00	$0.00	$400.00	250.00	166.67%
Analysis	1060025-5410	$2,500.00	$50.00	$3,000.00	500.00	20.00%
Eq. Maintenance	1060025-5501	$250.00	$481.99	$1,000.00	750.00	300.00%
TOTAL		**$116,498.00**	**$80,680.02**	**$121,957.00**	**5,459.00**	**4.69%**
	1060028-BENEFICIAL REUSE EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060028-5001	$38,685.00	$19,712.00	$41,593.00	2,908.00	7.52%
Vac, Sick, Etc.	various	included in above	$2,776.67	included in above		
FICA	1060028-5101	$2,399.00	$1,394.26	$2,579.00	180.00	7.50%
Medicare	1060028-5102	$561.00	$326.02	$603.00	42.00	7.49%
Group Health	1060028-5202	$8,901.00	$4,382.64	$9,902.00	1,001.00	11.25%
Pension	1060028-5203	$3,869.00	$2,248.87	$4,160.00	291.00	7.52%
Operational Supplies	1060028-5304	$15,000.00	$13,098.25	$17,000.00	2,000.00	13.33%
Small Eq/Tools	1060028-5305	$2,000.00	$1,330.16	$2,000.00	0.00	0.00%
Op. Sup. - Chemicals	1060028-5304-1065	$450,000.00	$461,202.10	$490,000.00	40,000.00	8.89%
Lab Analysis	1060028-5410	$10,000.00	$9,053.19	$10,000.00	0.00	0.00%
Equip. Maintenance	1060028-5501	$150,000.00	$350,771.02	$150,000.00	0.00	0.00%
Power	1060028-5602-1064	$200,000.00	$122,531.79	$200,000.00	0.00	0.00%
CTWA reimbursement	1060028-5605	$70,000.00	$58,420.25	$70,000.00	0.00	0.00%
TOTAL		**$951,415.00**	**$1,047,247.22**	**$997,837.00**	**46,422.00**	**4.88%**

	1060029-DEWATERING EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060029-5001	$38,685.00		$41,593.00	$2,908.00	7.52%
Regular Labor	1060029-5002	$139,039.00		$135,398.00	-$3,641.00	-2.62%
Vac,Sick,Etc	various	included in above		included in above		
Overtime	1060029-5003	$3,000.00		$3,500.00	$500.00	16.67%
FICA	1060029-5101	$11,019.00		$11,160.00	$141.00	1.28%
Medicare	1060029-5102	$2,577.00		$2,611.00	$34.00	1.32%
Group Health	1060029-5202	$55,358.00		$61,070.00	$5,712.00	10.32%
Pension	1060029-5203	$10,820.00		$10,930.00	$110.00	1.02%
Supplies	1060029-5304	$500.00		$500.00	$0.00	0.00%
Polymer	1060029-5304-1036	$70,000.00		$70,000.00	$0.00	0.00%
Eq. Maintenance	1060029-5501	$175,000.00		$125,000.00	-$50,000.00	-28.57%
Power	1060029-5602-1042	$85,000.00		$85,000.00	$0.00	0.00%
TOTAL		**$590,998.00**	**$0.00**	**$546,762.00**	**-$44,236.00**	**-7.48%**

	1060030-COMPOST EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060030-5001	$38,685.00		$41,593.00	$2,908.00	7.52%
Regular Labor	1060030-5002	$266,004.00		$257,860.00	-$8,144.00	-3.06%
Vac,Sick,Etc	various	included in above		included in above		
Overtime	1060030-5003	$24,500.00		$21,000.00	-$3,500.00	-14.29%
FICA	1060030-5101	$18,891.00		$20,039.00	$1,148.00	6.08%
Medicare	1060030-5102	$4,418.00		$4,687.00	$269.00	6.09%
Group Health	1060030-5202	$40,079.00		$52,171.00	$12,092.00	30.17%
Pension	1060030-5203	$17,169.00		$17,053.00	-$116.00	-0.68%
Supplies	1060030-5304	$2,000.00		$2,000.00	$0.00	0.00%
Compost Amendment	1060030-5304-1038	$100,000.00		$75,000.00	-$25,000.00	-25.00%
Small Eq/Tools	1060030-5305	$2,500.00		$2,500.00	$0.00	0.00%
Licns/Fees	1060030-5409	$5,500.00		$5,000.00	-$500.00	-9.09%
Analysis	1060030-5410	$10,000.00		$8,500.00	-$1,500.00	-15.00%
Marketing	1060030-5413	$0.00		$0.00	$0.00	0.00%
Eq. Maintenance	1060030-5501	$80,000.00		$80,000.00	$0.00	0.00%
Old Skid Steerer	1060030-5506-1032	$5,000.00		$5,000.00	$0.00	0.00%
Loader Maint.621G	1060030-5506-1033	$12,000.00		$12,000.00	$0.00	0.00%
Loader Maint.621E	1060030-5506-1071	$12,000.00		$5,000.00	-$7,000.00	-58.33%
Sweeper Maint.	1060030-5506-1055	$5,000.00		$5,000.00	$0.00	0.00%
Trommel Maint.	1060030-5506-1072	$10,000.00		$5,000.00	-$5,000.00	-50.00%
New Skid Steerer	1060030-5506-1062	$8,000.00		$8,000.00	$0.00	0.00%
Power	1060030-5602-1041	$155,000.00		$100,000.00	-$55,000.00	-35.48%
Propane/Natual Gas	1060030-5603-1007	$170,000.00		$170,000.00	$0.00	0.00%
Vector Control	1060030-5415	$6,121.00		$0.00	-$6,121.00	-100.00%
TOTAL		**$992,867.00**	**$0.00**	**$897,403.00**	**-$95,464.00**	**-9.61%**

1060032-TREATMENT PLANT OPERATION EXPENSE DETAIL						
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1060032-5001	$38,685.00	$19,712.00	$41,593.00	$2,908.00	7.52%
Regular Labor	1060032-5002	$646,941.00	$421,779.37	$690,759.00	$43,818.00	6.77%
Vac,Sick,Etc.	various	included in above	$59,140.12	included in above		
Overtime	1060032-5003	$60,000.00	$109,310.84	$115,000.00	$55,000.00	91.67%
Shift Labor	1060032-5004	$12,000.00	$9,171.97	$12,500.00	$500.00	4.17%
FICA	1060032-5101	$42,509.00	$38,648.98	$49,126.00	$6,617.00	15.57%
Medicare	1060032-5102	$9,942.00	$9,038.86	$11,489.00	$1,547.00	15.56%
Group Health	1060032-5202	$214,514.00	$173,243.12	$207,366.00	-$7,148.00	-3.33%
Pension	1060032-5203	$36,216.00	$21,957.36	$38,698.00	$2,482.00	6.85%
Supplies	1060032-5304	$500.00	$0.00	$500.00	$0.00	0.00%
Alum	1060032-5304-1034	$200,000.00	$189,685.52	$225,000.00	$25,000.00	12.50%
Carbon Supplement	1060032-5304-1070	$225,000.00	$365,723.54	$285,000.00	$60,000.00	26.67%
Stream Monitoring	1060032-5405-1053	$14,250.00	$14,250.00	$14,250.00	$0.00	0.00%
Licns/Fees	1060032-5409	$9,000.00	$12,425.00	$9,000.00	$0.00	0.00%
Analysis	1060032-5410	$20,000.00	$19,301.66	$22,000.00	$2,000.00	10.00%
Misc.Outside Serv.	1060032-5499	$50,000.00	$28,183.67	$50,000.00	$0.00	0.00%
Power	1060032-5602-1043	$500,000.00	$654,707.48	$625,000.00	$125,000.00	25.00%
TOTAL		**$2,079,557.00**	**$2,146,279.49**	**$2,397,281.00**	**$317,724.00**	**15.28%**

	1070021-COLLECTION MAINTENANCE EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1070021-5001	$137,774.00	$101,706.28	$141,812.00	4,038.00	2.93%
Regular Labor	1070021-5002	$1,047,000.00	$727,146.72	$1,119,501.00	72,501.00	6.92%
Vac,,Sick,Etc.	various	included in above	$161,907.32	included in above		
Overtime	1070021-5003	$25,000.00	$15,609.20	$30,000.00	5,000.00	20.00%
FICA	1070021-5101	$73,456.00	$60,360.30	$79,442.00	5,986.00	8.15%
Medicare	1070021-5102	$17,180.00	$14,116.39	$18,579.00	1,399.00	8.14%
Group Health	1070021-5202	$344,015.00	$265,954.09	$356,344.00	12,329.00	3.58%
Pension	1070021-5203	$66,128.00	$58,810.15	$70,157.00	4,029.00	6.09%
Small Eq./Tools	1070021-5305	$18,000.00	$12,702.48	$20,000.00	2,000.00	11.11%
Sewer Line Maint.	1070021-5504	$100,000.00	$154,605.68	$100,000.00	0.00	0.00%
Rental Equip.	1070021-ER01	$1,000.00	$0.00	$1,000.00	0.00	0.00%
Rental Lowboy	1070021-ER14	$7,000.00	$2,489.80	$5,000.00	-2,000.00	-28.57%
Patch Paving Contract	1070021-PV01	$10,000.00	$21,605.60	$20,000.00	10,000.00	100.00%
GIS and Mapping	1070021-####	$0.00	$0.00	$63,000.00	63,000.00	
TOTAL		**$1,846,553.00**	**$1,597,014.01**	**$2,024,835.00**	**178,282.00**	**9.65%**
	1070022-CONSTRUCTION EQUIPMENT MAINTENANCE EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Small Equipment Maint.	1070022-5501	$6,000.00	$4,851.62	$8,000.00	2,000.00	33.33%
Large Equipment Maint.	1070022-5506	$80,000.00	$34,875.65	$80,000.00	0.00	0.00%
TOTAL		**$86,000.00**	**$39,727.27**	**$88,000.00**	**2,000.00**	**2.33%**

	1070034-INSPECTION EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Supervisor Labor	1070034-5001	$137,774.00	$101,706.63	$141,812.00	4,038.00	2.93%
Regular Labor	1070034-5002	$216,167.00	$159,433.69	$230,740.00	14,573.00	6.74%
Vac,Sick,Etc.	various	included in above	$68,324.78	included in above		
Overtime	1070034-5003	$11,000.00	$9,986.40	$11,000.00	0.00	0.00%
FICA	1070034-5101	$21,945.00	$18,492.41	$23,750.00	1,805.00	8.23%
Medicare	1070034-5102	$5,132.00	$4,324.84	$5,555.00	423.00	8.24%
Group Health	1070034-5202	$45,206.00	$40,116.60	$53,340.00	8,134.00	17.99%
Pension	1070034-5203	$24,586.00	$21,509.46	$25,719.00	1,133.00	4.61%
Operational Supplies	1070034-5304	$4,000.00	$2,630.96	$4,000.00	0.00	0.00%
Small Eq./Tools	1070034-5305	$500.00	$287.00	$500.00	0.00	0.00%
TOTAL		**$466,310.00**	**$426,812.77**	**$496,416.00**	**30,106.00**	**6.46%**
	1070036-COLLECTION PUMP STATION EXPENSE DETAIL					
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**	**Difference**	**Perentage**
Small Eq./Tools	1070036-5305	$1,000.00	$129.96	$1,000.00	0.00	0.00%
Equipment Maintenance	1070036-5501	$20,000.00	$2,614.70	$20,000.00	0.00	0.00%
Pump Station Maint.	1070036-5505	$70,000.00	$37,713.02	$70,000.00	0.00	0.00%
Clasters Maint.	1070036-5505-B5002	$300.00	$0.00	$300.00	0.00	0.00%
North Maint.	1070036-5505-B5003	$300.00	$6,064.00	$300.00	0.00	0.00%
South Maint.	1070036-5505-B5004	$300.00	$6,064.00	$300.00	0.00	0.00%
Power	1070036-5602	$62,000.00	$43,151.00	$62,000.00	0.00	0.00%
Clasters Power	1070036-5602-B5002	$500.00	$88.49	$500.00	0.00	0.00%
South Power	1070036-5602-B5004	$500.00	$288.55	$500.00	0.00	0.00%
Pump Station Propane	1070036-5603	$1,200.00	$1,398.12	$3,000.00	1,800.00	150.00%
TOTAL		**$156,100.00**	**$97,511.84**	**$157,900.00**	**1,800.00**	**1.15%**

	1045921-CIP COLLECTION MAINTENANCE EXPENDITURE DETAIL			
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
Meeks Lane Engineering	1045921-5405-6247	$432,000.00	$38,250.00	$432,000.00
Meeks Lane Gravity & Force	1045921-0021-6247	$1,000,000.00	$0.00	$1,000,000.00
Meeks Lane Pump Station	1045921-5505-6247	$5,200,000.00	$0.00	$1,500,000.00
Meeks Lane Truck Rental	1045921-ER05-6247	$100,000.00	$0.00	$100,000.00
Meeks Lane Trench Paving	1045921-PV01-6247	$80,000.00	$0.00	$30,000.00
Meeks Lane Bike Path Pav.	1045921-PV02-6247	$100,000.00	$0.00	$40,000.00
N. Oak Lane West Project	1045921-0021-####	$0.00	$0.00	$196,000.00
N. Oak Lane Trench Paving	1045921-PV01-####	$0.00	$0.00	$10,000.00
N. Oak Lane Truck Rental	1045921-ER05-####	$0.00	$0.00	$50,000.00
Princeton Dr. Project	1045921-0021-6337	$40,000.00	$15,026.91	$25,000.00
Princeton Dr. Engineering	1045921-5405-6337	$9,600.00	$9,000.00	$1,500.00
Princeton Dr. Trench Paving	1045921-PV01-6337	$5,000.00	$0.00	$5,000.00
Scott Rd Upgrade Eng	1045921-5405-6300	$66,200.00	$26,025.87	$10,400.00
Scott Rd PS Upgrade	1045921-5505-6300	$540,900.00	$730,629.18	$161,100.00
Haymarket Project	1045921-0021-####	$0.00	$0.00	$30,000.00
East Hillside Project	1045921-0021-####	$0.00	$0.00	$235,000.00
East Hillside Truck Rental	1045921-ER05-####	$0.00	$0.00	$50,000.00
UAJA Conduit Truck Rental	1045921-ER05-6335	$30,000.00	$0.00	$0.00
N. Oak Lane Truck Rental	1045921-ER05-6336	$30,000.00	$23,375.00	$0.00
Scott Rd Trench Paving	1045921-PV01-6300	$30,000.00	$21,316.00	$0.00
Whitehall Rd Trench Paving	1045921-PV01-6311	$20,000.00	$0.00	$0.00
UAJA Conduit Trench Paving	1045921-PV01-6317	$50,000.00	$0.00	$0.00
N. Oak Lane Trench Paving	1045921-PV01-6336	$10,000.00	$0.00	$0.00
Scott Rd Force Main	1045921-0021-6300	$100,000.00	$70,885.08	$0.00
UAJA Conduit Project	1045921-0021-6315	$173,320.00	$0.00	$0.00
N. Oak Lane Project	1045921-0021-6336	$94,000.00	$102,501.29	$0.00
Whitehall Rd Eng	1045921-5405-6310	$2,400.00	$2,400.00	$0.00
UAJA Conduit Engineering	1045921-5405-6316	$15,910.00	$0.00	
Shiloh Relocation	1045921-5405-6271	$0.00	$125.00	$0.00
Scott Rd. Truck Rental	1045921-ER05-6300	$0.00	$3,966.25	$0.00
TOTAL		**$8,129,330.00**	**$1,043,500.58**	**$3,876,000.00**
1045922-CIP CONSTRUCTION EQUIPMENT MAINTENANCE EXPENDITURE DETAIL				
BUDGET ITEM		**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
New Inspector Trucks (2)	1045922-0021-####	$0.00	$0.00	$110,000.00
New Track Hoe	1045922-0021-####	$0.00	$0.00	$212,500.00
Message Boards (2)	1045922-0021-####	$0.00	$0.00	$28,000.00
Trench Boxes	1045922-0021-####	$0.00	$0.00	$26,000.00
Collection Truck 1 Pymt (3/3)	1045922-0021-6288	$0.00	$0.00	$0.00
New Unit 22 (1/3)	1045922-0021-6328	$11,821.00	$31,549.00	$0.00
New T-Tag (2/3)	1045922-0021-6329	$0.00	$0.00	$0.00
New Jet Truck	1045922-0021-6330	$172,095.00	$457,541.44	$0.00
Skid Steer Rockhound	1045922-0021-6331	$11,000.00	$10,957.84	$0.00
New T-Tag (1/3)	1045922-0021-6343	$28,000.00	$0.00	$0.00
TOTAL		**$222,916.00**	**$500,048.28**	**$376,500.00**
Grand Total		**$8,352,246.00**	**$1,543,548.86**	**$4,252,500.00**

	1045919-CIP LABORATORY EXPENDITURE DETAIL			
	ACCOUNT NUMBER	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
		$0.00	**$0.00**	**$0.00**
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
AWT HS Pump Project	1045924-0024-####	$0.00	$0.00	$35,400.00
AWT HS Pump Project Eng.	1045924-5405-####	$0.00	$0.00	$6,940.00
Booster Station Upgrade	1045924-0024-####	$0.00	$0.00	$60,280.00
Booster Station Upgrade Eng.	1045924-5405####	$0.00	$0.00	$17,820.00
Main Pump Station Rehab.	1045924-0024-####	$0.00	$0.00	$500,000.00
Main Pump Station Rehab. Eng	1045924-5405-####	$0.00	$0.00	$45,000.00
Mountain Tanks Project	1045924-0024-####	$0.00	$0.00	$108,240.00
Mountain Tanks Project Eng.	1045924-5405-####	$0.00	$0.00	$8,800.00
Utility Water Pumps Project	1045924-0024-####	$0.00	$0.00	$253,000.00
Utility Water Pumps Eng.	1045924-5405-####	$0.00	$0.00	$20,240.00
New Oil Building	1045924-0024-####	$0.00	$0.00	$190,000.00
New Oil Building Eng.	1045924-5405-####	$0.00	$0.00	$30,000.00
Aeration System Upgrade	1045924-0024-6304	$0.00	$0.00	$141,360.00
Aeration System Upgrade Eng	1045924-5405-####	$0.00	$0.00	$4,000.00
Generator ATS Upgrade	1045924-5405-####	$0.00	$0.00	$42,300.00
Ozone Disinfection Eng	1045924-0024-6324	$125,000.00	$39,513.50	$116,000.00
Ozone Disinfection Project	1045924-0024-6325	$4,700,000.00	$993,277.16	$4,230,000.00
Dissolved Phosphorus Study	1045924-0024-6333	$65,000.00	$41,368.40	$100,000.00
Headworks Building Eng.	1045924-5405-####	$0.00	$0.00	$36,050.00
Headworks Building Project	1045924-0024-6338	$530,000.00	$0.00	$770,000.00
5,000 LB Forklift	1045924-0024-6320	$21,000.00	$29,001.63	$0.00
Truck Plow	1045924-0024-6321	$0.00	$7,233.15	$0.00
Switchgear Project	1045924-0024-6334	$0.00	$4,000.00	$0.00
TOTAL		**$5,441,000.00**	**$1,114,393.84**	**$6,715,430.00**
	1045928-CIP BENEFICIAL REUSE EXPENDITURE DETAIL			
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
MF Membrane replace	1045928-0028-6239	$180,000.00	$0.00	$90,000.00
GDK Wetlands Dechlor Eng.	1045928-5405-####	$0.00	$0.00	$25,000.00
Kissinger Meadow Eng.	1045928-5405-6332	$50,000.00	$0.00	
Kissinger Meadow Project	1045928-0028-6332	$150,000.00	$0.00	
Harris Reuse	1045928-5405-6261	$0.00	$725.00	$0.00
TOTAL		**$380,000.00**	**$725.00**	**$115,000.00**
	1045929-CIP DEWATERING EXPENDITURE DETAIL			
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
TOTAL		**$0.00**	**$0.00**	**$0.00**
	1045930-CIP COMPOST EXPENDITURE DETAIL			
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
Solids Drying Project Engineer	1045930-0030-6326	$491,000.00	#	$570,000.00
Solids Drying Project	1045930-0030-6327	$13,400,000.00	#	$14,008,800.00
Odor Control	1045930-5405-6245	$0.00	$4,428.00	$0.00
TOTAL		**$13,891,000.00**	**$4,428.00**	**$14,578,800.00**
1045931-CIP INDUSTRIAL PRETREATMENT PROGRAM EXPENDITURE DETAIL				
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
TOTAL		**$0.00**	**$0.00**	**$0.00**
	1045950- CIP G & A EXPENDITURE DETAIL			
BUDGET ITEM	**ACCOUNT NUMBER**	**2022 BUDGET**	**2022 YTD**	**2023 BUDGET REQUEST**
IT System Upgrade- Hardware	1045950-0050-6043	$90,000.00	$10,184.45	$30,000.00
IT System Upgrade- Software	1045950-0050-6047	$100,000.00	$0.00	$30,000.00
IT System Upgrade- Morefield	1045950-0050-6339	$133,000.00	$1,582.47	$133,000.00
Inspector Office Upgrade/Desk	1045950-0050-####	$0.00	$0.00	$15,000.00
IT System Upgrade- Tyler Tech.	1045950-0050-6340	$50,660.00	$0.00	$0.00
IT System Upgrade- Servers	1045950-0050-6341	$100,000.00	$90,404.00	$0.00
New Admin SUV	1045950-0050-6342	$31,000.00	$0.00	$0.00
TOTAL		**$504,660.00**		**$208,000.00**
GRAND TOTAL		**$20,216,660.00**	**$1,119,546.84**	**$21,617,230.00**

UNIVERSITY AREA JOINT AUTHORITY

University Area Joint Authority

Debt Book

Fiscal Year 2023

Prepared by:

Scott Shearer, *Managing Director*

Karli Keisling, *Senior Analyst*

pfm

PFM Financial Advisors LLC
100 Market Street
Harrisburg, PA 17101
717.231.6265 (P)
www.pfm.com

UNIVERSITY AREA JOINT AUTHORITY
SUMMARY OF OUTSTANDING INDEBTEDNESS

Debt Service Requirements

1	2	3	4	5	6	7	8	9	10	11
	FIRST LIEN DEBT									
		JSSB								
Fiscal Year Ended	Revenue Bonds Series of 2015	Revenue Bonds Series A of 2017 [1]	Revenue Bonds Series B of 2017	Revenue Bonds Series of 2018	Revenue Bonds Series of 2020	Revenue Bonds Series A of 2020	Revenue Bonds Series of 2021	Revenue Bonds Series A of 2021	Revenue Bonds Series of 2022	**Total Debt Service**
12/31/2023	7,481	645,599	3,442,300	416,419	883,050	190,900	265,500	606,500	209,175	**6,666,924**
12/31/2024	322,481	662,298	3,461,800	416,419	566,050	190,900	265,500	576,600	304,175	**6,766,223**
12/31/2025		687,070	3,448,300	416,419	890,650	190,900	265,500	562,100	312,275	**6,773,214**
12/31/2026		714,970	3,448,050	416,419	893,900	190,900	265,500	534,200	305,175	**6,769,114**
12/31/2027			335,050	416,419	3,318,900	190,900	265,500	1,935,200	308,175	**6,770,144**
12/31/2028			330,750	416,419	3,320,100	190,900	265,500	1,938,000	306,075	**6,767,744**
12/31/2029				416,419		190,900	265,500		5,928,450	**6,801,269**
12/31/2030				3,531,419		190,900	265,500		2,815,200	**6,803,019**
12/31/2031				6,372,969		190,900	265,500			**6,829,369**
12/31/2032				4,418,906		2,145,900	265,500			**6,830,306**
12/31/2033						6,566,800	265,500			**6,832,300**
12/31/2034						1,198,500	5,630,500			**6,829,000**
12/31/2035							3,589,550			**3,589,550**
12/31/2036										
Totals	329,963	2,709,937	14,466,250	17,238,225	9,872,650	11,629,300	12,140,550	6,152,600	10,488,700	**85,028,175**
Principal*:	315,000	2,505,000	12,770,000	13,450,000	8,980,000	9,545,000	8,850,000	5,650,000	9,000,000	**71,065,000**
Call Date:	5/1/2020	Anytime	11/1/2025	5/1/2026	5/1/2025	11/1/2025	11/1/2026	10/1/2026	4/1/2027	
Reset Rate:		60% WSJ Prime								
Purpose:	Cur Ref 2010	Cur Ref 2011A	Cur Ref 2014 FRN	New Money	Cur Ref 2015	New Money	New Money	Cur Ref 2016	Cur Ref 2017	

[1] *Assumes a 7-Year Fixed Rate of 1.98% through November 1, 2024, variable thereafter at the cap rate of 6.00%*

** Outstanding as of May 3, 2023*

UNIVERSITY AREA JOINT AUTHORITY
Series of 2015

1 DATE	2 OUTSTANDING PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			3,740.63	3,740.63	
11/1/2023		4.000	3,740.63	3,740.63	7,481.25
5/1/2024			3,740.63	3,740.63	
11/1/2024	315,000	2.375	3,740.63	318,740.63	322,481.25
TOTALS	**315,000**		**14,962.50**	**329,962.50**	**329,962.50**

Final Maturity: November 1, 2024

UNIVERSITY AREA JOINT AUTHORITY
Series A of 2017 (JSSB)

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023		1.980	24,799.50	24,799.50	
11/1/2023	596,000	1.980	24,799.50	620,799.50	645,599.00
5/1/2024		1.980	18,899.10	18,899.10	
11/1/2024	624,500	1.980	18,899.10	643,399.10	662,298.20
5/1/2025		6.000	38,535.00	38,535.00	
11/1/2025	610,000	6.000	38,535.00	648,535.00	687,070.00
5/1/2026		6.000	20,235.00	20,235.00	
11/1/2026	674,500	6.000	20,235.00	694,735.00	714,970.00
TOTALS	**2,505,000**		**204,937.20**	**2,709,937.20**	**2,709,937.20**

Final Maturity: November 1, 2026

** Assumes a 7-Year Fixed Rate of 1.98% through November 1, 2024, variable thereafter at the cap rate of 6.00%*

UNIVERSITY AREA JOINT AUTHORITY
Series B of 2017

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			316,150.00	316,150.00	
11/1/2023	2,810,000	5.000	316,150.00	3,126,150.00	3,442,300.00
5/1/2024			245,900.00	245,900.00	
11/1/2024	2,970,000	5.000	245,900.00	3,215,900.00	3,461,800.00
5/1/2025			171,650.00	171,650.00	
11/1/2025	3,105,000	5.000	171,650.00	3,276,650.00	3,448,300.00
5/1/2026			94,025.00	94,025.00	
11/1/2026	3,260,000	5.000	94,025.00	3,354,025.00	3,448,050.00
5/1/2027			12,525.00	12,525.00	
11/1/2027	310,000	3.000	12,525.00	322,525.00	335,050.00
5/1/2028			7,875.00	7,875.00	
11/1/2028	315,000	5.000	7,875.00	322,875.00	330,750.00
TOTALS	**12,770,000**		**1,696,250.00**	**14,466,250.00**	**14,466,250.00**

Final Maturity: November 1, 2028

UNIVERSITY AREA JOINT AUTHORITY
Series of 2018

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			208,209.38	208,209.38	
11/1/2023			208,209.38	208,209.38	416,418.75
5/1/2024			208,209.38	208,209.38	
11/1/2024			208,209.38	208,209.38	416,418.75
5/1/2025			208,209.38	208,209.38	
11/1/2025			208,209.38	208,209.38	416,418.75
5/1/2026			208,209.38	208,209.38	
11/1/2026			208,209.38	208,209.38	416,418.75
5/1/2027			208,209.38	208,209.38	
11/1/2027			208,209.38	208,209.38	416,418.75
5/1/2028			208,209.38	208,209.38	
11/1/2028			208,209.38	208,209.38	416,418.75
5/1/2029			208,209.38	208,209.38	
11/1/2029			208,209.38	208,209.38	416,418.75
5/1/2030			208,209.38	208,209.38	
11/1/2030	3,115,000	3.000	208,209.38	3,323,209.38	3,531,418.75
5/1/2031			161,484.38	161,484.38	
11/1/2031	6,050,000	3.125	161,484.38	6,211,484.38	6,372,968.75
5/1/2032			66,953.13	66,953.13	
11/1/2032	4,285,000	3.125	66,953.13	4,351,953.13	4,418,906.25
TOTALS	**13,450,000**		**3,788,225.00**	**17,238,225.00**	**17,238,225.00**

Final Maturity: November 1, 2032

UNIVERSITY AREA JOINT AUTHORITY
Series of 2020

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			104,025.00	104,025.00	
11/1/2023	675,000	4.000	104,025.00	779,025.00	883,050.00
5/1/2024			90,525.00	90,525.00	
11/1/2024	385,000	4.000	90,525.00	475,525.00	566,050.00
5/1/2025			82,825.00	82,825.00	
11/1/2025	725,000	3.000	82,825.00	807,825.00	890,650.00
5/1/2026			71,950.00	71,950.00	
11/1/2026	750,000	2.000	71,950.00	821,950.00	893,900.00
5/1/2027			64,450.00	64,450.00	
11/1/2027	3,190,000	2.000	64,450.00	3,254,450.00	3,318,900.00
5/1/2028			32,550.00	32,550.00	
11/1/2028	3,255,000	2.000	32,550.00	3,287,550.00	3,320,100.00
TOTALS	**8,980,000**		**892,650.00**	**9,872,650.00**	**9,872,650.00**

Final Maturity: November 1, 2028

UNIVERSITY AREA JOINT AUTHORITY
Series A of 2020

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			95,450.00	95,450.00	
11/1/2023			95,450.00	95,450.00	190,900.00
5/1/2024			95,450.00	95,450.00	
11/1/2024			95,450.00	95,450.00	190,900.00
5/1/2025			95,450.00	95,450.00	
11/1/2025			95,450.00	95,450.00	190,900.00
5/1/2026			95,450.00	95,450.00	
11/1/2026			95,450.00	95,450.00	190,900.00
5/1/2027			95,450.00	95,450.00	
11/1/2027			95,450.00	95,450.00	190,900.00
5/1/2028			95,450.00	95,450.00	
11/1/2028			95,450.00	95,450.00	190,900.00
5/1/2029			95,450.00	95,450.00	
11/1/2029			95,450.00	95,450.00	190,900.00
5/1/2030			95,450.00	95,450.00	
11/1/2030			95,450.00	95,450.00	190,900.00
5/1/2031			95,450.00	95,450.00	
11/1/2031			95,450.00	95,450.00	190,900.00
5/1/2032			95,450.00	95,450.00	
11/1/2032	1,955,000	2.000	95,450.00	2,050,450.00	2,145,900.00
5/1/2033			75,900.00	75,900.00	
11/1/2033	6,415,000	2.000	75,900.00	6,490,900.00	6,566,800.00
5/1/2034			11,750.00	11,750.00	
11/1/2034	1,175,000	2.000	11,750.00	1,186,750.00	1,198,500.00
TOTALS	**9,545,000**		**2,084,300.00**	**11,629,300.00**	**11,629,300.00**

Final Maturity: November 1, 2034

UNIVERSITY AREA JOINT AUTHORITY
Series of 2021

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
5/1/2023			132,750.00	132,750.00	
11/1/2023			132,750.00	132,750.00	265,500.00
5/1/2024			132,750.00	132,750.00	
11/1/2024			132,750.00	132,750.00	265,500.00
5/1/2025			132,750.00	132,750.00	
11/1/2025			132,750.00	132,750.00	265,500.00
5/1/2026			132,750.00	132,750.00	
11/1/2026			132,750.00	132,750.00	265,500.00
5/1/2027			132,750.00	132,750.00	
11/1/2027			132,750.00	132,750.00	265,500.00
5/1/2028			132,750.00	132,750.00	
11/1/2028			132,750.00	132,750.00	265,500.00
5/1/2029			132,750.00	132,750.00	
11/1/2029			132,750.00	132,750.00	265,500.00
5/1/2030			132,750.00	132,750.00	
11/1/2030			132,750.00	132,750.00	265,500.00
5/1/2031			132,750.00	132,750.00	
11/1/2031			132,750.00	132,750.00	265,500.00
5/1/2032			132,750.00	132,750.00	
11/1/2032			132,750.00	132,750.00	265,500.00
5/1/2033			132,750.00	132,750.00	
11/1/2033			132,750.00	132,750.00	265,500.00
5/1/2034			132,750.00	132,750.00	
11/1/2034	5,365,000	3.000	132,750.00	5,497,750.00	5,630,500.00
5/1/2035			52,275.00	52,275.00	
11/1/2035	3,485,000	3.000	52,275.00	3,537,275.00	3,589,550.00
TOTALS	**8,850,000**		**3,290,550.00**	**12,140,550.00**	**12,140,550.00**

Final Maturity: November 1, 2035

UNIVERSITY AREA JOINT AUTHORITY
Series A of 2021

1	2	3	4	5	6	7	8
DATE	PRINCIPAL (1)	RATE	PRINCIPAL (2)	RATE	INTEREST	SEMI-ANNUAL DEBT SERVICE	PROPOSED FISCAL YEAR DEBT SERVICE
4/1/2023					55,750.00	55,750.00	
10/1/2023	495,000	2.000			55,750.00	550,750.00	606,500.00
4/1/2024					50,800.00	50,800.00	
10/1/2024	475,000	2.000			50,800.00	525,800.00	576,600.00
4/1/2025					46,050.00	46,050.00	
10/1/2025	270,000	2.000	200,000	1.250	46,050.00	516,050.00	562,100.00
4/1/2026					42,100.00	42,100.00	
10/1/2026	450,000	2.000			42,100.00	492,100.00	534,200.00
4/1/2027					37,600.00	37,600.00	
10/1/2027	1,860,000	2.000			37,600.00	1,897,600.00	1,935,200.00
4/1/2028					19,000.00	19,000.00	
10/1/2028	1,900,000	2.000			19,000.00	1,919,000.00	1,938,000.00
TOTALS	**5,450,000**		**200,000**		**502,600.00**	**6,152,600.00**	**6,152,600.00**

5,650,000

Final Maturity: October 1, 2028

UNIVERSITY AREA JOINT AUTHORITY
Series of 2022

1 DATE	2 PRINCIPAL	3 RATE	4 INTEREST	5 SEMI-ANNUAL DEBT SERVICE	6 PROPOSED FISCAL YEAR DEBT SERVICE
4/1/2023			104,587.50	104,587.50	
10/1/2023			104,587.50	104,587.50	209,175.00
4/1/2024			104,587.50	104,587.50	
10/1/2024	95,000	2.000	104,587.50	199,587.50	304,175.00
4/1/2025			103,637.50	103,637.50	
10/1/2025	105,000	2.000	103,637.50	208,637.50	312,275.00
4/1/2026			102,587.50	102,587.50	
10/1/2026	100,000	2.000	102,587.50	202,587.50	305,175.00
4/1/2027			101,587.50	101,587.50	
10/1/2027	105,000	2.000	101,587.50	206,587.50	308,175.00
4/1/2028			100,537.50	100,537.50	
10/1/2028	105,000	2.500	100,537.50	205,537.50	306,075.00
4/1/2029			99,225.00	99,225.00	
10/1/2029	5,730,000	2.500	99,225.00	5,829,225.00	5,928,450.00
4/1/2030			27,600.00	27,600.00	
10/1/2030	2,760,000	2.000	27,600.00	2,787,600.00	2,815,200.00
TOTALS	**9,000,000**		**1,488,700.00**	**10,488,700.00**	**10,488,700.00**

Final Maturity: October 1, 2030

Disclosures:

PFM is the marketing name for a group of affiliated companies providing a range of services. All services are provided through separate agreements with each company. This material is for general information purposes only and is not intended to provide or give a specific recommendation. Financial advisory services are provided by PFM Financial Advisors LLC which is a registered municipal advisor with the Securities and Exchange Commission (SEC) and the Municipal Securities Rulemaking Board (MSRB) under the Dodd-Frank Act of 2010. Swap advisory services are provided by PFM Swap Advisors LLC which is registered as a municipal advisor with both the MSRB and SEC, a commodity trading advisor with the Commodity Futures Trading Commission, and a member of the National Futures Association. Consulting services are provided through PFM Group Consulting LLC. PFM financial modeling platform for strategic forecasting is provided through PFM Solutions LLC. For more information regarding PFM's services or entities, please visit www.pfm.com.

The information and any analyses contained in this presentation are taken from, or based upon, information obtained from the recipient or from publicly available sources, the completeness and accuracy of which has not been independently verified, and cannot be assured by PFM. The information and any analyses in these materials reflect prevailing conditions and PFM's views as of this date, all of which are subject to change. To the extent projections and financial analyses are set forth herein, they may be based on estimated financial performance prepared by or in consultation with the recipient and are intended only to suggest reasonable ranges of results. Opinions, results, and data presented are not indicative of future performance. Actual rates may vary based upon market conditions at the time of pricing. The printed presentation is incomplete without reference to the oral presentation or other written materials that supplement it. To the extent permitted by applicable law, no employee or officer of PFM's financial advisory business, nor any of PFM's affiliated companies, accept any liability whatsoever for any direct or consequential loss arising from negligence or from any use of this presentation or its contents. Any municipal financial product or financial strategy referenced may involve significant risks, including, but not limited to: market, interest rate, or credit risk, and may not be suitable for all clients. The ultimate decision to proceed with any transaction rest solely with the client.

UNIVERSITY AREA JOINT AUTHORITY

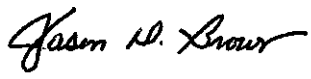
CENTRE COUNTY, PENNSYLVANIA

2022 ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT

Submitted by:

Cory R. Miller
Executive Director

Prepared by:



Jason D. Brown
Assistant Executive Director

TABLE OF CONTENTS

	Page
Introduction	1
Description of Sewerage System	1
Report Data	2
Hydraulic Loading	2
Projection of Hydraulic Loadings	2
Organic Loading	3
Projection of Organic Loadings	3
Overload Reduction Plan	3
Wastewater Collection System Extensions	4
Wastewater Collection System Monitoring, Maintenance, Repair And Rehabilitation	4
TABLE 1 – Collection System Extensions	5
Industrial Waste Information	5
TABLE 2 – Industrial Wastewater Discharge Permits	6
Condition of the Wastewater Collection System	6
Infiltration/Inflow Reduction Program	6
Condition of the Wastewater Pumping (Lift) Stations	7
TABLE 3 – Pumping Station Capacities and Usage	8
Flow Measuring and Recording Equipment	8
Sludge Processing and Management	8
TABLE 4 – Sludge Disposal Summary	9
Class A Beneficial Reuse Water	9
TABLE 5 – Breakdown of Reuse Water Use in 2021	9
Class C Beneficial Reuse Water	10
NPDES Permit #PA0026239, Part B, Section I, C	10
APPENDIX A – State College Borough Chapter 94 Information Worksheet	
APPENDIX B – Flow and Loading Summary and Data Sheets	
APPENDIX C – Pretreatment Annual Report	
APPENDIX D – Sewer System Map Showing Extensions	
APPENDIX E – Comparison of Pumping Rates to Flows	
APPENDIX F – Flow Measurement Equipment Calibrations	
EXHIBIT A - Hydraulic Loading Data and Graph	
EXHIBIT B - Organic Loading Data and Graph	

Introduction

This report has been prepared and submitted to the Pennsylvania Department of Environmental Protection to summarize the hydraulic and organic loadings to the University Area Joint Authority's (UAJA) Spring Creek Pollution Control Facility and to assess the current and future planning needs of the wastewater collection and treatment system. As required by Chapter 94, Municipal Wasteload Management, Title 25 Rules and Regulations, the report presents record data and projects organic loading and hydraulic data for the next five years.

Description of Sewerage System

The University Area Joint Authority (UAJA) provides sewage collection and treatment to College, Harris, Patton and Ferguson Townships in Centre County, Pennsylvania. The UAJA treatment facility also provides sewage treatment to the State College Sewer Authority (SCSA) which provides sewage collection for the Borough of State College. The SCSA sewers are maintained by the Borough of State College. A report concerning the Borough of State College System is included as APPENDIX A.

The UAJA collection system includes a total of approximately two hundred sixty three (263) miles of mainline sewer ranging in size from eight (8) inch diameter to forty-eight (48) inch diameter pipe and approximately five thousand seven hundred and fourteen (5,714) manholes ranging in depth from four (4) feet to thirty-eight (38) feet. There are eighteen (18) lift stations with pump motor horsepower ratings ranging from 2.0 hp to 200.0 hp currently in operation. The system is comprised of approximately seventy two percent (72%) PVC pipe, twelve percent (12%) vitrified clay pipe, ten percent (10%) ABS truss pipe and six percent (6%) ductile iron pipe.

The UAJA Treatment Facility was constructed in 1969 with a design capacity of 3.84 MGD. In 1992, the Stage IV Addition Project under WQM Permit No. 1489412 was completed. This Project increased the treatment capacity to 6.0 MGD and 10,000 pounds of BOD per day. In 1998, the plant was organically re-rated to a capacity of 15,012 pounds of BOD per day. Another organic re-rate was completed in 1999 increasing the organic capacity of the facility to 20,516 pounds of BOD per day. The Beneficial Reuse expansion in 2001 under WQM Permit 1400408 increased the hydraulic loading to 10.62 MGD and the organic loading to 22,518 pounds of BOD per day. Discharge to Spring Creek is limited to 6.0 MGD as an annual average. In 2013 the plant was organically re-rated to an organic capacity of 50,000 pounds of BOD per day. Treatment processes include flow metering, screening and grit removal followed by primary clarification, A2/O™ activated sludge, final clarification including supplemental alum addition for phosphorus removal, tertiary mono-media filtration, ultra-violet disinfection, and discharge to Spring Creek. Primary sludge and waste activated sludge are blended, dewatered by centrifuges and then composted. The finished compost is distributed using several DEP approved methods. The reuse portion of the flow is diverted from the secondary clarifier effluent. It is pretreated

by a 500 micron screen, then it is pumped to the Advanced Water Treatment (AWT) building where it is filtered with microfiltration, treated with ozone, and filtered by reverse osmosis. Before going into the reuse water distribution system the water is disinfected by UV light.

Report Data

The data presented in this report was obtained from the 2022 operating records and discharge monitoring reports (DMR's) maintained by the facility operator. A copy of the monthly flow and loading summary as well as copies of individual monthly data sheets are provided in APPENDIX B. Data for the previous four years of operation was obtained from the 2018, 2019, 2020 and 2021 Chapter 94 reports.

Hydraulic Loading

The UAJA plant has a permitted hydraulic design capacity (maximum monthly design flow) of 10.62 MGD according to our Part II permit issued under Chapter 91. The annual average flow in 2022 was 5.31 MGD. Exhibit A, including a table of data and the Hydraulic Loading Graph, presents the hydraulic loading to the plant for each of the past five years, the three-month maximum average hydraulic loading, a projection of the hydraulic loading for each of the next five years, a projection of the peak loading on the plant for each of the next five years, and the permit approved hydraulic capacity.

During 2022, the three-month maximum average hydraulic loading to the plant was 5.92 MGD recorded from February through April of 2022. The ratio of three-month maximum to average annual flow for 2022 was calculated to be 1.11.

Projection of Hydraulic Loadings

Hydraulic loadings for the period 2023 to 2027 were projected based upon the data from the previous five years (2018-2022) and the expected number of new connections to the system over the next five years. A five-year average value of 132 gallons per day, per dwelling unit, was multiplied by the anticipated number of dwelling units to be connected to the system in each of the next five years to determine the projected hydraulic loading. The future peak flow was calculated by multiplying the projected annual average flow by the average ratio of maximum to average flows recorded for the previous five years.

Organic Loading

The organic design capacity of the UAJA plant according to the Part II permit issued under Chapter 91 is 50,000 pounds of BOD per day. Influent organic loading is calculated based upon the results of five-day biological oxygen demand (BOD_5) analyses of 24-hour composite samples. The monthly average organic loadings for the years 2018 through 2022 were calculated as an arithmetic average of the analyses performed during each month after converting the results of each analysis from mg/L BOD to lbs/day BOD using the average flow recorded on the day of the analysis.

During 2022, the annual average organic loading to the wastewater treatment plant was 21,336 pounds of BOD per day. The peak month organic loading of 25,775 pounds of BOD per day was recorded in October of 2022. The ratio of peak organic loading to average daily loading for 2022 was calculated to be 1.21. The organic loading data is summarized in table and graphic form in Exhibit B of this report.

Projection of Organic Loadings

The organic loads shown for Calendar Year 2022 are significantly elevated and outside the historical averages for the facility. Based on this, the Authority undertook a review of the influent testing and their laboratory methods to determine if the data was factual and if the facility had seen a significant increase in influent BOD. Based on the Authority research and the utilization of a 3rd party laboratory for split sampling, it appears that the actual influent results are lower than reported by the Authority as BOD test results were erroneously inflated. As such, the organic loadings for Calendar Year 2022 are suspect and likely inflated by 115% to 125%. The Authority is aggressively pursuing their laboratory methods and is making corrections to have normalized data moving forward.
A summary of the organic loading projections is included in Exhibit B.

Overload Reduction Plan

The current treatment facilities are sufficient to prevent overload conditions. Capacity at the treatment facility is rated 10.62 MGD and 50,000 lb BOD/day. The Authority's collection system also has sufficient capacity. UAJA uses a Inflow/Infiltration (I/I) reduction crew that routinely searches out and corrects sources of I/I. Three sewer interceptors were identified as overloaded in the 2009 Act 537 Plan update. Upgrades to the Slab Cabin and Puddintown Road sections were completed in 2010. The Big Hollow force main was completed in 2014.

Wastewater Collection System Extensions

System extensions completed during 2022 are listed on Part A of Table 1, and shown on the attached system map in APPENDIX D. Extensions in the planning or construction stage during 2023 are listed on Part B of Table 1. The increase in the number of EDUs expected for each extension is also indicated.

Wastewater Collection System Monitoring, Maintenance, Repair and Rehabilitation

The following work was completed during 2022:

Mainline cleaned	63,896 ft.
Mainline Replacement	3,450 ft.
Manhole Re-lining	0
TV Inspection	141,916 ft.
Manholes Inspected	1,366
Manholes Repaired	0
Manhole Castings Adj./Rep.	74
Grouted	0 MH's & 0 Joints
Lateral Repair	13

The following work is anticipated for 2023:

1) W. North Oak Lane – replace 1,700 ft. of mainline as well as 33 laterals.
2) Princeton Drive- replace 519 ft. of mainline as well as 60 ft. of laterals.
3) East Hillside Drive- replace 1,800 ft. of mainline as well as 25 laterals.

The State College Borough's report on collection system maintenance is included in APPENDIX A.

Table 1

Part A: 2022 Collection System Extensions Constructed

	WQM No.	EDU's Planned	/ Current
Meyer Dairy	UAJA-21-04	7	7
Grays Pointe Ph. 6, Section D2	UAJA-20-06	46	4
Aspen Heights, Squirrel Dr.	UAJA-21-03	272	272
TOTAL		325	283

Part B: 2023 Sewer Extensions Planned for Future Connection

	WQM No.	EDU's Planned	Yr. Const.
Pine Hall Traditional Town Dev.	UAJA-14-06	170	2023
Benjamin Heights	Unknown	7	2023
Grays Pointe, Ph. 7	UAJA-23-01	36	2023
Canterbury Crossing, 4 & 5	UAJA-22-05	26	2023
Evergreen View Subdivision	UAJA-22-03	41	2023
Patton Crossing, Ph. 2	UAJA-22-04	1	2023
Whitehall Road Park Ph. 1	UAJA-19-04	6	2023
Farmstead View Subdivision	Unknown	6	2023
Toftrees West/Mt. Nittany Med.	UAJA-22-06	34	2023
Rhodes Lane	Unknown	5	2023
TOTAL		332	

Industrial Waste Information

An Industrial Pretreatment Program, as stipulated by Federal Regulation [40CFR 403.8(a)], was approved by EPA on January 15, 1997. Significant Industrial Users (SIU's) of Authority systems are regulated by permits issued by the Authority. SIU's are required to conduct a minimum of one sampling event per quarter; some are required to sample once per month. All samples are analyzed for UAJA local limit parameters as well as some industry specific parameters. Occasionally we test businesses that are not SIUs or Categorical Industries to obtain data on their waste characteristics. The Authority continues to pursue and implement other industrial pollution prevention measures. Permits that were in effect in 2022 are listed in Table 2. The 2022 Pretreatment Annual Report is included as APPENDIX C.

The Authority continues to pursue and implement other industrial pollution prevention measures. Permits that were in effect in 2022 are listed in Table 2. The 2022 Pretreatment Annual Report is included as APPENDIX C.

TABLE 2

INDUSTRIAL WASTEWATER DISCHARGE PERMITS

Permit No.	Permittee	Requirements
IPP-03	API Technology 1900 West College Avenue State College, Pa 16803	Metal Finishing (categorical) Pretreatment required
IPP-05	Mount Nittany Medical Center 1800 East Park Avenue State College, PA 16803-6797	Hospital No Pretreatment required
IPP-11	Cintas of State College 2700 Caroleon Industrial Drive State College, PA 16801	Commercial Laundry Pretreatment required
IPP-13	Chemcut Corporation 500 Science Park Road State College, PA 16803	Metal Finishing (categorical) Pretreatment required

Condition of the Wastewater Collection System

The overall condition of the system is good. The Authority has made significant progress in reducing I/I and will continue those efforts through rigorous inspection and regular maintenance.

There was one spill reported on November 10, 2002 to DEP involving a pressure line from the Scott Rd lift station.

Infiltration/Inflow Reduction Program

The Authority has an aggressive I/I program. UAJA staff install and maintain portable flow meters, operate TV inspection equipment, perform manhole inspections, and record all inspection activities and data regarding I/I sources discovered. Eight portable flow meters and a laptop computer are used to record the data.

All lift stations are equipped with Run Time Meters (RTM's), which allows calculation of flow and in effect adds 18 permanent flow meters to the collection system.

The approach with this program is to look at the entire collection system, starting at the treatment plant and working progressively outward to the far reaches of the system. Flow monitors are installed to look at the I/I contribution from several large basins. The basin with the largest contribution is then selected for more intense search and study. These efforts include manhole inspections, TV inspections, and smoke and/or dye testing to identify the sources. Immediate repairs are made where possible. Flow meter data is then used to document the improvement following the remediation effort.

Condition of the Wastewater Pumping (Lift) Stations

The Collection System contains eighteen (18) lift stations. They are all in adequate working condition. These are listed in Table 3, with capacities and percentage usage during 2022. APPENDIX E provides comparisons of maximum pumping rates to present maximum flows and 2-year maximum flows as required by 94.12(a)(7).

All lift stations are equipped with elapsed time meters. Hour meter readings from each station were recorded for the period January 1, 2022 to December 31, 2022. The total number of hours, when compared to the number of hours in the year, indicates the percent of usage for each station. Big Hollow station usage percentage was derived from actual flow records rather than the hour meter readings because frequently two pumps operate simultaneously. To estimate peak flows, the average percent usage for each station was multiplied by a peaking factor of 2.0 for the system.

TABLE 3

UAJA PUMPING STATION CAPACITIES AND USAGE

Station	Type	Capacity	Hours	Usage	Peak
Trout Road (Main)	dry well/wet well	22.8 MGD	7,734	29.4%	
Aspen Hts.	submersible	0.16 MGD	833.0	9.5%	19.0%
Fox Hill Road	submersible	0.24 MGD	125.1	1.4%	2.9%
Ghaner Rd	submersible	0.63 MGD	2,355.0	26.9%	53.8%
Graysdale 2A	submersible	0.11 MGD	842.5	9.6%	19.2%
Graysdale 2B	submersible	0.11 MGD	872.9	10.0%	20.0%
Harris Drive	submersible	0.26 MGD	642.7	7.3%	14.6%
Haymarket	submersible	0.12 MGD	1,735.5	19.8%	39.6%
Kaywood	submersible	0.26 MGD	1,082.8	12.4%	24.8%
Marywood	submersible	0.21 MGD	440.1	5.0%	10.0%
Outer Drive	submersible	0.26 MGD	227.0	2.6%	5.2%
Persia	submersible	0.10 MGD	215.9	2.5%	5.0%
Piney Ridge	submersible	0.25 MGD	750.1	8.6%	17.2%
Scenery Park	submersible	0.098MGD	401.2	4.6%	9.2%
Scott Road	submersible	0.37 MGD	1,449.0	16.5%	33.0%
Scott Road	booster	0.36 MGD	1,366.5	15.6%	31.2%
Shiloh Road	dry well/wet well	0.36 MGD	816.2	9.3%	18.6%
St. Ives Place	submersible	0.13 MGD	467.8	5.3%	10.6%
The Yards	submersible	0.25MGD	1,262.0	14.4%	28.8%

			Million Gallons	Usage
Big Hollow	dry well/wet well	18.7 MGD	710.397	10.4 %

State College Sewer Authority

The SCSA has no lift stations in their Collection System.

Flow Measuring and Recording Equipment

Documentation of flow metering and recording equipment calibration is provided in APPENDIX F.

Sludge Processing and Management

The Spring Creek Pollution Control Facility produces primary and waste activated sludge, which is dewatered and composted. The in-vessel composting process was constructed during 1990-1992 and went into service in March 1992 and was expanded and upgraded in 2005. All compost is disposed of through UAJA's PAG07 permit #4826. Sludge disposal in 2022 is summarized in Table 4.

TABLE 4

SLUDGE DISPOSAL SUMMARY-2021

End Use	Wet Tons Sludge	Dry Tons Sludge	Cubic Yards Compost
Compost-Beneficial Use	9,771	2,215	9,696

Class A Beneficial Reuse Water

Class A Reuse water is produced at UAJA by filtering secondary clarified wastewater effluent with 3 Microfiltration units. This is followed by ozone treatment and Reverse Osmosis filtration to produce a very pure Reuse product. In 2022, 371,526,330 gallons of Class A reuse occurred. Users of Class A Reuse water are Cintas Commercial Laundry, Centre Hills Country Club 27 hole golf course, Best Western Motel, RedLine Speed Shine Car Wash, Kissinger Farm, the Gordon D. Kissinger Meadow, the UAJA Pilot Wetland and the Mountain View Country Club. A monthly breakdown of use is provided in the Table 5.

TABLE 5

BREAKDOWN OF REUSE WATER USE IN 2022 (1000 gallons)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Best Western	24	30	36	76	36	36	30	44	32	33	31	29	437
Centre Hills	0	0	0	1331	2128	5962	5962	5783	3883	3338	1086	0	29470
Cintas	490	510	521	617	539	405	485	585	552	573	594	512	6383
Red Line	501	557	526	520	592	438	414	328	294	312	337	361	5180
Stewarts	0	0	0	0	10.5	0.6	2.7	1.5	12.0	0	0	0	27.3
UAJA Wetland	132	345	257	120	2338	2295	3886	4666	4867	3903	4394	9224	36427
GDK Park	12938	18411	19145	25877	17946	4352	15515	23403	25863	30584	36854	27421	258309
Kissinger	2079	2132	2242	2907	2142	1811	1988	2105	2490	2097	2246	2562	26801
UAJA Maint	2	3	3	2	2	2	2	1	1	1	1	1	21
Mtn. View CC	0	0	0	137	313	1198	3005	2456	828	362	169	0	8468

Maintenance is done on all filtration units periodically to clean the filters. In 2022, MF #1 was cleaned 14 times with caustic, MF #2 was cleaned 17 times with caustic and MF #3 was cleaned 11 times with caustic, MF #4 was cleaned 15 times with caustic, MF #5 was cleaned 21 times with caustic and MF #6 17 times with caustic. All MF units received one acid cleaning as well. The Reverse Osmosis Membranes are also cleaned periodically. Both caustic and acidic cleans are done as conditions warrant. In 2022, 10 caustic cleans and 2 acid cleans were performed on the RO #1 and 6 caustic cleans and 2 acid cleans were performed on RO #2.

Class C Beneficial Reuse Water

The remaining water treated at UAJA in 2022 qualifies as Class C reuse water. It is used to sustain or augment the flow of Spring Creek, a high quality cold-water fishery.

NPDES Permit #PA0026239, Part B, Section I, C

Average Annual Flow	5.298 MGD
Average Influent BOD5	484.0 mg/L
Average Effluent CBOD5	4.2 mg/L
Primary Sludge Wasted	11,158,000 gallons
Secondary Sludge Wasted	20,160,000 gallons
Average WAS Concentration	15,076 mg/L
Total Biosolids Generated	See Table 4

Total Volume of Hauled-In Residual and Municipal Waste Received by source:

Centre Hall/Potter Sewer Authority	41,500 gallons
Port Matilda Borough Authority	181,500 gallons
Huston Township	80,000 gallons
Septic/Holding Tanks (Robinson Septic)	494,000 gallons
Septic/Holding Tanks (Wasson Septic)	156,050 gallons

APPENDIX A

State College Borough

Chapter 94

Information Worksheet

BOROUGH OF STATE COLLEGE

243 South Allen Street, State College, PA 16801-4806

March 22, 2023

Jason Brown, Assistant Executive Director
University Area Joint Authority
1576 Spring Valley Road
State College, PA 16801

RE: 2022 Chapter 94 Report

Dear Mr. Brown:

As requested, attached is the completed questionnaire for the 2022 Chapter 94 report.

If you require additional information or have any questions, please feel free to contact me at 814-441-1309.

Sincerely,

John L. Keeler Jr.
Engineering Technician
State College Borough

ITEM 2 – PLAN TO REDUCE OVERLOAD

a. The following is a plan and schedule for reducing present or anticipated hydraulic or organic overload conditions within the municipal sewer system, if applicable.

Task to be Completed	by (year)	Resulting Reduction (MGD or lbs/day BOD)
N/A		

b. Attach any detailed plan of action and schedule to locate and remove excessive inflow/infiltration from your sewer system, if applicable.

ITEM 3 – INDUSTRIAL WASTES

a. Enclose a copy of any new or modified ordinances or resolutions governing industrial waste discharges.

N/A

b. Discuss your program of monitoring industrial waste discharges.

UAJA has provided a questionnaire that is to be completed by applicant in the planning stage design

c. The following customers discharge industrial wastes (Significant Industrial Users only)

N/A

d. Discuss any known or suspected problems in the sewer system caused by industrial discharges.

N/A

ITEM 6 – SEWER SYSTEM CONDITION AND CAPACITY

a. Briefly discuss the condition of the sewer system and indicate any part of the system where the conveyance capacity is exceeded or will be exceeded in the next five years. Rehabilitation or cleaning work, which is underway, planned, or required, should also be discussed.

Overall, the system is in good condition. The Borough continues with its routine maintenance schedule. TV inspections are performed daily which provides additional and detailed monitoring of the system. Also, the GIS mapping system provides the Authority with an efficient method of scoping out problem areas and scheduling projects accordingly.

Currently, the Borough does not experience any areas in which the conveyance system has exceeded its capacity. A study is performed each time a development is proposed to prevent future capacity issues.

Projects for the upcoming year are now being planned based on conventional TV inspections. These projects will include trenchless methods such as pipe bursting, cured-in-place-pipe, and folded and formed PVC as well as dig and replace. The projects will also include replacing the service connections from the mainline to the curb.

2022 State College Borough Crew and Contractor Lateral Repairs		
Location	**Work Performed**	**Length (LF) of Lateral**
1130 Dorum Avenue	Replaced Lateral	43'
118 E. South Hills Avenue	Replaced Lateral	22'
815 S. Garner Street	Replaced Lateral	16'
610 E. Irvin Avenue	Replaced Lateral	20'
143 W. Fairmount Avenue	Replaced Lateral	15'
306 W. Nittany Avenue	Sliplined Lateral	30'
711 W. Beaver Avenue	Sliplined Lateral	29'
146 N. Atherton Street	Replaced Lateral	41'
140 N. Atherton Street	Replaced Lateral	33'
126 N. Atherton Street	Replaced Lateral	30'
124 N. Atherton Street	Replaced Lateral	40'
101 N. Atherton Street	Replace Lateral	50'
118 S. Atherton Street	Replaced Lateral	28'
400 W. Beaver Avenue	Replaced Lateral	40'
218 S Atherton Street	Replaced Lateral	30'
224 S. Atherton Street	Replaced Lateral	30'
228 S. Atherton Street	Replaced Lateral	28'
231 S. Atherton Street	Replaced Lateral	25'
234 S. Atherton Street	Replaced Lateral	28'
236/238 S. Atherton Street	Replaced Lateral	30'
242/244 S. Atherton Street	Replaced Lateral	33'
248/250 S. Atherton Street	Replaced Lateral	33'
252/254 S. Atherton Street	Replaced Lateral	48'
255 S. Atherton Street	Replaced Laterals	33' & 22'
300 S. Atherton Street	Replaced Lateral	32'
301 S. Atherton Street	Replaced Lateral	21'
306 S. Atherton Street	Replaced Lateral	24'
315 S. Atherton Street	Replaced Lateral	22'
318 S. Atherton Street	Replaced Laterals	21' & 25'
321 S. Atherton Street	Replaced Lateral	40'
324 S. Atherton Street	Replaced Lateral	24'
327 S. Atherton Street	Replaced Lateral	24'
328 S. Atherton Street	Replaced Lateral	25'
333 S. Atherton Street	Replaced Lateral	23'
334 S. Atherton Street	Replaced Lateral	23'

2022 State College Borough Crew and Contractor Mainline Repairs			
Pipe	**Location**	**Description**	**LF Replaced**
	Highland Alley	Replaced/upgraded as part of Proj. 03-2022 S Patterson Reconstruction	30
SS-285	N. Atherton St.	Fully replaced during Atherton 153 proj 2022	190
SS-1446	N. Atherton St.	Fully replaced new & all lateral stubs on northbound/campus side removed during Atherton 153 proj 2022	275
SS-283	S. Atherton St.	Fully replaced during Atherton 153 proj 2022	261
SS-284	S. Atherton St.	Fully replaced new during Atherton 153 proj 2022	190
SS-306	S. Atherton St.	Fully replaced new during Atherton 153 project in 2022	230
SS-568	S. Atherton St.	Fully replaced new during Atherton 153 project in 2022	210
SS-569	S. Atherton St.	Fully replaced new during Atherton 153 project in 2022	430
SS-707	S. Atherton St.	Replaced as part of Atherton 153 Proj Fall 2022	170
SS-708	S. Atherton St.	Replaced as part of Atherton 153 Proj Fall 2022	185
SS-790	S. Atherton St.	Replaced as part of Atherton 153 proj. 10/2022	345
SS-791	S. Atherton St.	Replaced as part of Atherton 153 proj. 10/2022	335
SS-792	S. Atherton St.	Replaced new as part of Atherton 153 Proj. in Sept. 2022	200
SS-793	S. Atherton St.	Replaced new as part of Atherton 153 Proj. Sept 2022	180
SS-794	S. Atherton St.	Replaced new as part of Atherton 153 Proj. 9/2022	202
SS-971	S. Atherton St.	Replaced as part of Atherton 153 Proj. Nov. 2022	355
SS-972	S. Atherton St.	Replaced new as part of Atherton 153 Project in 2022	350
SS-	S. Atherton St.	New SS pipe installed during Atherton 153 Proj 2022	45
SS-332	S. Patterson St.	Replaced & upgraded for 03-2022 Patterson Reconstruct proj.	345
SS-337	S. Patterson St.	Replaced/upgraded for Proj. 03-2022 S Patterson Reconstruction	185
SS-338	S. Patterson St.	Replaced/upgraded for Proj. 03-2022 S Patterson Reconstruction	215
	W. Beaver Ave.	New SS pipe installed during Atherton 153 Proj 2022	45
	W. Beaver Ave.	approx. 5 LF of PVC to tie into existing main when new MH DB-2317 was installed as part of Proj. 03-2022 S Patterson Reconstruct.	4
	W. Beaver Ave.	Approx. 5 LF of PVC to tie into existing main when new MH DB-2317 was installed for Proj. 03-2022 S Patterson Reconstruct	5
SS-286	W. College Ave.	Fully replaced new during Atherton 153 Proj 2022	65
	W. College Ave.	Replaced during Atherton 153 Sept 2022	65
	W. Nittany Ave.	Replaced as part of Atherton 153 Proj Fall 2022	37

2022 State College Borough Contractor Mainline Sliplining			
Pipe	**Location**	**Description**	**LF Lined**
SS-773	Westerly Pkwy.	CIPP Lined	113
SS-774	Westerly Pkwy.	CIPP Lined	127
SS-775	Westerly Pkwy.	CIPP Lined	169
SS-776	Westerly Pkwy.	CIPP Lined	296
SS-777	Westerly Pkwy.	CIPP Lined	115
SS-978	Westerly Pkwy.	CIPP Lined	397
SS-1466	Westerly Pkwy.	CIPP Lined	17
SS-859	Westerly Pkwy.	CIPP Lined	105
SS-862	Westerly Pkwy.	CIPP Lined	193

APPENDIX B

Flow and Loading Summary and Data Sheets

January 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.0	478	19933
2	5.0	586	24436
3	4.8	348	13931
4	4.7	531	20814
5	5.0	432	18014
6	4.8	616	24660
7	4.8		
8	5.2		
9	5.8	319	15431
10	5.7	525	24957
11	5.5	609	27935
12	5.6	326	15226
13	5.6	644	30077
14	5.6		
15	5.4		
16	5.4	565	25445
17	5.6	369	17234
18	5.6	502	23445
19	6.4	333	17774
20	5.5	289	13256
21	5.3		
22	5.5		
23	5.2	325	14095
24	5.2	461	19993
25	5.5	531	24357
26	5.5	593	27201
27	5.4	605	27247
28	5.1		
29	5.3		
30	5.4	539	24274
31	5.1	296	12590
Total	165.5	10822	482326
Average	5.34	470.5	20970.7

23 days

31-Day Loading	650091

February 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.1	627	26669
2	5.2	530	22985
3	9.9	272	22458
4	8.6		
5	7.3		
6	6.7	327	18272
7	6.3	845	44398
8	5.8	282	13641
9	6.1	605	30779
10	6.1	494	25132
11	6.2	313	16185
12	6.2		
13	6.1	436	22181
14	6.0	511	25570
15	7.1	628	37186
16	6.0	576	28823
17	8.2	350	23936
18	8.2	399	27287
19	6.9		
20	6.7	353	19725
21	6.4	407	21724
22	6.7	190	10617
23	5.9	607	29868
24	6.3	418	21963
25	6.9		
26	6.3		
27	6.4	258	13771
28	6.1	350	17806
29			
30			
31			
Total	185.7	9778	520975
Average	6.63	444.5	23680.7

22 days

28-Day Loading	663059

Influent Flow for 2-8 and 2-15 were obtained using an uncalibrated meter due to problems with the main meter

MARCH 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	6.2	463	23941
2	6.3	315	16551
3	6.4	520	27756
4	5.6		
5	5.0		
6	4.5	214	8031
7	4.6	832	31919
8	4.4	473	17357
9	4.4	458	16807
10	4.8	405	16213
11	4.5		
12	4.5		
13	4.8	438	17534
14	6.1	411	20909
15	5.3	526	23250
16	5.8	402	19446
17	5.7	518	24625
18	6.0	415	20767
19	6.0	327	16363
20	6.0	360	18014
21	5.9	848	41727
22	5.7	363	17256
23	5.6	708	33066
24	5.9	537	26424
25	5.8		
26	5.9		
27	5.5	463	21238
28	5.6	507	23679
29	5.4	713	32111
30	5.5	657	30137
31	6.2	362	18718
Total	**169.9**	12235	**563837**
Average	**5.48**	489.4	**22553.5**

25 days

31-Day Loading	**699158**

Influent Flow for 3-11 through 3-15 were obtained using an uncalibrated meter due to problems with the main mete

APRIL 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.7		
2	5.5		
3	5.5	286	13119
4	5.4	529	23824
5	5.5	463	21238
6	6.0	873	43685
7	6.6	382	21027
8	6.2		
9	6.0		
10	5.8	489	23654
11	5.9	629	30951
12	5.7	527	25053
13	5.6	396	18495
14	5.8		
15	5.6		
16	5.3	248	10962
17	5.2	303	13141
18	5.7	581	27620
19	5.8	384	18575
20	5.7	423	20109
21	5.6	618	28863
22	5.8		
23	5.6		
24	6.0	400	20016
25	5.5	235	10779
26	5.3	305	13482
27	5.4	731	32921
28	5.3	313	13835
29	5.4		
30	5.3		
Total	169.7	9115	431346
Average	5.66	455.8	21567.3

20 days

30-Day Loading	647020

May 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.5	355	16284
2	5.3	417	18432
3	5.7	426	20251
4	5.7	529	25148
5	5.5	361	16559
6	7.9		
7	10.3		
8	7.6	134	8493
9	6.6	476	26201
10	6.2	208	10755
11	6.3	564	29634
12	6.0	412	20616
13	5.9		
14	5.5		
15	5.7	373	17732
16	6.0	492	24620
17	5.8	809	39133
18	5.7	310	14737
19	5.7	585	27810
20	5.7		
21	5.4		
22	5.3	417	18432
23	5.2	444	19255
24	5.2	767	33263
25	5.0	201	8382
26	5.0	435	18140
27	5.2		
28	4.9		
29	4.8	263	10528
30	4.8	301	12050
31	5.0	903	37655
Sum	180.4	**10182**	**474110**
Average	5.82	**442.7**	**20613.5**

31-Day Loading	639018

23	
days	

June 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	4.9	324	13241
2	4.8	272	10889
3	4.8		
4	4.5		
5	4.5	536	20116
6	4.5	494	18540
7	4.7	544	21324
8	5.1	518	22033
9	4.8	259	10368
10	4.6		
11	4.4		
12	4.4	280	10275
13	4.4	595	21834
14	4.5	377	14149
15	4.5	750	28148
16	4.6	507	19451
17	4.7		
18	4.5		
19	4.4	361	13247
20	4.4	474	17394
21	4.5	471	17677
22	4.9	354	14467
23	4.9	328	13404
24	4.7		
25	4.5		
26	4.4	330	12110
27	4.4	603	22128
28	4.3	481	17250
29	4.4	439	16110
30	4.3	801	28725
Total	137.3	10098	382876
Average	4.58	459.0	17403.5

22 days

30-Day Loading	522104

July 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	4.6		
2	4.3		
3	4.1	214	7318
4	4.1	242	8275
5	4.4	462	16954
6	4.3	453	16245
7	4.3	383	13735
8	4.5		
9	4.1		
10	4.4	362	13284
11	4.3	400	14345
12	4.4	574	21064
13	4.4	428	15706
14	4.4	543	19926
15	4.7		
16	4.8		
17	4.6	246	9438
18	4.5	496	18615
19	4.5	626	23494
20	4.4	615	22568
21	4.5	445	16701
22	4.4		
23	4.2		
24	4.3	399	14309
25	4.5	318	11935
26	4.2	314	10999
27	4.3	445	15959
28	4.4	462	16954
29	4.3		
30	4.1		
31	4.2	190	6655
Total	135.5	8617	314476
Average	4.37	410.3	14975.0

21 days

31-Day Loading	464226

August 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	4.2	302	10578
2	4.1	210	7181
3	4.2	326	11419
4	4.3	380	13628
5	4.3		
6	4.2		
7	4.4	273	10018
8	4.3	369	13233
9	4.3	663	23777
10	4.1	295	10087
11	4.3	457	16389
12	4.2		
13	4.2		
14	4.3	619	22199
15	4.4	452	16587
16	4.4	618	22678
17	4.5	430	16138
18	4.6	496	19029
19	4.8		
20	5.1		
21	5.6	287	13404
22	5.5	803	36834
23	5.4	507	22833
24	5.2	550	23852
25	5.3	452	19979
26	5.3		
27	5.3		
28	5.5	330	15137
29	5.5	473	21697
30	5.5	614	28164
31	5.3	322	14233
Total	146.6	10228	409073
Average	4.73	444.7	17785.8

23 days

31-Day Loading	551359

SEPTEMBER 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	**Pounds**
1	5.5	490	22476
2	5.5		
3	5.2		
4	5.4	398	17924
5	6.0	346	17314
6	5.5	722	33118
7	5.5	907	41604
8	5.6	550	25687
9	5.7		
10	5.6		
11	6.0	388	19416
12	5.6	476	22231
13	5.5	667	30595
14	5.4	364	16393
15	5.4	756	34047
16	5.5		
17	5.3		
18	5.6	292	13638
19	5.6	613	28630
20	5.4	730	32876
21	5.5	523	23990
22	5.6	456	21297
23	5.7		
24	5.4		
25	5.8	717	34683
26	5.4	335	15087
27	5.4	567	25535
28	5.4	351	15808
29	5.5	482	22109
30	5.6		
31			
Total	166.1	11130	514459
Average	5.54	530.0	24498.0

21 days

30-Day Loading	734941

OCTOBER 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	6.1		
2	5.8	238	11513
3	5.4	386	17384
4	5.7	297	14119
5	5.5	261	11972
6	5.3	376	16620
7	5.2		
8	5.2		
9	5.3	485	21438
10	5.2	585	25370
11	5.2	641	27799
12	5.3	625	27626
13	5.5	703	32247
14	5.1		
15	5.1		
16	5.2	566	24546
17	5.1	709	30157
18	5.3	276	12200
19	5.2	720	31225
20	5.0	629	26229
21	5.6		
22	5.4		
23	5.7	372	17684
24	5.3	636	28112
25	5.2	749	32483
26	5.1	656	27902
27	5.2	746	32353
28	5.4		
29	5.4		
30	5.5	827	37934
31	6.1	> 938 *	> 47720
Total	166.6	> 12421	> 567054
Average	5.37	> 564.6	> 25775.2

22 days

31-Day Loading	> 799030

* Highest final DO concentration was 0.8 (< 1.0 allowed minimum)

NOVEMBER 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.3	895	39561
2	5.2	851	36906
3	5.1	774	32921
4	5.2		
5	5.2		
6	5.3		
7	5.1	613	26073
8	5.1	759	32283
9	5.1	821	34920
10	5.2		
11	8.2		
12	6.7	381	21290
13	6.0	444	22218
14	5.4	644	29003
15	5.3	354	15648
16	5.8	601	29072
17	5.5	587	26926
18	5.4		
19	4.1		
20	4.4	336	12330
21	4.3	490	17572
22	4.2	388	13591
23	4.1		
24	3.8	748	23706
25	4.0	990	33026
26	5.0		
27	4.5	548	20566
28	5.2	428	18562
29	4.9	289	11810
30	5.5	880	40366
31			
Total	154.1	12821	538350
Average	5.14	610.5	25635.7

21 days

30-Day Loading	769071

DECEMBER 2022 UAJA Influent BOD Loading

	Inf Flow (MGD)	Inf BOD (mg/L)	Pounds
1	5.6	580	27088
2	5.4		
3	5.5		
4	5.5	290	13302
5	5.3	472.5	20885
6	5.2	343	14875
7	5.4	442	19906
8	5.2	480	20817
9	5.2		
10	5.1		
11	5.2	137	5941
12	5.2	1320	57246
13	5.1	884	37600
14	4.8	917	36709
15	4.8	777	31105
16	5.5		
17	4.9		
18	4.7	302	11838
19	4.5	399	14974
20	4.4	263	9651
21	4.4	487	17871
22	5.3	350	15471
23	6.5		
24	5.3		
25	4.7		
26	4.8	348	13931
27	4.7	598	23440
28	4.7	306	11995
29	4.7	377	14778
30	5.0		
31	5.2	288	12490
Total	157.8	10361	431914
Average	5.09	493.4	20567.3

21 days

31-Day Loading	637587

SIGNATURE: _____

MONTH: **JANUARY 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.0	478	296	4.9	2.2	9.0	5.5	7.1			< 0.2	0.04		56.2	Rain
2	5.0	586	192	4.9	2.0	9.2	1.0	7.1			< 0.2	0.03		56.2	Rain
3	4.8	348	324	4.7	2.0	10.3	2.0	6.9		30.0	< 0.2	0.05	0.06	54.7	Cldy
4	4.7	531	200	4.7	2.3	9.8	< 0.5	7.0		3.8	< 0.2	0.04		54.0	Sun
5	5.0	432	348	4.0	1.4	10.1	1.0	7.0	594	1.5	< 0.2	0.04	0.06	54.1	Sun
6	4.8	616	268	4.0	1.3	10.1	< 0.5	7.0		0.7	< 0.2	0.05		54.3	Cldy
7	4.8			4.0		10.6		7.1		0.3				53.8	Cldy
8	5.2			3.6		12.0		6.8						53.6	Sun
9	5.8	319	260	4.8	2.1	9.7	0.5	7.0			0.79	0.04		54.2	Snow
10	5.7	525	228	4.8	2.1	8.8	3.0	7.0	846	1.8	< 0.2	0.04		54.4	Cldy
11	5.5	609	236	4.5	0.1	8.8	4.0	7.1		4.8	< 0.2	0.04	0.08	54.2	Cldy
12	5.6	326	264	4.7	1.6	8.8	1.5	7.1		0.6	< 0.2	0.04		54.7	Sun
13	5.6	644	188	4.6	5.6	8.8	3.0	7.0		0.6	< 0.2	0.06	0.07	55.7	Sun
14	5.6			4.1		9.7		7.1		1.0				56.0	Sun
15	5.4			4.2		8.0		7.1						54.8	Sun
16	5.4	565	344	4.5	2.3	10.2	1.0	7.1			0.66	0.04		55.0	Snow
17	5.6	369	336	5.5	1.6	10.1	2.5	7.2		2.2	2.25	0.07	0.08	54.2	Snow
18	5.6	502	276	5.5	1.7	9.8	1.0	7.2	634	3.1	1.87	0.05		54.3	Cldy
19	6.4	333	104	5.2	1.9	10.5	1.0	7.1		1.5	0.89	0.04	0.09	55.0	Sun
20	5.5	289	96	6.0	2.5	10.9	0.5	7.1		5.8	1.16	0.06		55.5	Sun
21	5.3			4.8		12.5		6.8		6.8				54.3	Sun
22	5.5			4.6		11.2		7.0						53.7	Sun
23	5.2	325	248	5.1	3.6	9.9	7.0	7.0			2.00	0.02		54.5	Snow
24	5.2	461	84	5.5	5.8	13.3	< 0.5	6.9		42.0	0.30	0.02	0.03	54.8	Snow
25	5.5	531	432	4.8	2.7	13.2	2.0	7.0	675	32.5	0.24	0.04		54.9	Sun
26	5.5	593	368	4.2	4.6	13.5	4.5	7.0		17.3	0.30	0.02	0.07	54.2	Sun
27	5.4	605	444	4.3	3.5	18.8	< 0.5	7.0		31.3	2.41	0.05		53.7	Sun
28	5.1			4.1		11.6		6.9		21.5				54.5	Sun
29	5.3			4.4		14.5		6.9						54.1	Cldy
30	5.4	539	300	4.2	3.4	14.3	5.0	6.9			0.96	0.06		53.8	Cldy
31	5.1	296	436	4.2	2.9	22.5	4.0	6.9		20.2	0.62	0.05	0.11	53.9	Sun
avg	5.34	470.5	272.7	4.63	2.6	11.31	2.3	7.01	687.2	10.9	0.715	0.043	0.072	54.56	
										Geometric Mean	4.2				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous UF - Unfiltered
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **FEBRUARY 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

Note that Influent Flow for 2-8 and 2-15 were obtained using an uncalibrated meter due to problems with the main meter

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.1	627	504	4.2	4.9	13.2	5.0	6.9	734	12.5	0.33	0.06		54.2	Sun
2	5.2	530	476	4.3	2.4	13.0	2.0	7.0		17.7	0.27	0.06	0.12	54.8	Cldy
3	9.9	272	412	8.1	3.6	9.2	0.5	6.8		7.8	2.48	0.07		55.5	Rain
4	8.6			8.0		11.4		7.2		6				51.5	Sun
5	7.3			6.0		12.5		7.1						50.7	Sun
6	6.7	327	240	5.5	2.3	14.8	1.0	7.0			0.55	0.05		51.2	Sun
7	6.3	845	528	5.3	3.7	12.1	0.5	7.0		6.8	0.31	0.03	0.06	52.1	Sun
8	5.8	282	356	5.4	2.2	14.6	3.0	7.0		4.7	< 0.20	0.06		52.5	Sun
9	6.1	605	336	5.8	2.3	9.6	2.0	6.9	732	12.6	0.39	0.04	0.12	52.9	Cldy
10	6.1	494	376	5.3	2.2	10.2	2.0	7.1		1.5	0.28	0.07		53.4	Sun
11	6.2	313	255	5.4		9.5		7.1		6.5				53.8	Sun
12	6.2			5.5		9.2		7.2						53.8	Sun
13	6.1	436	244	5.0	1.8	10.1	3.0	7.0			1.07	0.13		53.3	Sun
14	6.0	511	424	5.1	1.9	9.5	2.0	7.0		4	0.41	0.11	0.18	52.6	Sun
15	7.1	628	392	4.8	2.9	10.0	3.5	7.0	740	2.4	0.30	0.02		52.6	Sun
16	6.0	576	416	5.1	1.7	10.4	2.5	7.0		2	< 0.20	0.13	0.24	53.0	Cldy
17	8.2	350	228	8.2	1.7	9.0	3.0	6.8		1.3	2.12	0.21		53.9	Rain
18	8.2	399	340	7.9		10.6		7.1		1.6				53.1	Snow
19	6.9			5.8		10.9		6.9						50.6	Cldy
20	6.7	353	92	5.9	2.2	11.4	1.5	6.8			0.88	0.18		51.1	Sun
21	6.4	407	240	5.7	3.5	12.9	4.5	6.9		3.4	0.79	0.13	0.26	52.9	Sun
22	6.7	190	324	6.3	2.1	9.4	2.5	6.9		2	1.59	0.16		53.2	Cldy
23	5.9	607	380	5.9	5.2	14.5	1.5	7.0	670	0.3	0.56	0.21	0.32	53.6	Cldy
24	6.3	418	348	5.5	2.1	9.3	0.5	7.1		6.8	0.43	0.12		53.5	Snow
25	6.9			6.2		9.4		7.0		1				52.5	Snow
26	6.3			5.5		9.9		6.9						52.6	Sun
27	6.4	258	164	5.5	2.8	9.3	7.5	7.0			2.12	0.07		52.6	Cldy
28	6.1	350	344	5.4	4.1	9.5	7.0	7.0		4.8	1.70	0.06	0.17	53.2	Sun
avg	6.63	444.5	337.2	5.81	2.78	10.91	2.75	6.99	719.0	5.3	0.849	0.099	0.184	52.88	
										Geometric Mean	3.6				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **MARCH 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

Note that Influent Flow for 3-11 through 3-15 were obtained using an uncalibrated meter due to problems with the main meter

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	6.2	463	382	5.6	3.1	10.1	2.0	6.9	712.3	2.9	0.71	0.06		53.3	Cldy
2	6.3	315	284	5.7	2.0	10.1	2.0	7.0		1.2	0.30	0.10	0.16	53.7	Sun
3	6.4	520	444	5.6	5.1	9.1	5.5	6.9		3.7	0.33	0.13		53.7	Cldy
4	5.6			5.0		9.7		6.9		5.5				52.9	Sun
5	5.0			4.2		9.5		6.9						53.2	Cldy
6	4.5	214	196	4.2	3.5	9.7	1.0	6.9			< 0.2	0.04		53.5	Sun
7	4.6	832	552	4.4	1.5	9.5	2.0	7.0		< 0.2	< 0.2	0.03	0.06	53.6	Rain
8	4.4	473	504	4.2	1.7	10.1	2.5	6.9	635.8	0.2	< 0.2	0.04		52.9	Cldy
9	4.4	458	688	4.0	1.5	10.2	4.0	7.1		< 0.2	< 0.2	0.09	0.08	52.0	Snow
10	4.8	405	392	4.2	2.3	9.8	< 0.5	7.2		2.2	< 0.2	0.03		52.0	Sun
11	4.5			4.2		10.2		7.1		0.5				52.3	Sun
12	4.5			4.3		9.2		7.1						51.7	Sun
13	4.8	438	316	4.7	1.6	10.3	4.5	7.2			0.23	0.05		50.7	Snow
14	6.1	411	416	5.1	2.0	9.6	2.0	7.1		2.8	0.27	0.04	0.10	51.8	Sun
15	5.3	526	448	5.2	1.7	9.5	6.5	7.0	763.5	3.7	0.59	0.07		53.1	Sun
16	5.8	402	452	5.1	2.0	9.8	4.0	7.0		68.0	0.28	0.06	0.12	54.1	Sun
17	5.7	518	456	5.2	1.9	9.8	< 0.5	6.9		96.0	0.90	0.09		54.9	Rain
18	6.0	415	404	5.2		8.7		7.1		1.0				55.5	Sun
19	6.0	327	232	5.2		8.6		7.0						56.0	Sun
20	6.0	360	312	5.1	3.8	8.3	4.0	7.1			2.39	0.07		55.6	Cldy
21	5.9	848	644	5.0	4.2	8.8	2.0	7.0		25.3	1.80	0.08	0.15	55.6	Sun
22	5.7	363	536	4.9	1.8	9.1	2.5	7.0	613.8	6.0	2.00	0.07		55.7	Cldy
23	5.6	708	572	5.1	5.4	8.5	5.0	6.8		8.3	2.00	0.03	0.02	55.7	Cldy
24	5.9	537	620	5.3	1.8	8.7	2.0	6.9		2.3	2.02	0.08		56.4	Sun
25	5.8			5.3		8.4		6.9		6.3				56.2	Sun
26	5.9			5.0		8.7		6.9						56.1	Snow
27	5.5	463	268	4.9	2.1	8.9	4.5	7.0			1.70	0.11		55.0	Snow
28	5.6	507	460	4.9	2.1	8.8	3.5	7.1		2.0	1.70	0.05	0.10	54.3	Cldy
29	5.4	713	536	4.6	2.3	9.2	8.0	6.9	612.7	2.3	1.25	0.03		54.1	Snow
30	5.5	657	744	4.9	2.1	9.8	1.5	7.1		0.8	1.02	0.05	0.09	55.1	Cldy
31	6.2	362	144	5.7	1.9	7.7	1.0	7.1		2.5	1.60	0.08		55.9	Rain
avg	5.48	489.4	440.1	4.90	2.50	9.30	3.09	7.00	667.6	10.6	0.967	0.064	0.098	54.08	
									Geometric Mean	2.7					

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **APRIL 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.7			5.1		8.9		7.0		37.3				55.7	Cldy
2	5.5			4.6		9.2		7.0						55.4	Sun
3	5.5	286	292	4.8	2.0	7.9	2.0	7.1			4.51	0.03		55.5	Rain
4	5.4	529	788	4.7	2.4	8.7	3.5	7.0		36	4.30	0.06	0.09	55.5	Sun
5	5.5	463	536	4.8	2.2	9.3	1.5	7.1	648	52	2.11	0.06		56.2	Cldy
6	6.0	873	484	5.6	4.0	8.3	1.0	7.0		92	1.44	0.08	0.10	56.6	Rain
7	6.6	382	388	6.3	2.6	8.3	1.0	7.0		32.4	2.09	0.04		56.5	Rain
8	6.2			5.7		8.5		7.0		42				56.0	Sun
9	6.0			5.4		8.6		7.0						55.7	Rain
10	5.8	489	268	5.2	2.0	9.1	6.0	7.0			1.90	0.10		56.0	Rain
11	5.9	629	420	5.3	2.0	9.0	1.0	7.0		3.6	0.99	0.08	0.08	55.6	Rain
12	5.7	527	460	4.9	1.9	8.9	1.0	7.0	629	2.6	0.81	0.11		56.9	Cldy
13	5.6	396	488	5.0	2.0	8.8	< 0.5	6.8		1.5	0.86	0.01	0.08	57.7	Cldy
14	5.8			4.9		7.9		7.0		54				57.9	Cldy
15	5.6			4.6		8.5		7.1		2.9				57.7	Sun
16	5.3	248	282	4.3	2.0	8.1	1.0	7.0			< 0.2	0.10		57.3	Rain
17	5.2	303	296	4.2	1.8	9.7	1.5	7.1			< 0.2	0.09		56.7	Cldy
18	5.7	581	444	5.1	2.6	8.7	1.5	7.1		3.2	0.41	0.05	0.14	56.1	Snow
19	5.8	384	388	5.1	2.1	9.3	5.5	7.0	696	4.3	0.42	0.08		56.2	Snow
20	5.7	423	332	4.9	2.2	9.4	1.0	7.6		10.5	< 0.2	0.10	0.11	56.4	Sun
21	5.6	618	372	5.3	7.5	8.5	1.0	6.9		2.5	0.29	0.08		57.2	Sun
22	5.8			5.0		9.6		7.0		7.5				57.8	Sun
23	5.6			4.8		9.0		6.8						58.5	Rain
24	6.0	400	376	5.2	4.1	10.1	5.0	7.0			5.18	0.10		58.8	Cldy
25	5.5	235	184	4.8	1.9	8.6	1.5	7.1		28.7	8.11	0.11	0.15	59.9	Sun
26	5.3	305	236	4.7	3.1	8.2	1.5	7.1	633	8.5	3.39	0.13		59.6	Rain
27	5.4	731	348	4.6	3.0	8.8	2.5	7.1		9	0.52	0.12	0.12	58.4	Sun
28	5.3	313	216	4.6	2.7	9.6	2.0	7.0		6.5	< 0.2	0.08		58.0	Sun
29	5.4			4.4		9.9		7.1		7.5				59.0	Sun
30	5.3			4.3		10.8		7.0						58.8	Sun
avg	5.66	455.8	379.9	4.94	2.71	8.94	< 2.08	7.03	651.5	21.2	< 1.91	0.08	0.11	57.12	
										Geometric Mean	10.9				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **MAY 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.5	355	308	4.7	2.4	8.3	4.5	6.9			2.24	0.06		58.7	Rain
2	5.3	417	336	4.6	2.2	8.9	1.5	6.8		258.3	1.56	0.06	0.11	59.2	Cldy
3	5.7	426	302	4.8	1.2	8.4	2.0	6.9		42.4	1.82	0.07		60.1	Cldy
4	5.7	529	304	4.9	3.9	9.7	5.0	7.0	634	6.5	1.57	0.08	0.12	60.1	Rain
5	5.5	361	352	4.6	1.3	8.4	< 0.5	6.9		1.1	1.33	0.04		60.8	Cldy
6	7.9			7.8		7.8		7.2		0.3				60.4	Rain
7	10.3			9.9		8.2		7.0						57.5	Rain
8	7.6	134	196	7.5	1.8	8.7	7.0	7.0			0.53	0.05		56.1	Sun
9	6.6	476	348	6.1	1.2	9.0	1.0	7.1		0.3	0.44	0.08	0.09	56.7	Sun
10	6.2	208	252	5.6	1.2	8.7	4.0	7.2	981	0.2	1.94	0.07		57.5	Sun
11	6.3	564	388	5.1	1.9	8.4	2.5	7.0		0.5	2.92	0.10	0.10	57.8	Sun
12	6.0	412	308	4.8	1.3	8.2	4.5	7.2		1.1	3.63	0.10		58.5	Sun
13	5.9			4.7		8.3		6.9		< 0.2				59.3	Sun
14	5.5			4.4		8.6		7.0						59.8	Sun
15	5.7	373	332	4.9	0.8	8.0	2.0	7.0			1.28	0.09		59.9	Rain
16	6.0	492	496	5.5	1.8	8.2	0.5	6.9		5.8	1.91	0.09	0.11	59.7	Rain
17	5.8	809	384	4.9	2.1	8.7	1.5	7.2	663	15.8	0.24	0.08		59.5	Sun
18	5.7	310	228	4.7	2.0	8.2	2.0	7.0		0.7	0.34	0.03	0.09	59.8	Sun
19	5.7	585	404	4.5	1.1	8.4	0.5	6.9		13.5	0.47	0.08		59.6	Sun
20	5.7			4.7		7.0		7.0		10.8				60.2	Rain
21	5.4			4.0		8.1		7.0						60.8	Sun
22	5.3	417	276	4.0	2.4	8.0	4.0	7.0			3.42	0.08		61.4	Sun
23	5.2	444	508	4.0	1.8	8.0	1.5	7.2		5.8	4.94	0.07	0.10	61.0	Sun
24	5.2	767	552	3.9	2.6	8.1	< 0.5	7.1	655	9.5	1.32	0.08		60.6	Cldy
25	5	201	196	3.9	1.0	8.6	7.0	7.1		2.4	0.64	0.06	0.12	61.0	Sun
26	5	435	92	3.8	1.1	9.3	< 0.5	7.1		6.8	0.24	0.07		61.6	Sun
27	5.2			4.2		8.7		7.1		8.0				62.3	Rain
28	4.9			3.6		9.2		7.1						62.1	Sun
29	4.8	263	284	3.3	2.9	8.7	6.0	7.0			< 0.2	0.08		62.3	Sun
30	4.8	301	300	3.4	2.8	9.2	5.5	7.1	1180	5.0	< 0.2	0.08	0.13	62.7	Sun
31	5	903	532	3.8	1.7	9.3	1.0	7.0		26.7	0.28	0.09		63.4	Sun
avg	5.82	442.7	333.8	4.86	1.85	8.49	2.83	7.03	822.6	19.2	1.455	0.073	0.108	60.01	
										Geometric Mean	3.6				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

The difference between Influent and Effluent flow is net Beneficial Reuse flow.

SIGNATURE: _____

MONTH: **JUNE 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	4.9	324	384	3.8	1.9	9.7	< 0.5	7.0		1200.0	2.19	0.08	0.10	64.1	Sun
2	4.8	272	392	3.8	0.4	7.6	1.5	7.0		875.0	2.91	0.04		64.1	Rain
3	4.8			4.0		8.4		7.1		458.0				64.5	Sun
4	4.5			3.1		7.8		7.1						64.0	Sun
5	4.5	536	312	3.2	2.2	8.1	0.5	7.2			2.63	0.07		64.3	Sun
6	4.5	494	540	3.3	8.1	8.7	2.0	6.9		373.0	1.05	0.09	0.11	63.6	Sun
7	4.7	544	420	3.7	1.2	8.2	1.5	7.0	736.5	54.0	0.55	0.06		63.9	Rain
8	5.1	518	508	4.0	1.6	10.5	0.5	7.0		34.1	0.15	0.09	0.10	64.2	Sun
9	4.8	259	284	3.7	1	9.6	2.0	7.1		9.0	< 0.20	0.06		64.9	Sun
10	4.6			3.6		8.6		7.0		1.6				64.0	Sun
11	4.4			3.4		9.7		7.1						64.1	Sun
12	4.4	280	320	3.6	0.9	9.2	0.5	7.0			< 0.20	0.05		64.3	Sun
13	4.4	595	536	3.7	0.7	10.2	1.0	7.1		5.8	0.36	0.10	0.10	65.0	Sun
14	4.5	377	652	4.0	0.3	9.4	2.0	7.0	647.5	1.0	< 0.20	0.06		65.6	Rain
15	4.5	750	548	4.2	0.9	9.2	3.5	7.1		4.2	< 0.20	0.07	0.17	66.1	Sun
16	4.6	507	428	4.5	3.5	8.4	< 0.5	7.0		6.5	< 0.20	0.05		66.9	Cldy
17	4.7			3.8		9.0		6.8		1.8				67.1	Sun
18	4.5			4.7		9.7		6.8						65.8	Sun
19	4.4	361	320	3.8	1.8	8.7	4.0	6.9			< 0.20	0.06		64.8	Sun
20	4.4	474	700	4.0	1.8	9.0	3.0	6.9		1.3	< 0.20	0.05	0.05	64.7	Cldy
21	4.5	471	524	4.1	5.7	8.5	2.5	6.9	689.8	1.3	< 0.20	0.05		65.6	Rain
22	4.9	354	380	4.3	3.9	9.1	3.5	7.1		1.9	0.39	0.05	0.07	66.7	Sun
23	4.9	328	424	4.1	1.4	8.3	< 0.5	6.9		4.2	0.36	0.05		66.8	Rain
24	4.7			4.3		9.1		7.3		1.0				67.2	Cldy
25	4.5			3.7		8.5		6.8						67.4	Sun
26	4.4	330	396	4.0	1.5	8.7	1.5	6.9			< 0.20	0.05		67.6	Sun
27	4.4	603	540	3.7	3	9.6	2.5	7.1		1.6	0.45	0.06	0.06	67.8	Sun
28	4.3	481	344	3.3	1.1	9.1	3.5	7.1	689.8	2.0	0.22	0.05		67.6	Sun
29	4.4	439	328	3.3	2.4	8.9	3.5	7.0		2.8	< 0.20	0.06	0.07	67.8	Sun
30	4.3	801	175	3.3	4.2	8.3	< 0.5	7.0		5.8	0.40	0.08		67.9	Sun
avg	4.58	459.0	429.8	3.80	2.25	8.93	1.86	7.01	690.9	138.5	0.621	0.063	0.092	65.61	
									Geometric Mean	8.99					

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **JULY 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	4.6			3.3		9.0		6.9		4.1				68.4	Rain
2	4.3			3.0		8.4		7.0						68.7	Cldy
3	4.1	214	321	2.9	2.4	9.2	12.0	7.0			< 0.20	0.08		68.9	Cldy
4	4.1	242	280	3.0	1.9	9.0	5.5	6.9		10	< 0.20	0.06	0.09	68.6	Rain
5	4.4	462	664	3.9	1.1	9.7	2.0	7.0	755	4.9	0.37	0.06		68.7	Cldy
6	4.3	453	580	3.1	0.2	9.2	< 0.5	7.0		4.2	0.56	0.07	0.11	68.6	Rain
7	4.3	383	188	2.9	0.8	9.0	2.5	7.0		10	0.99	0.08		68.9	Rain
8	4.5			2.9		9.7		7.1		4.2				69.7	Sun
9	4.1			2.7		9.8		7.1						69.8	Sun
10	4.4	362	348	2.7	1.9	11.1	3.0	7.1			0.39	0.09		70.0	Sun
11	4.3	400	524	3.1	1.7	9.9	< 0.5	7.3		34	0.27	0.09	0.11	69.3	Sun
12	4.4	574	608	2.9	1.7	11.3	0.5	7.2	850	9.8	2.45	0.09		70.1	Sun
13	4.4	428	492	2.9	5.0	10.2	0.5	7.2		< 31.3	2.54	0.12	0.15	69.7	Sun
14	4.4	543	496	3.0	5.7	11.3	< 0.5	7.0		65	1.24	0.09		70.4	Sun
15	4.7			3.3		8.4		7.1		11.1				69.5	Rain
16	4.8			3.1		8.2		7.2						69.4	Rain
17	4.6	246	504	3.3	1.3	7.8	9.5	7.2			0.46	0.10		69.4	Sun
18	4.5	496	700	3.0	1.1	9.0	4.0	7.1		5.5	< 0.20	0.09	0.14	69.6	Sun
19	4.5	626	800	3.9	3.2	9.4	2.5	7.1	665	1.6	2.83	0.09		69.8	Sun
20	4.4	615	632	3.0	2.4	8.1	1.0	7.2		18.9	0.36	0.09	0.13	70.4	Rain
21	4.5	445	416	3.1	4.3	8.3	< 0.5	7.2		13.4	< 0.20	0.12		70.9	Sun
22	4.4			2.6		10.0		7.0		6				71.1	Sun
23	4.2			2.4		10.1		7.0						71.0	Sun
24	4.3	399	600	3.0	2.0	9.6	0.5	7.1			< 0.20	0.09		70.9	Cldy
25	4.5	318	496	3.7	2.3	9.0	0.5	7.0		6.5	< 0.20	0.10	0.11	71.3	Sun
26	4.2	314	572	2.4	1.1	9.3	2.0	6.7	691	2	< 0.20	0.09		70.8	Sun
27	4.3	445	408	3.7	1.8	8.5	1.0	7.2		7.3	< 0.20	0.08	0.10	70.7	Rain
28	4.4	462	412	2.3	0.8	9.7	1.5	7.2		8.8	< 0.20	0.08		71.3	Sun
29	4.3			1.8		8.1		7.2		1.1				71.3	Sun
30	4.1			1.3		8.3		7.1						70.3	Sun
31	4.2	190	304	2.9	2.2	8.2	1.0	7.1			< 0.20	0.08		70.3	Sun
avg	4.37	410.3	492.6	2.94	2.14	9.25	< 2.45	7.08	739.9	12.4	< 0.69	0.088	0.118	69.93	
									Geometric Mean	7.6					

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **AUGUST 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	4.2	302	348	2.7	2.2	9.0	3.0	7.3		9.8	< 0.20	0.07	0.11	70.7	Sun
2	4.1	210	476	2.0	2.3	8.5	2.0	7.1	979	3.1	< 0.20	0.07		71.1	Sun
3	4.2	326	412	2.9	1.1	9.0	6.0	7.2		2.4	< 0.20	0.07	0.11	71.0	Sun
4	4.3	380	412	3.0	1.3	9.3	< 0.5	7.2		6.3	< 0.20	0.05		71.2	Sun
5	4.3			2.8		9.0		7.3		120.0				71.5	Rain
6	4.2			2.6		8.3		7.0						71.5	Sun
7	4.4	273	396	3.0	0.8	8.0	5.0	7.1			< 0.20	0.05		71.7	Cldy
8	4.3	369	276	2.5	0.1	9.8	< 0.5	7.1		10.3	< 0.20	0.06	0.07	71.9	Cldy
9	4.3	663	552	2.9	1.4	8.2	2.0	7.1	982	2.9	< 0.20	0.06		72.2	Cldy
10	4.1	295	180	2.0	0.7	8.8	3.0	7.1		9.5	< 0.20	0.08	0.08	72.1	Cldy
11	4.3	457	500	1.9	1.2	11.0	2.5	7.2		5.1	< 0.20	0.07		71.8	Sun
12	4.2			1.7		10.5		7.2		5.8				71.3	Sun
13	4.2			2.0		9.2		7.1						70.7	Sun
14	4.3	619	564	2.0	1.2	9.3	2.0	7.4			< 0.20	0.07		70.7	Cldy
15	4.4	452	136	2.3	1.5	9.0	2.0	8.0		6.5	0.65	0.06	0.07	70.0	Sun
16	4.4	618	428	2.7	2.2	7.5	2.5	7.0	1029	24.0	< 0.20	0.07		70.3	Rain
17	4.5	430	532	2.8	1.4	8.5	1.5	7.1		150.0	< 0.20	0.06	0.06	70.4	Cldy
18	4.6	496	528	2.6	1.5	7.5	2.0	7.0		10.5	< 0.20	0.05		70.3	Sun
19	4.8			2.9		9.4		7.3		4.9				70.9	Sun
20	5.1			3.9		8.5		7.0						71.4	Cldy
21	5.6	287	300	4.8	1.4	9.0	2.0	7.0			0.55	0.05		71.5	Rain
22	5.5	803	764	5.4	1.4	8.5	< 0.5	7.0		118.8	0.62	0.07	0.08	71.5	Cldy
23	5.4	507	628	5.0	2	9.6	2.0	7.1	614	14.5	< 0.20	0.07		71.5	Sun
24	5.2	550	756	4.9	1.3	9.9	1.0	7.1		14.8	< 0.20	0.10	0.09	71.8	Sun
25	5.3	452	500	3.4	1.7	8.8	< 0.5	7.0		16.0	< 0.20	0.07		72.1	Sun
26	5.3			3.4		10.6		7.1		30.7				72.5	Sun
27	5.3			3.0		9.2		7.2						72.3	Sun
28	5.5	330	284	4.2	2.2	7.8	7.5	7.1			1.02	0.09		72.1	Sun
29	5.5	473	564	3.4	1.4	8.6	3.0	7.2		28.0	2.10	0.08	0.10	72.5	Sun
30	5.5	614	600	4.4	1.5	7.9	2.0	7.0	668	52.0	2.14	0.09		72.7	Cldy
31	5.3	322	388	3.7	4.4	8.4	2.5	6.9		17.1	< 0.20	0.08	0.12	72.5	Sun
avg	4.73	444.7	457.6	3.12	1.6	8.92	< 2.41	7.15	854.3	28.8	< 0.46	0.069	0.089	71.47	
										Geometric Mean	13.8				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **SEPTEMBER 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.5	490	620	3.9	2.2	9.7	2.0	7.1		42.0	< 0.20	0.07		72.6	Sun
2	5.5			3.7		9.7		7.0		46.0				71.9	Sun
3	5.2			3.4		10.4		7.4						72.1	Sun
4	5.4	398	316	4.1	5.2	11.4	2.0	7.2			1.35	0.09		72.3	Rain
5	6.0	346	336	4.7	2	8.2	0.5	7.1			1.87	0.08	0.10	71.9	Rain
6	5.5	722	584	5.1	0.8	9.3	1.5	7.0	748.3	83.2	1.81	0.07		71.9	Rain
7	5.5	907	704	3.6	2.5	10.3	1.0	7.3		92.0	0.51	0.07	0.09	71.8	Rain
8	5.6	550	704	3.7	1.4	8.5	< 0.5	7.3		52.0	< 0.2	0.06		72.2	Cldy
9	5.7			4.3		8.7		7.0		56.0				72.3	Sun
10	5.6			3.5		8.1		7.1		35.3				71.8	Sun
11	6.0	388	336	3.9	1.6	9.3	4.0	7.2			3.20	0.10		71.5	Rain
12	5.6	476	624	3.6	1.1	8.6	2.5	7.3		36.0	0.74	0.08	0.10	71.8	Rain
13	5.5	667	464	3.5	1.5	8.6	< 0.5	7.3	799.3	50.0	< 0.2	0.09		72.0	Sun
14	5.4	364	524	3.9	1.1	7.8	< 0.5	7.2		88.0	< 0.2	0.05	0.10	71.6	Sun
15	5.4	756	684	4.1	1.7	8.5	2.5	7.1		104.0	< 0.2	0.08		71.6	Sun
16	5.5			3.2		11.1		7.1		33.5				71.3	Sun
17	5.3			4.6		10.5		7.2						71.4	Sun
18	5.6	292	300	5.0	1.6	10.2	1.5	7.1			0.60	0.05		71.5	Sun
19	5.6	613	284	4.1	4.7	8.3	2.0	7.0		16.7	0.21	0.05	0.05	71.4	Rain
20	5.4	730	716	3.8	1.4	8.2	4.5	7.1	812.0	42.0	< 0.2	0.05		71.4	Sun
21	5.5	523	692	3.5	1.4	9.2	0.5	6.9		37.3	0.56	0.06	0.08	71.0	Sun
22	5.6	456	464	4.7	1.2	8.4	1.0	7.0		64.0	< 0.2	0.11		71.4	Rain
23	5.7			4.3		10.7		6.9		32.7				70.1	Sun
24	5.4			3.9		7.8		7.0						69.8	Sun
25	5.8	717	516	5.1	6.1	7.5	2.5	7.1			3.89	0.08		69.7	Rain
26	5.4	335	380	4.2	1.6	8.4	0.5	7.1		70.0	2.75	0.07	0.07	69.7	Cldy
27	5.4	567	460	4.1	1.7	8.7	2.5	6.9	704.3	191.7	< 0.2	0.06		69.4	Cldy
28	5.4	351	480	3.8	1.7	9.7	1.0	7.1		64.0	< 0.2	0.05	0.08	69.4	Cldy
29	5.5	482	708	3.9	1.3	9.9	0.5	7.1		4.3	< 0.2	0.07		69.4	Cldy
30	5.6			4.4		9.0		7.1		8.5				67.9	Cldy
avg	5.54	530.0	518.9	4.05	2.09	9.16	< 1.62	7.11	766.0	56.8	< 0.93	0.071	0.084	71.14	
									Geometric Mean	44.01					

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and plant performance assessment.

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **OCTOBER 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	6.1			5.0		7.9		7.2						68.7	Rain
2	5.8	238	328	4.7	1.6	9.0	5.0	7.2			0.79	0.06		67.9	Rain
3	5.4	386	544	4.3	1.3	7.9	< 0.5	7.1		9.8	< 0.20	0.07	0.09	67.5	Cldy
4	5.7	297	308	4.4	1.4	8.4	3.5	7.1	666	14.0	< 0.20	0.05		67.4	Cldy
5	5.5	261	132	4.1	1.3	8.0	1.0	7.0		28.0	< 0.20	0.05	0.06	67.6	Cldy
6	5.3	376	448	3.9	1.4	9.2	2.5	7.0		20.7	< 0.20	0.05		67.9	Cldy
7	5.2			3.5		9.4		7.1		4.1				68.0	Cldy
8	5.2			3.5		9.7		7.1						67.7	Sun
9	5.3	485	380	3.7	3.9	8.7	3.0	7.2			0.29	0.06		67.0	Sun
10	5.2	585	548	3.6	1.6	8.9	2.5	7.2		13.8	0.43	0.05	0.06	66.8	Sun
11	5.2	641	548	3.0	2.2	9.4	9.5	7.1	781	11.5	0.59	0.05		67.0	Sun
12	5.3	625	420	3.7	2.3	8.4	0.5	7.0		76.2	< 0.20	0.06	0.08	67.0	Sun
13	5.5	703	430	3.4	4.1	8.2	3.5	7.1		7.3	< 0.20	0.08		67.4	Rain
14	5.1			2.9		8.5		7.1		68.0				67.4	Cldy
15	5.1			2.9		8.6		7.1						66.9	Sun
16	5.2	566	416	3.6	1.8	7.7	1.5	7.0			0.83	0.01		66.3	Sun
17	5.1	709	536	2.9	4.1	8.4	1.0	7.0		23.3	0.77	0.06	0.08	65.9	Sun
18	5.3	276	584	2.9	5.3	6.5	6.5	7.2	806	12.5	0.91	0.05		65.3	Cldy
19	5.2	720	676	3.4	2.3	9.4	10.0	7.1		26.2	1.14	0.04	0.07	65.0	Cldy
20	5.0	629	564	3.9	1.7	8.7	2.5	7.2		76.0	1.07	0.07		65.2	Sun
21	5.6			3.3		9.9		7.0		46.7				65.2	Sun
22	5.4			2.9		10.1		7.1						65.6	Sun
23	5.7	372	160	4.2	3.3	8.9	3.0	7.2			1.82	0.08		65.6	Sun
24	5.3	636	468	3.0	3.4	11.6	0.5	7.2		12.5	0.84	0.05	0.06	66.2	Cldy
25	5.2	749	712	3.0	2.3	8.7	3.5	7.1	797	14.0	1.19	0.05		66.7	Cldy
26	5.1	656	488	3.5	4.1	9.4	0.5	7.0		10.0	< 0.20	0.04	0.06	66.7	Cldy
27	5.2	746	720	3.9	2.3	10.8	7.0	6.9		3.1	< 0.20	0.03		66.4	Sun
28	5.4			3.5		9.8		7.2		1.8				65.6	Sun
29	5.4			3.4		8.5		7.2						65.1	Sun
30	5.5	827	712	3.4	3.5	9.2	14.5	7.2			1.39	0.04		64.6	Sun
31	5.2	> 938	696	2.9	8.2	7.8	2.0	7.1		38.7	1.66	0.09	0.12	64.8	Cldy
avg	5.35	> 565	491.7	3.56	2.88	8.89	< 3.82	7.11	762.5	24.7	< 0.696	0.054	0.076	66.53	
										Geometric Mean	16.0				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **NOVEMBER 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.3	895	884	3.5	3.5	9.9	0.5	7.0	842.5	3.6	< 0.20	0.03		65.4	Rain
2	5.2	851	840	3.3	2.8	11.4	3.0	7.2		3.1	< 0.20	0.06	0.07	65.8	Sun
3	5.1	774	780	3.3	7.7	10.6	4.0	7.2		3.6	0.74	0.02		65.6	Sun
4	5.2			3.0		10.1		7.0		3.1				65.7	Sun
5	5.2			3.1		7.6		7.4						66.3	Cldy
6	5.3		976	4.1	4.0	8.4	< 0.5	7.2			0.88	0.04		66.7	Sun
7	5.1	613	460	3.3	5.2	8.4	0.5	7.1		4.5	1.05	0.06	0.16	66.6	Sun
8	5.1	759	572	2.8	3.9	11.5	3.0	7.2	771.3	10.5	< 0.20	0.05		65.9	Sun
9	5.1	821	476	3.5	3.4	12.3	< 0.5	7.2		1.1	< 0.20	0.04	0.07	64.9	Sun
10	5.2			3.7		8.7		7.0		64				64.7	Sun
11	8.2			6.6		7.1		7.0		7.4				65.3	Rain
12	6.7	381	248	5.8	1.6	8.5	1.0	7.2			0.49	0.06		64.0	Rain
13	6.0	444	316	5.4	1.7	8.9	1.0	7.0			0.74	0.04		62.5	Cldy
14	5.4	644	540	4.4	7.4	11.2	5.5	7.2		0.81	0.25	0.05	0.08	62.0	Cldy
15	5.3	354	346	4.7	2.2	10.3	< 0.5	7.1	586.0	10.9	3.47	0.05		61.8	Cldy
16	5.8	601	392	4.7	2.9	10.1	1.0	7.1		4.2	3.62	0.07	0.07	61.5	Rain
17	5.5	587	468	4.1	8.0	12.4	< 0.5	7.1		0.3	0.27	0.07		61.6	Rain
18	5.4			3.1		11.1		7.2		0.3	< 0.20			61.0	Sun
19	4.1			2.7		10.9		7.1			< 0.20			60.6	Sun
20	4.4	336	396	2.4	1.9	11.5	9.5	6.9			< 0.20	0.04		59.5	Cldy
21	4.3	490	672	2.6	0.9	11.2	3.5	7.4		5.8	< 0.20	0.05	0.08	58.8	Sun
22	4.2	388	772	3.2	1.8	12.0	2.0	7.3		0.5	1.83	0.07		58.9	Sun
23	4.1			2.7		14.7		7.3	1033.0	9.3				59.0	Sun
24	3.8	748	432	2.1	11.6	12.2	1.0	7.1		5	< 0.20	0.11		59.0	Sun
25	4.0	990	748	2.4	8.9	10.1	2.0	7.1		0.5	< 0.20	0.05	0.07	59.1	Cldy
26	5.0			2.8		11.0		7.1						59.2	Sun
27	4.5	548	212	3.9	9.1	8.3	30.0	7.3			3.83	0.07		59.2	Rain
28	5.2	428	188	4.1	10.6	8.2	1.5	7.1		19.5	4.10	0.06	0.07	59.8	Cldy
29	4.9	289	260	4.4	2.2	9.1	0.5	7.0	830.3	0.7	1.26	0.07		59.8	Cldy
30	5.5	880	592	4.7	2.0	8.3	1.0	7.2		0.8	< 0.20	0.08	0.08	60.3	Rain
avg	5.14	610.5	525.9	3.68	4.70	10.20	< 3.3	7.14	812.6	7.3	< 1.03	0.056	0.083	62.35	
										Geometric Mean	2.8				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management and

BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

SIGNATURE: _____

MONTH: **DECEMBER 2022**

SEWERAGE
CASE NAME: UNIVERSITY AREA JOINT AUTHORITY
MUNICIPALITY: BENNER TOWNSHIP COUNTY: CENTRE
NPDES PERMIT NUMBER: PA0026239

DT	INF FLOW MGD	INF BOD5 mg/L	INF TSS mg/L	EFF FLOW MGD	EFF CBOD5 mg/L	EFF DO mg/L	EFF TSS mg/L	EFF PH STD	EFF TDS mg/L	EFF F.C. /100	EFF NH_3N mg/L	EFF P mg/L	EFF UF - P mg/L	EFF TEMP F	WTH
1	5.6	580	392	4.2	6.0	9.6	1.5	7.5		5.5	< 0.2	0.01		59.4	Sun
2	5.4			3.9		9.3		7.2		0.5				59.5	Sun
3	5.5			4.1		9.4		7.1						59.1	Rain
4	5.5	290	152	3.9	< 5.6	11.4	3.5	7.2			0.52	0.06		58.6	Cldy
5	5.3	472.5	488	4.5	< 2.6	12.6	1.0	7.5		7.3	0.33	0.06	0.07	59.0	Sun
6	5.2	343	256	3.5	< 2.6	8.7	1.0	7.2	747.3	1.6	2.91	0.06		59.7	Rain
7	5.4	442	280	3.8	< 3.7	9.3	1.0	7.1		4.5	0.39	0.06	0.08	60.3	Cldy
8	5.2	480	480	3.5	< 3.5	11.8	< 0.5	7.4		5.0	0.71	0.06		59.7	Sun
9	5.2			4.1		10.7		7.3		8.5				58.9	Sun
10	5.1			4.1		9.5		7.1						58.8	Sun
11	5.2	137	492	4.2	2.9	8.7	1.0	7.2			1.72	0.06		58.6	Cldy
12	5.2	1320	772	4.7	2.0	9.6	< 0.5	7.1		7.3	1.36	0.04	0.06	58.2	Cldy
13	5.1	884	596	4.6	2.3	7.6	1.5	6.9	598.0	6.3	4.30	0.05		57.6	Sun
14	4.8	917	408	3.1	1.6	8.1	0.5	7.1		7.8	3.20	0.05	0.07	57.2	Cldy
15	4.8	777	424	3.9	1.6	9.7	0.5	7.0		3.6	1.50	0.04		57.2	Cldy
16	5.5			4.4		8.9		7.1		5.5				56.7	Sun
17	4.9			3.7		7.2		7.4						55.9	Sun
18	4.7	302	280	2.7	2.6	9.3	1.5	7.4		13.1	6.30	0.04		55.1	Sun
19	4.5	399	412	3.4	1.8	9.8	3.0	7.0		9.0	4.40	0.06	0.11	55.0	Cldy
20	4.4	263	428	3.3	1.9	12.5	< 0.5	7.1	903.8	8.0	4.90	0.06		55.0	Sun
21	4.4	487	480	2.6	2.6	9.8	6.5	7.1		3.7	3.30	0.06	0.13	54.8	Sun
22	5.3	350	320	4.5	2.9	9.3	< 0.5	7.4		7.7	0.90	0.06		53.3	Snow
23	6.5			5.9		10.5		7.2						50.2	Snow
24	5.3			4.0		12.5		7.2						50.1	Sun
25	4.7			2.7	4.6	13.3	4.0	7.2		22.0	< 0.2	0.03		50.4	Cldy
26	4.8	348	380	3.7	1.9	9.1	1.5	7.1		36.0	< 0.2	0.03	0.07	51.9	Cldy
27	4.7	598	620	3.6	2.8	8.3	1.0	7.2	790.3	34.3	0.46	0.03		52.1	Cldy
28	4.7	306	196	3.6	2.5	12.8	3.0	7.2		0.8	0.31	0.03	0.08	52.8	Rain
29	4.7	377	332	3.8	11.5	11.1	2.0	7.2		0.3	0.52	0.03		53.4	Sun
30	5.0			3.9		7.5		7.3						53.6	Cldy
31	5.2	288	264	4.0		10.9		7.1						53.6	Cldy
avg	5.09	493.4	402.5	3.87	< 3.30	9.96	< 1.71	7.20	759.9	9.0	< 1.84	0.047	0.084	56.0	
										Geometric Mean	5.3				

REMARKS: Influent BOD5 testing shall be done at the same frequency as effluent C-BOD5 testing for the purpose of waste load management

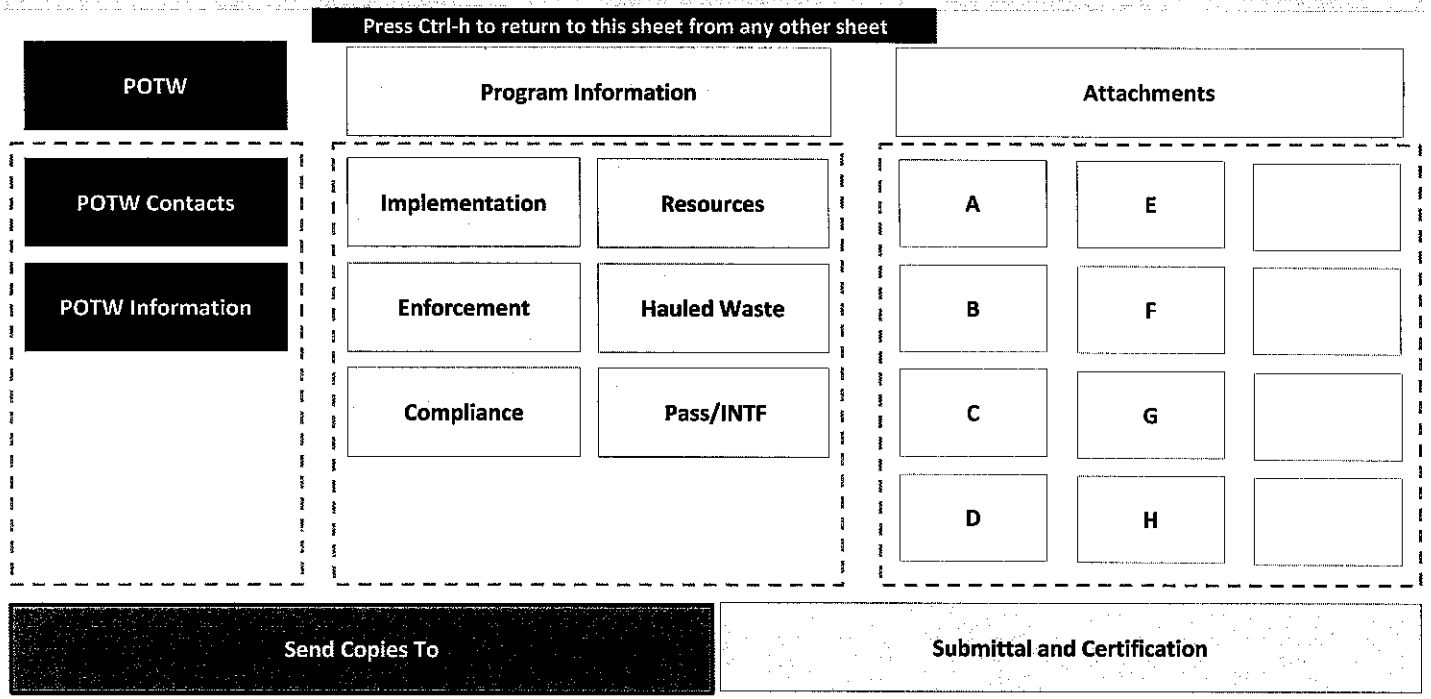
BOD5 - Biochemical Oxygen Demand
CBOD5 - Carbonacious Oxygen Demand
CL_2 - Chlorine Residual
NH_3N - Ammonia Nitrogen
TSS - Total Suspended Solids
FC - Fecal Coliform
P - Phosphorous
TEMP - Temperature
DO - Dissolved Oxygen

APPENDIX C

Pretreatment Annual Report

2022

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority



/// End of Sheet

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Reporting Period

January 1 to December 31 of year	2022

POTW Contacts

Control Authority Name	University Area Joint Authority
NPDES Permit No	PA0026239
Permit Issuance Date	10/1/2019
Permit Expiration Date	9/30/2024
Facility Name	Spring Creek Pollution Control Facility
Facility Address1	1576 Spring Valley Road
Facility Address2	
Facility City	State College
Facility County	Centre
Facility State	PA
Facility Zip	16801

Pretreatment Contact(s) - List all Pretreatment Personnel

	Name	Title
01	Thomas C Willson	Lab Director and IPP Coordinator
02		
03		
04		
05		
06		

Permit Signatory	Thomas M. Randis
Permit Signatory Title	Environmental Program Manager

Contact Phone	814-238-5361
Contact Email	twillson@uaja.org
POTW Site Address	1576 Spring Valley Road, State College, PA 16801

Additional Information

/// End of Sheet

Facility Name: Spring Creek Pollution Control
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

POTW Information

NPDES Effluent Violations?	Yes
Date of Violations	June (FC) and November (NH3-N
Cause of NPDES permit violations?	Equipment Malfunction (UV for
Sludge Disposal Method 1	COMPOSTING
Sludge Disposal Method 2	LANDFILL
Sludge Disposal Method 3	
Highest Treatment Level	Advanced

Treatment Types

Primary Clarification?	Yes
Secondary Clarification?	Yes
Activated Sludge?	Yes
Trickling Filter?	No
Oxidation Ditch?	No
Biotowers?	No
Rotating Biological Contacts?	No
Other?	Chemical flocculation (Alum), Te

POTW Design Flow (mgd)	9
POTW Actual Flow (mgd)	4.9
Total SIU Flow (mgd)	0.1
% Industrial Flow	6 %
POTW Organic (BOD) Design Capacity (lbs/day)	50000
POTW TSS Design Capacity (lbs/day)	26571.24
POTW Ammonia (NH3) Design Capacity (lbs/day)	3985.686
Actual or Estimated total Flow for Commercial (Non-SIU) Dischargers (mgd)	0.3

Additional Information

In addition to the Effluent Limit Violations listed above, UAJA reported several violations of pe

/ End of Sheet

Facility Name: Spring Creek Pollution
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint A

Return to Home

Program Implementation

Number of Permitted Industrial Users as of December 31

CIUs	2
Total SIUs	4
Other Permitted IUs	0
Zero-Discharge CIUs	0
Permitted Zero-Discharge CIUs	0
Middle-Tier CIUs	0
Non-Significant CIUs	0

SIUs with No/Expired Permit as of December 31	0
SIUs with Administratively Extended Permits >180 Days	0
Number of SIUs with current control mechanisms	4
Number of NSCIUs that have violated any pretreatment standard	0

Number of SIUs in significant non-compliance (SNC) as of December 31

	CIUs
SNC Self-monitoring	1
SNC Reporting	0
SNC PT Standards	0
SNC Prohibitions	0
SNC Compliance Schedule	0
SNC Pass Through/Interference	0
SNC Other SNC Violations	0

Number of SIUs in significant non-compliance (SNC) at any time	1
Number of non-SIUs in significant non-compliance (SNC) at any time	0
Number of SIUs in SNC during the previous calendar year	0
SNC during the July to December period	1

# Permitted Non-SIUs With Unknown Compliance Status	0
# SIUs With Unknown Compliance Status	0
Does the ERP include escalating enforcement actions for SNC	Yes

	CIUs
Number of SIUs with compliance schedule as of December 31	0

Control Facility

uthority

includes CIUs + SIUs

Non Categorical SIUs	Total SIUs
0	1
0	0
0	0
0	0
0	0
0	0
0	0

Non Categorical SIUs	Total SIUs
0	0

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Enforcement Actions

	Non-SIUs	SIUs	CIUs
Number of NOVs	0	0	0
Number of Formal Enforcement Actions	0	0	0
Number of different IUs with Formal Enforcement Actions	0	0	0
Number of SIUs on formal compliance schedule	0	0	0

Formal actions at any time during the reporting year including Administrative Orders, show cause hearings, out-of-court settlements that are formal settlements, termination of service, formal compliance schedules, penalty actions EXCEPT civil or criminal suits.

	Civil	Criminal	Total
Number of suits filed against SIUs	0	0	**0**

	Non-SIUs	SIUs
Number of Different IUs From Whom Penalties Were Collected	0	0
Total Penalties Collected	$ -	$ -

Number of IUs Published As Being In SNC 1 Please complete Attachment B

Additional Information

There was only one IU with any violations in 2022. However, UAJA did not issue any written notifications rega

/ End of Sheet

Facility Name: Spring Creek Pollution Contro
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authorit

Return to Home

Compliance Monitoring

	Non-SIU	SIU
Number of individual permits issued	0	4
Number of general permits issued	0	0
Number of inspections in the reporting year	0	4

Overview description of Non-SIU inspections

Number of SIUs not inspected during the reporting year	4
Number of SIUs that submitted required Self-Monitoring Reports	4
Number of SIUs not sampled during the reporting year	0
Number of SIUs in SNC With Self-Monitoring Requirements That Were Not Inspected or Sampled	0

Additional Information

/ End of Sheet

Facility Name: Spring Creek Pollution Cont
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authc

Return to Home

Program Implementation - Resources

Number of Pretreatment FTEs	0.5
Significant Changes (+/- 20%) to The POTW's Pretreatment Program Budget or Staffing?	No
Source of Budget	UAJA Budget
Total Pretreatment Program Budget	$ 116,498

Number of Jurisdictions Covered By Pretreatment Program	5
Adequate delegation in each jurisdiction?	Yes
Miscellaneous Developments and Special Initiatives?	Yes

1) UAJA is in the process of revising its Local Limits. A headworks analysis was performed and submitted in 2021. But we still need to finalize the new limits based on the most recent correspondance with EPA R3 Pretreatment. It is unfortunate that it is has taken so long to get these local limits calculated and implemented, but the limits generated by the spreadsheet are actually very similar to our current limits. 2) There are several bisinesses in our area that have contacted us about discharging small ammounts of treated wastewater that have very low pollutant load, but which woud technically be subject to Federal Categorical Pretreatment Standards if it were discharged into our system. Each has been told that their choice is to collect the wastewater and have it hauled away by a

Additional Information

/ End of Sheet

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Program Implementation - Hauled Waste

Does the POTW receive any discharges of

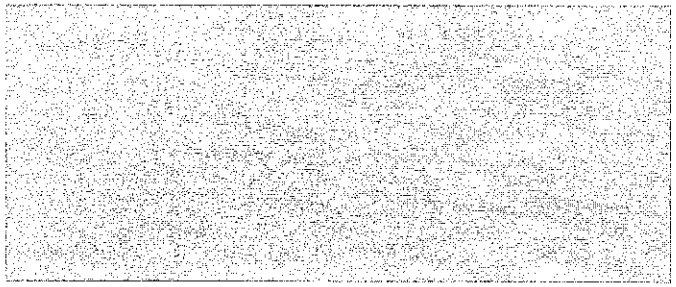
Receive Groundwater From Hydrocarbon Cleanup Site?	No
Receive Hauled Septage (Domestic Only)?	Yes
Receive Hauled Waste From Industrial Sources?	No
Receive Hauled Waste From Commercial Sources?	No
Receive Hauled Categorical Waste?	No
Receive Hauled Grease Interceptor/Trap Waste?	No
Receive Landfill Leachate?	No
Receive CERCLA Cleanup Wastes?	No
Receive Hazardous (RCRA) Waste?	No
RV Dump Stations in Service Area?	No
Receive Other Unique Waste?	Yes
Receive Oil & Gas Waste from Stripper wells?	No

As defined at 40 CFR Part 261 an

If you accept any trucked or hauled waste, indicate all of the following that apply to your POTW

Legal Authority To Control Hauled Waste?	Yes
POTW Issues Permits For Hauled Wastes?	Yes
POTW Has A Designated Disposal Site For Hauled Wastes?	Yes
POTW Controls Access At The Designated Disposal Station?	Yes
POTW Uses A Manifest System To Track/Control Hauled Wastes?	Yes
POTW Believes That Illegal Dumping May Be Occurring In Its Jurisdiction?	No

What parameter if any do you surcharge



d delivered by truck, rail or dedicated pipeline

Facility Name: Spring Creek Pollution Cont
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authc

Return to Home

Program Implementation - Pass/INTF

Instances Of Interference At The POTW?	No
Instances Of Pass Through At The POTW?	Yes

Receive Notification Of The Discharge Of Any Hazardous Waste?	No

If so, names of IUs

01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	

Additional Information

See Attachment C. We don't know that there was actual Pass Through, but it is possib

/ End of Sheet

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment A: List of CIUs/SIUs

	SIU	PERMIT INFO Issued	Effective	Expires	Permit Type	Address	County	SIU INFO Sampled	Inspected	MRS	# of self-monitorings conducted/ required	Limits Type	MAHC	Jurisdiction	SIC Code1	SIC Code2	NAICS Code	Categorical Standard	Total Average Process Flow (gpd)	Total Average Facility Flow (gpd)	MECIU or NSCIU?	Justification	Discharge Status	Description	SNC?
01	API Technologies (for	4/1/2022	4/1/2022	12/31/2022	IP	1000 West College Ave., State College, PA 1	Centre	1	1	12	12/12	Concentratio	No	Ferguson Township	3679		334418	Metal Finishing	6917	We sample and monitor process flow only			Ongoing Continuous Discharge	API Technologies, now doing bi	Yes
02	Chemcut Corporatio	4/1/2022	4/1/2022	12/31/2022	IP	500 Science Park Road, State College, PA 16	Centre	1	1	6	6/6	Concentratio	No	Ferguson Township	3559		333249	Metal Finishing	26.88	We sample and monitor process flow only			Ongoing Batch Discharge	Chemcut discharged 14 batche	No
03	Cintas of State Colle	4/1/2022	4/1/2022	12/31/2022	IP	2700 Carolean Industrial Drive, State Colle	Centre	1	1	4	4/4		No	College Township	7218	7213	812332 and 81291	none	20930.5	We sample and monitor process flow only			Ongoing Continuous Discharge	Cintas has 4 production days pe	No
04	Mount Nittany Medi	4/1/2022	4/1/2022	12/31/2022	IP	1800 East Park Avenue, State College, PA 1	Centre	1	1	4	4/4		No	College Township	8062		622110	none	There is no meter for HVAC Blowdow	2697.5			Ongoing Continuous Discharge	Mount Nittany Medical Center	No
05																									
06																									
07																									
08																									
09																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

Additional Information (eg. Permit coverage changes compared to the previous reporting year)

Starting in 2023 API Technologies has changed it's name to Spectrum Control. I have also been informed that they are now operating 6AM - 4PM Monday-Thursday rather than 5 days a week.

End of Sheet

Facility Name: Spring Creek Pollution Control Fa
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment B: Copy of Newspaper Notice of SNC

Provide a copy of the newspaper notice identifying all IUs which were in SNC during the reporting period. The notice must show the name of the paper and the date of publication.

Copy of Newspaper Notice of SNC submitted? Yes

Additional Information

Printed March 21-23, 2023 by Centre Daily Times, sent proof by email 3/29

/ End of Sheet

Return to Home

Attachment C: Description of Each Incidence of Pass Through or Interference

Provide a description of each incidence of Pass Through or Interference at the wastewater treatment plant or collection system during the year, the cause if determined, and any actions taken by the POTW in response to the Pass Through or Interference.

Description of Pass Through/Interference

01	On the morning of January 17, 2022 we observed globules of hydrocarbon sludge at our headworks and a sheen entering our treatment syst
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	

Additional Information

We sent an Email to EPA R3 Pretreatment on 1/17/2023 about the incident and requesting reporting instructions (Re: Do We Need to Notify

/ End of Sheet

Return to Home

Attachment D: Description of Significant Change in Program Funding/Staffing

An explanation of any significant decrease (20% or greater) in pretreatment funding or staffing of the POTW's Pretreatment Program.

Description of Significant Change in Program Funding/Staffing

None

/ End of Sheet

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

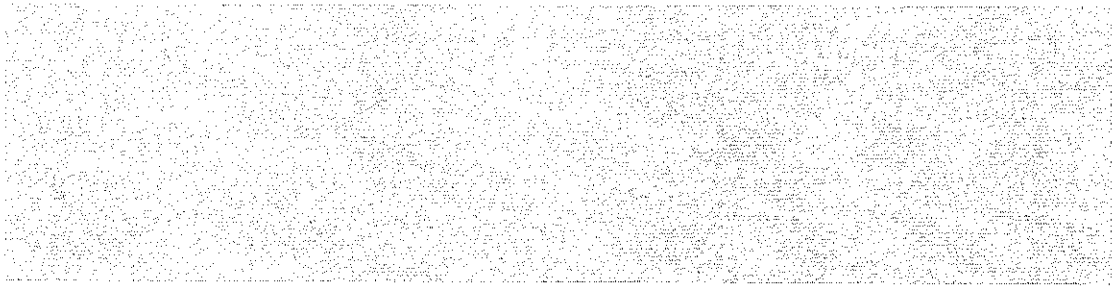
Return to Home

Attachment E1: Permitted Industrial Users (part 1 of 2)

Provide a printout or listing of all permitted non-SIUs

	Permitted Non-SIUs	Address	County	Jurisdiction
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Add more rows



SIC Code	NAICS Code	Rationale for permitting these non-SIUs

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment E2: Permitted Industrial Users (part 2 of 2)

Provide a printout or listing of all SIUs covered by a General Permit

	SIUs covered by a General Permit	Justification Criteria
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Add more rows

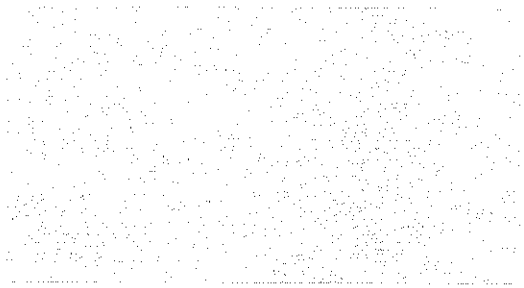
Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment F: IUs in SNC During the Reporting Period

For those IUs in SNC during the Reporting Period

	IU Name	Reason for SNC	Date of Enforcement Action	Type of Enforcement Action	Parameter(s) Violated	Date in Compliance
01	API Technologies (now Spectr	Limits Violations (Technical Review Criteria)	3/30/2023	NOV (follow-up t	Cu load, Cd load, and	Overall complia
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						



Penalties Assessed	Penalties Collected	Quarters In SNC	In SNC during PRP?
No	No	Q1-Q2 for	No

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment G: Modification History

	Type of Modification	Description of Modification	Date of PN	Approval
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Expected Modifications

Facility Name: Spring Creek Pollution Control Facility
Permit Number: PA0026239
Reporting Period: 2022
POTW Name: University Area Joint Authority

Return to Home

Attachment H: Influent/Effluent and Biosolids Monitoring

Influent Monitoring Results Submitted or Attached?	Yes	*Includes priority pollutant scan where applicable*
Effluent Monitoring Results Submitted or Attached?	Yes	
Biosolids Monitoring Results Submitted or Attached?	Yes	*Includes priority pollutant scan where applicable*

Additional Information

/ End of Sheet

Please specify the email addresses of up to five individuals who should each receive a courtesy copy of this Annu

Here is an example:

smith	.	john	@	modernlabs	.	org		smith.john@modernlabs.org

1		.		@		.		
2		.		@		.		
3		.		@		.		
4		.		@		.		
5		.		@		.		

Email File to EPA Region 3

The signature certification page must be printed, signed, and sent in hard copy to US EPA Region 3 at the address below. The QR code must be visible.

Attn: U.S. EPA Region 3 Pretreatment [3WD41]
Four Penn Center
1600 John F Kennedy Blvd
Philadelphia, PA 19103-2852

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: Spring Creek Pollution Control Facility; Permit Number: PA0026239; Reporting Period:

Authorized Signatory Official

03/30/2023
Date

Thomas C Willson
Print or type name and title

Note: The Signatory Official is the person authorized by the POTW to sign the Annual Report (see 40 CFR Section 403.12(m)).

The following documents may be attached to the email or hard copies can be mailed to US EPA Region 3

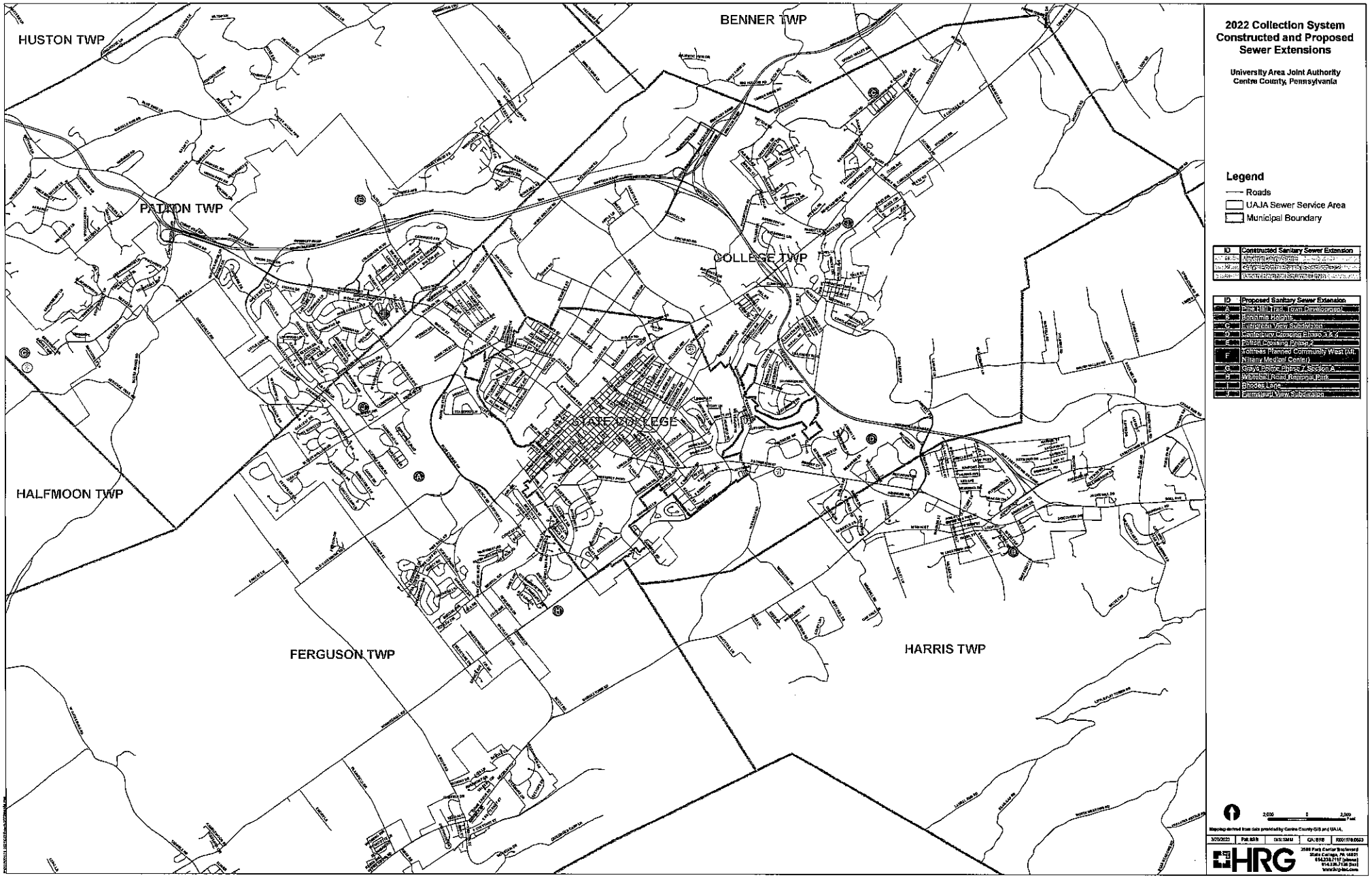
1. A copy of the newspaper notice identifying all IUs which were in SNC during the reporting period. The notice must show the name of the paper and the date of publication.
2. The results of all influent monitoring results that were performed as required in the Pretreatment section of your state issued NPDES permit. The results must include the name of the pollutant, measured concentration, analytical method used, detection
3. The results of all effluent monitoring results from the monitoring required by the Pretreatment section of your state issued NPDES permit. Provide monitoring results for those pollutants that were reported above the detection limit. The results must include the
4. The results of all monitoring results for biosolids (sludge) monitoring for any pollutants listed in 40 CFR Part 122, Appendix D, Table II, III, and V. This is for final sludge to disposal only. This monitoring may have been required by your state issued NPDES permit, or

Time Stamp: 03/30/2023 4:58:02 AM
User Stamp: twillson

APPENDIX D

Sewer System Map

Showing Extensions


HUSTON TWP
BENNER TWP
PATTON TWP
COLLEGE TWP
STATE COLLEGE
HALFMOON TWP
FERGUSON TWP
HARRIS TWP
2022 Collection System Constructed and Proposed Sewer Extensions
University Area Joint Authority
Centre County, Pennsylvania
Legend
Roads
UAJA Sewer Service Area
Municipal Boundary
ID
Constructed Sanitary Sewer Extension
Proposed Sanitary Sewer Extension
A
Circle Hill Trailer Court Development
B
Boalsburg Heights
C
Fairbrook Way Subdivision
D
Easterbrook Crossing Phase 1 & 2
E
Pollock Crossing, Phase 2
F
Address Pending Community West (Mt. Nittany Medical Center)
G
Sayre Pointe, Phase 2, Section A
H
Whitehall Road Regional Park
I
Rhodes Lane
J
Fillmore Park View Subdivision
2,000
0
2,000
Feet
Mapping derived from data provided by Centre County GIS and UAJA.
3/29/2023
Pat: BRR
GIS: SMM
QA: BRR
R001789.0503
HRG
2606 Park Center Boulevard
State College, PA 16801
814.238.7117 (phone)
814.238.7188 (fax)
www.hrg-inc.com

APPENDIX E

Comparison of Pumping Rates to Flows

Summary of 2022 Pump Station Loadings

University Area Joint Authority

Pump Station	2022 EDUs	gpd/EDU (Note 3)	Average Daily Flow		Peaking Factor	2022 Peak Flow (gpm)	Design Flow (gpm)	Percent of Design Capacity (%)
			(gpd)	(gpm)				
Main (College/Harris)	17,590	131.28	2,309,215	1,604	2.5	4,009	15,833	25%
Big Hollow (Note 1)	10,105	131.28	1,326,519	921	2.5	2,303	12,660	18%
Harris Drive	204	131.28	26,845	19	2.5	47	180	26%
Outer Drive	61	131.28	8,008	6	2.5	14	180	8%
Kaywood North (Note 2)	98	131.28	12,865	9	2.5	22	108	21%
Persia	37	131.28	4,917	3	2.5	9	69	12%
Scenery Park	77	131.28	10,109	7	2.5	18	68	26%
Aspen Heights	128	131.28	16,804	12	2.5	29	111	26%
St. Ives Place	98	131.28	12,865	9	2.5	22	90	25%
Shiloh Road (Note 6)	478	131.28	62,752	44	2.5	109	500	22%
Haymarket	136	131.28	17,854	12	2.5	31	83	37%
Ghaner Road	564	131.28	73,976	51	2.0	103	440	23%
Graysdale 2A	122	131.28	16,016	11	2.0	22	76	29%
Graysdale 2B	87	131.28	11,421	8	2.0	16	76	21%
Fox Hill Road	131	131.28	17,132	12	2.5	30	167	18%
Scott Road (Note 5)	1,157	131.28	151,891	105	3.95	417	507	82%
Piney Ridge	155	131.28	20,348	14	2.5	35	174	20%
Marywood (Note 4)	285	131.28	37,415	26	2.0	52	146	36%
The Yards	270	131.28	35,446	25	2.5	62	175	35%

Notes:

1. Flows were diverted to the Big Hollow Pump Station on May 27, 2014. Flow into the pump station is continously metered. The initial number of EDU's was calculated using the totalized flow of 210,000,000 gallons (963,300 gpd) from May 27 - December 31, 2014 and the 2014 5-year average daily flow per EDU of 116 gpd/EDU. Since then, the actual number of EDUs added tributary to the pump station are tabulated.

2. Kaywood Pump Station was relocated in 2019 and is now referred to as Kaywood North Pump Station. For the 2019 Ch. 94 Report, tributary EDUs to the Kaywood (North) Pump Station were re-evaluated using upated aerial imagery and building data, cross referenced with the UAJA's record drawings. Values are notably different than previous reports.

3. Average Daily Flow (gpd/EDU) per 2022 5-year average.

4. Tributary EDUs to the Marywood Pump Station, the Graysdale Pump Stations, and the Ghaner Road Pump Station were re-evaluated in 2015 using updated aerial imagery and building data, cross referenced with the UAJA's billing data. Values are notably different than previous reports.

5. Scott Road Pump Station was upgraded in 2022. Upgraded station became operational in November/December. This evaluation for 2022 conditions uses the design capacity of the pump station prior to upgrade.

6. Shiloh Road Pump Station was upgraded in 2021.

Summary of 2024 Projected Pump Station Loadings								
University Area Joint Authority								
Pump Station	2024 EDUs (Projected)	gpd/EDU (Note 3)	Average Daily Flow		Peaking Factor	2024 Peak Flow (gpm)	Design Flow (gpm)	Percent of Design Capacity (%)
			(gpd)	(gpm)				
Main (College/Harris)	17,744	131.28	2,329,389	1,618	2.5	4,044	15,833	26%
Big Hollow (Note 1)	10,397	131.28	1,364,940	948	2.5	2,370	12,660	19%
Harris Drive	204	131.28	26,845	19	2.5	47	180	26%
Outer Drive	61	131.28	8,008	6	2.5	14	180	8%
Kaywood North (Note 2)	98	131.28	12,865	9	2.5	22	108	21%
Persia	37	131.28	4,917	3	2.5	9	69	12%
Scenery Park	77	131.28	10,109	7	2.5	18	68	26%
Aspen Heights	128	131.28	16,804	12	2.5	29	111	26%
St. Ives Place	105	131.28	13,784	10	2.5	24	90	27%
Shiloh Road (Note 6)	479	131.28	62,927	44	2.5	109	500	22%
Haymarket	136	131.28	17,854	12	2.5	31	83	37%
Ghaner Road	634	131.28	83,166	58	2.0	116	440	26%
Graysdale 2A	123	131.28	16,191	11	2.0	22	76	30%
Graysdale 2B	88	131.28	11,509	8	2.0	16	76	21%
Fox Hill Road	131	131.28	17,132	12	2.5	30	167	18%
Scott Road (Note 5)	1,184	131.28	155,436	108	3.95	426	840	51%
Piney Ridge	155	131.28	20,348	14	2.5	35	174	20%
Marywood (Note 4)	351	131.28	46,079	32	2.0	64	146	44%
The Yards	274	131.28	35,971	25	2.5	62	175	36%

Notes:

1. Flows were diverted to the Big Hollow Pump Station on May 27, 2014. Flow into the pump station is continously metered. The initial number of EDU's was calculated using the totalized flow of 210,000,000 gallons (963,300 gpd) from May 27 - December 31, 2014 and the 2014 5-year average daily flow per EDU of 116 gpd/EDU. Since then, the actual number of EDUs added tributary to the pump station are tabulated.

2. Kaywood Pump Station was relocated in 2019 and is now referred to as Kaywood North Pump Station. For the 2019 Ch. 94 Report, tributary EDUs to the Kaywood (North) Pump Station were re-evaluated using upated aerial imagery and building data, cross referenced with the UAJA's record drawings. Values are notably different than previous reports.

3. Average Daily Flow (gpd/EDU) per 2021 5-year average.

4. Tributary EDUs to the Marywood Pump Station, the Graysdale Pump Stations, and the Ghaner Road Pump Station were re-evaluated in 2015 using updated aerial imagery and building data, cross refereuced with the UAJA's billing data. Values are notably different than previous reports.

5. Scott Road Pump Station was upgraded in 2022. Upgraded station became operational in November/December. This evaluation for 2024 conditions uses the design capacity of the upgraded station.

6. Shiloh Road Pump Station was upgraded in 2021.

APPENDIX F

Flow Measurement Equipment Calibrations

WG Malden
P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: INFLUENT
METER #: C1232 AD

PRIMARY: 46.5
MAXIMUM CAPACITY: 25 MGD
METER: TELEDYNE ISCO **MODEL #:** SIGNATURE LASER **SERIAL #:** 213E02430
RECORDER: **MODEL #:** N/A **SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND VELOCITY CHECKS

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** N/A
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1%
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

REQUESTED SERVICE
TECH SUPPORT SUGGESTED UPDATING FIRMWARE TO CORRECT SPIKING ISSUES
TRIED UPDATING FIRMWARE
LASER SENSOR STOPPED WORKING
REMOVED SENSOR TO BE SENT BACK TO FACTORY
WIRED OUTPUTS FROM OLD METER INTO NEW METER TO GET NUMBERS
REPROGRAMMED
CALIBRATED EQUIPMENT
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): JACOB BROWN, BOB HEINE

WG Malden
P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT RECORDER
METER #: C1232 AG

PRIMARY: RECORDER
MAXIMUM CAPACITY: 30 MGD

METER: N/A	**MODEL #:** N/A	**SERIAL #:** N/A
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1704812-0006

*** WORK PERFORMED ***

METER CALIBRATION **METHOD:** ZERO AND SPAN CHECK	**ERROR:** 0, %	**TOLERANCE:** ±1%
RECORDER CALIBRATION **CHECKED AT:** 0%, 100%	**ERROR:** 0%, 0%	**TOLERANCE:** ±1%
TOTALIZER CALIBRATION **CHECKED AT:** N/A	**ERROR:** N/A	**TOLERANCE:** ±1%

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (R / S) (2)
METER #: C1232 AA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 60
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.03 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±½%
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (L / S) (1)
METER #: C1232 BA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 61.5
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.04 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1%
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: CLASTERS METER PIT
METER #: C1232 BB

PRIMARY: FLUME TRAPEZOIDAL 18
MAXIMUM CAPACITY: 10.0 MGD

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 214E02379
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1097916-0001

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 INCHES	**TOLERANCE:** ±0.125 INCHES

METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1%

CHECKED AT: 0%, 50%, 100%

TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1%

CHECKED AT: 0%, 50%, 100%

*** TECHNICIAN COMMENTS ***

REQUESTED SERVICE
INSTALLED FACTORY REPAIRED METER
PROGRAMMED
PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY
TOTALIZER FROM TEMPORARY METER: 202.109 MILLION GALLONS

SERVICE REPRESENTATIVE(S): JACOB BROWN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: NORTH METER
METER #: C1232 BD

PRIMARY: NOZZLE KENNISON 10
MAXIMUM CAPACITY: 0.5 MGD

METER: TELEDYNE ISCO	**MODEL #:** 4310 SIGNATURE	**SERIAL #:** 221K01505
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1739042-0005

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.03 INCHES	**TOLERANCE:** ±0.125 INCHES

METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1%

CHECKED AT: 0%, 50%, 100%

TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1%

CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, JACOB BROWN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: FEBRUARY 23, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: SOUTH METER
METER #: C1232 BC

PRIMARY: NOZZLE KENNISON 12
MAXIMUM CAPACITY: 1.0 MGD 694.46 GPM

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 221K01506
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1318413-0002

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1%
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1%
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

REQUESTED SERVICE
INSTALLED NEW METER
PROGRAMMED
PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
LEFT EQUIPMENT OPERATING PROPERLY
TOTALIZER OFF OLD METER: 933908X100 GALLONS

SERVICE REPRESENTATIVE(S): JACOB BROWN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: INFLUENT
METER #: C1232 AD

PRIMARY: 46.5
MAXIMUM CAPACITY: 25 MGD
METER: TELEDYNE ISCO **MODEL #:** SIGNATURE LASER **SERIAL #:** 213E02430
RECORDER: **MODEL #:** N/A **SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND VELOCITY CHECKS

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** N/A
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1%
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT RECORDER
METER #: C1232 AG

PRIMARY: RECORDER
MAXIMUM CAPACITY: 30 MGD

METER: N/A	**MODEL #:** N/A	**SERIAL #:** N/A
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1704812-0006

*** WORK PERFORMED ***

METER CALIBRATION **METHOD:** ZERO AND SPAN CHECK	**ERROR:** 0, %	**TOLERANCE:** ±1%
RECORDER CALIBRATION **CHECKED AT:** 0%, 100%	**ERROR:** 0%, 0%	**TOLERANCE:** ±1%
TOTALIZER CALIBRATION **CHECKED AT:** N/A	**ERROR:** N/A	**TOLERANCE:** ±1%

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (R / S) (2)
METER #: C1232 AA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 60
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.03 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±½%
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (L / S) (1)
METER #: C1232 BA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 61.5
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.02 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1%
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: CLASTERS METER PIT
METER #: C1232 BB

PRIMARY: FLUME TRAPEZOIDAL 18
MAXIMUM CAPACITY: 10.0 MGD

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 214E02379
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1097916-0001

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0 INCHES	**TOLERANCE:** ±0.125 INCHES

METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1%

CHECKED AT: 0%, 50%, 100%

TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1%

CHECKED AT: 0%, 50%, 100%

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: NORTH METER
METER #: C1232 BD

PRIMARY: NOZZLE KENNISON 10
MAXIMUM CAPACITY: 0.5 MGD

METER: TELEDYNE ISCO	**MODEL #:** 4310 SIGNATURE	**SERIAL #:** 221K01505
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1739042-0005

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1%
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1%
CHECKED AT: OPERATING VALUE		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: APRIL 05, 2023 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: SOUTH METER
METER #: C1232 BC

PRIMARY: NOZZLE KENNISON 12
MAXIMUM CAPACITY: 1.0 MGD 694.46 GPM

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 221K01506
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1318413-0002

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: INFLUENT
METER #: C1232 AD

PRIMARY: 46.5
MAXIMUM CAPACITY: 25 MGD
METER: TELEDYNE ISCO **MODEL #:** SIGNATURE LASER **SERIAL #:** 213E02430
RECORDER: **MODEL #:** N/A **SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0.1 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND VELOCITY CHECKS

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** N/A
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY
CHANGED DESICCANT

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT RECORDER
METER #: C1232 AG

PRIMARY: RECORDER
MAXIMUM CAPACITY: 30 MGD

METER: N/A	**MODEL #:** N/A	**SERIAL #:** N/A
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1704812-0006

*** WORK PERFORMED ***

METER CALIBRATION **METHOD:** ZERO AND SPAN CHECK	**ERROR:** 0, %	**TOLERANCE:** ±1.000 %
RECORDER CALIBRATION **CHECKED AT:** 0%, 100%	**ERROR:** 0%, 0%	**TOLERANCE:** ±1.000 %
TOTALIZER CALIBRATION **CHECKED AT:** N/A	**ERROR:** N/A	**TOLERANCE:** ±0.000 N/A

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (R / S) (2)
METER #: C1232 AA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 60
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.01 INCHES	**TOLERANCE:** ±0.125 INCHES

METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1.000 %

CHECKED AT: N/A

TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %

CHECKED AT: 0%, 50%, 100%

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (L / S) (1)
METER #: C1232 BA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 61.5
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.08 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: CLASTERS METER PIT
METER #: C1232 BB

PRIMARY: FLUME TRAPEZOIDAL 18
MAXIMUM CAPACITY: 10.0 MGD

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 214E02379
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1097916-0001

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.08 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20 MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: NORTH METER
METER #: C1232 BD

PRIMARY: NOZZLE KENNISON 10
MAXIMUM CAPACITY: 0.5 MGD

METER: TELEDYNE ISCO	**MODEL #:** 4310 SIGNATURE	**SERIAL #:** 221K01505
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1739042-0005

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.01 INCHES	**TOLERANCE:** ±0.125 INCHES

METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %

CHECKED AT: 0%, 50%, 100%

TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %

CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: SOUTH METER
METER #: C1232 BC

PRIMARY: NOZZLE KENNISON 12
MAXIMUM CAPACITY: 1.0 MGD 694.46 GPM

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 221K01506
RECORDER: CHARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1318413-0002

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.08 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: VOL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED SYNCHRONIZER (PASSED)
TESTED 4-20 LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: JULY 12, 2022 **SERVICE CONTRACT:** ANNUAL (A7)
LOCATION: BIG HOLLOW PUMP STATION
METER #: C1232 BE

PRIMARY: FLUME PALMER-BOWLUS 36
MAXIMUM CAPACITY: 13,951 GPM
METER: PROCESS+HAUSER **MODEL #:** FMU90 **SERIAL #:** HA008A150E6
RECORDER: **MODEL #:** N/A **SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0.30 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** N/A
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0 **TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE

*** TECHNICIAN COMMENTS ***

PERFORMED ANNUAL CALIBRATION
ADJUSTED EQUIPMENT
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): BOB HEINE, KYLE RANKIN

WG Malden
P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: INFLUENT
METER #: C1232 AD

PRIMARY: 46.5
MAXIMUM CAPACITY: 25 MGD

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE LASER	**SERIAL #:** 213E02430
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND VELOCITY CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** N/A
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT RECORDER
METER #: C1232 AG

PRIMARY: RECORDER
MAXIMUM CAPACITY: 30 MGD

METER: N/A	**MODEL #:** N/A	**SERIAL #:** N/A
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1704812-0006

*** WORK PERFORMED ***

METER CALIBRATION **METHOD:** ZERO AND SPAN CHECK	**ERROR:** 0,0 %	**TOLERANCE:** ±1.000 %
RECORDER CALIBRATION **CHECKED AT:** 0%, 100%	**ERROR:** 0%, 0%	**TOLERANCE:** ±1.000 %
TOTALIZER CALIBRATION **CHECKED AT:** N/A	**ERROR:** N/A	**TOLERANCE:** ±0.000 N/A

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (R / S) (2)
METER #: C1232 AA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 60
MAXIMUM CAPACITY: 15 MGD
METER: SIEMENS **MODEL #:** HYDRO 200 **SERIAL #:** PBDBN101738
RECORDER: **MODEL #:** N/A **SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION **ERROR:** 0.00 INCHES **TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS

RECORDER CALIBRATION **ERROR:** N/A **TOLERANCE:** ±1.000 %
CHECKED AT: N/A

TOTALIZER CALIBRATION **ERROR:** 0% **TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: EFFLUENT FLOW (L / S) (1)
METER #: C1232 BA

PRIMARY: WEIR RECTANGLE NON-CONTRACTED 61.5
MAXIMUM CAPACITY: 15 MGD

METER: SIEMENS	**MODEL #:** HYDRO 200	**SERIAL #:** PBDBN101738
RECORDER:	**MODEL #:** N/A	**SERIAL #:** N/A

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** N/A	**TOLERANCE:** ±1%
CHECKED AT: N/A		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: CLASTERS METER PIT
METER #: C1232 BB

PRIMARY: FLUME TRAPEZOIDAL 18
MAXIMUM CAPACITY: 10.0 MGD

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 214E02379
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1097916-0001

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
FOUND THERE TO BE 1 INCH OF SILT IN FLUME
RECOMMEND FLUSHING LINE
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: NORTH METER
METER #: C1232 BD

PRIMARY: NOZZLE KENNISON 10
MAXIMUM CAPACITY: 0.5 MGD

METER: TELEDYNE ISCO	**MODEL #:** 4310 SIGNATURE	**SERIAL #:** 221K01505
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1739042-0005

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** -0.05 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0	**TOLERANCE:** ±1.000 %
CHECKED AT: OPERATING VALUE		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

WG Malden

P.O. BOX 196, EAST EARL, PA 17519
PHONE: (717) 768-0800 FAX: (717) 768-0802

*** SERVICE REPORT ***

UNIVERSITY AREA JOINT AUTHORITY
1576 SPRING VALLEY ROAD
STATE COLLEGE, PA 16801

SERVICE DATE: OCTOBER 04, 2022 **SERVICE CONTRACT:** QUARTERLY (Q1)
LOCATION: SOUTH METER
METER #: C1232 BC

PRIMARY: NOZZLE KENNISON 12
MAXIMUM CAPACITY: 1.0 MGD 694.46 GPM

METER: TELEDYNE ISCO	**MODEL #:** SIGNATURE	**SERIAL #:** 221K01506
RECORDER: PARTLOW	**MODEL #:** MRC 5000	**SERIAL #:** 1318413-0002

*** WORK PERFORMED ***

METER CALIBRATION	**ERROR:** 0.00 INCHES	**TOLERANCE:** ±0.125 INCHES
METHOD: LEVEL MEASUREMENTS AND FLOW CHECKS		
RECORDER CALIBRATION	**ERROR:** 0%, 0%, 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		
TOTALIZER CALIBRATION	**ERROR:** 0%	**TOLERANCE:** ±1.000 %
CHECKED AT: 0%, 50%, 100%		

*** TECHNICIAN COMMENTS ***

PERFORMED QUARTERLY CALIBRATION
CLEANED PRIMARY
VERIFIED TOTALIZER (PASSED)
TESTED 4-20MA LOOP
NO ADJUSTMENT NEEDED
LEFT EQUIPMENT OPERATING PROPERLY

SERVICE REPRESENTATIVE(S): KYLE RANKIN, BOB HEINE

Exhibit A

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PADEP Chapter 94 Spreadsheet
Sewage Treatment Plants

Reporting Year: 2022

Facility Name: University Area Joint Authority

Permit No.: PA0026239

Persons/EDU: 3.5

Existing Hydraulic Design Capacity: 10.62 MGD
Upgrade Planned in Next 5 Years? NO **Year:**
Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: 50,000 lbs BOD5/day
Upgrade Planned in Next 5 Years? YES **Year:** 2023
Future Organic Design Capacity: 50,000 lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2018	2019	2020	2021	2022
January	5.07	7.08	5.03	4.91	5.34
February	6.71	7.27	5.79	5.31	6.63
March	5.72	6.72	5.17	5.77	5.48
April	6.24	6.67	5.02	5.34	5.66
May	5.51	6.22	4.88	4.88	5.82
June	5.26	5.58	4.69	4.85	4.58
July	5.41	4.94	4.27	4.64	4.37
August	6.95	4.85	4.39	4.92	4.73
September	7.84	5.6	5.15	6.78	5.54
October	6.57	5.5	5.01	5.85	5.35
November	6.61	4.91	4.62	5.74	5.14
December	6.35	5.04	5.23	4.75	5.09
Annual Avg	6.19	5.87	4.94	5.31	5.31
Max 3-Mo Avg	7.12	7.02	5.33	6.12	5.92
Max : Avg Ratio	1.15	1.20	1.08	1.15	1.11
Existing EDUs	40,058.0	42,822.0	42,599.0	42,710.0	42,651.0
Flow/EDU (GPD)	154.5	137.1	116.0	124.3	124.5
Flow/Capita (GPD)	44.2	39.2	33.1	35.5	35.6
Exist. Overload?	NO	NO	NO	NO	NO

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2018	2019	2020	2021	2022
January	13,148	17,925	11,703	8,795	20,971
February	14,922	19,067	13,795	9,334	23,681
March	13,578	18,131	11,825	12,964	22,554
April	16,094	19,405	10,070	14,586	21,567
May	13,837	14,644	9,829	12,592	20,614
June	12,599	16,639	10,540	12,315	17,404
July	12,979	13,464	10,525	11,207	14,975
August	14,257	13,988	12,475	13,051	17,786
September	16,762	15,860	14,329	17,493	24,498
October	16,036	17,816	12,293	20,293	25,775
November	16,186	15,807	10,938	21,745	25,636
December	15,458	12,107	12,830	27,818	20,567
Annual Avg	14,655	16,238	11,763	15,183	21,336
Max Mo Avg	16,762	19,405	14,329	27,818	25,775
Max : Avg Ratio	1.14	1.20	1.22	1.83	1.21
Existing EDUs	40,058	42,822	42,599	42,710	42,651
Load/EDU	0.366	0.379	0.276	0.355	0.500
Load/Capita	0.105	0.108	0.079	0.102	0.143
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

	2023	2024	2025	2026	2027
New EDUs	220.0	220.0	220.0	220.0	220.0
New EDU Flow	0.0289	0.0289	0.0289	0.0289	0.0289
Proj. Annual Avg	5.55	5.5789	5.6078	5.6367	5.6656
Proj. Max 3-Mo Avg	6.32	6.35	6.38	6.42	6.45
Proj. Overload?	NO	NO	NO	NO	NO

Projected BOD5 Loads for Next Five Years (lbs/day)

	2023	2024	2025	2026	2027
New EDUs	220	220	220	220	220
New EDU Load	82.583	82.583	82.583	82.583	82.583
Proj. Annual Avg	15,917	16,000	16,082	16,165	16,248
Proj. Max Avg	21,002	21,111	21,220	21,329	21,438
Proj. Overload?	NO	NO	NO	NO	NO

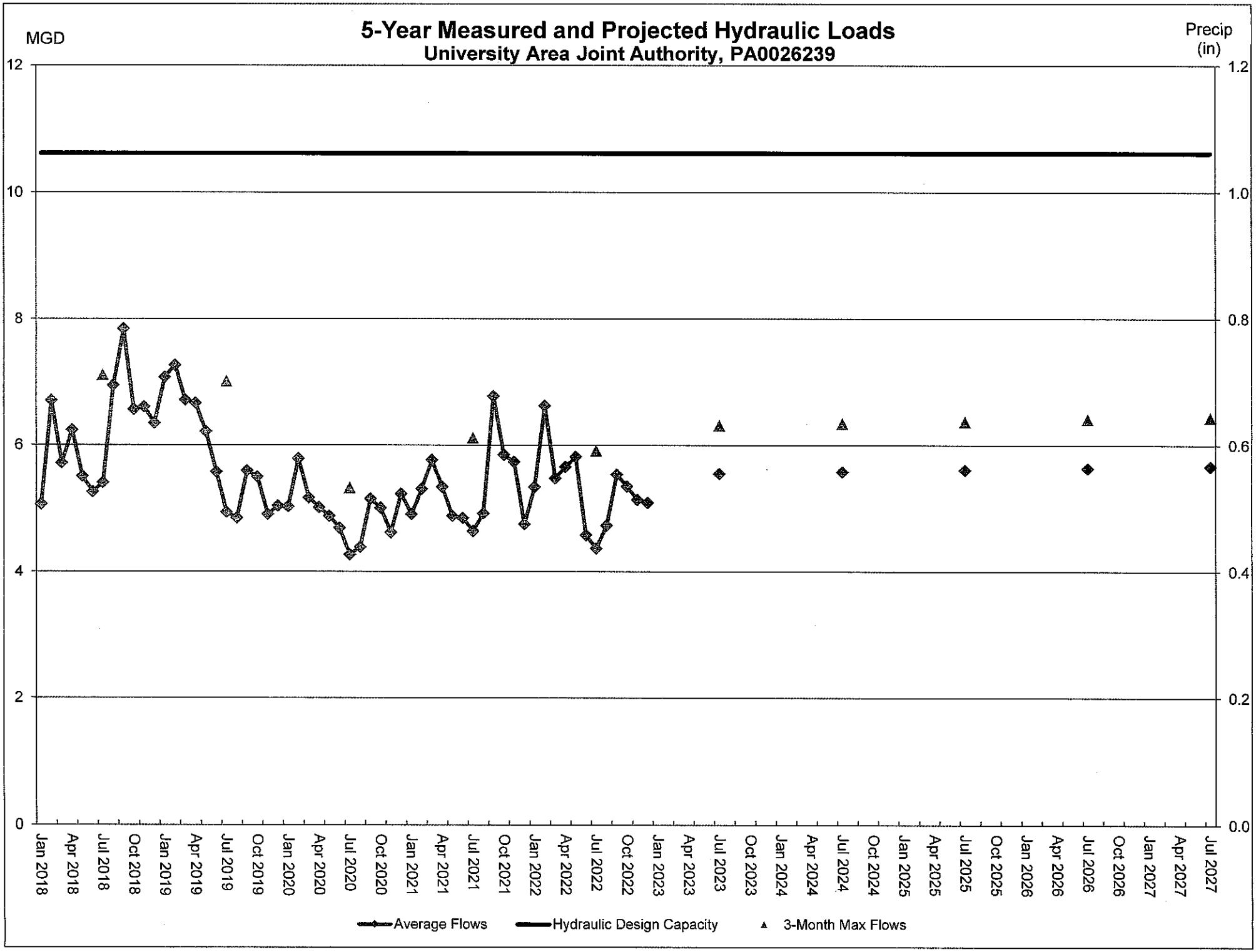
Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

Month	2018	2019	2020	2021	2022
January	2.61	4.66	2.27	1.4	2.3
February	5.86	3.91	2.41	3.02	4.6
March	1.93	2.34	4.93	3.37	1.98
April	3.88	3.55	4.3	2.21	3.15
May	4.17	6.22	3.58	4.57	5.77
June	5.4	3.61	4.94	4.32	2.98
July	9.37	2.51	1.38	5.77	2.52
August	7.37	2.64	2.03	4.87	2.88
September	8.99	1.87	2.27	8.81	3.34
October	4.27	4.5	3.3	3.5	2.0
November	5.41	2.64	3.2	1.73	4.12
December	4.49	3.05	4.49	2.37	4.16

5-Year Measured and Projected Hydraulic Loads

University Area Joint Authority, PA0026239



Monthly Total Precipitation for STATE COLLEGE, PA

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2018	2.61	5.86	1.93	3.88	4.17	5.40	9.37	7.37	8.99	4.27	5.41	4.49	63.75
2019	4.66	3.91	2.34	3.55	6.22	3.61	2.51	2.64	1.87	4.50	2.64	3.05	41.50
2020	2.27	2.41	4.93	4.30	3.58	4.94	1.38	2.03	2.27	3.30	3.20	4.49	39.10
2021	1.40	3.02	3.37	2.21	4.57	4.32	5.77	4.87	8.81	3.50	1.73	2.37	45.94
2022	2.30	4.60	1.98	3.15	5.77	2.98	2.52	2.88	3.34	2.00	4.12	4.16	39.80
Mean	2.65	3.96	2.91	3.42	4.86	4.25	4.31	3.96	5.06	3.51	3.42	3.71	46.02
Max	4.66 2019	5.86 2018	4.93 2020	4.30 2020	6.22 2019	5.40 2018	9.37 2018	7.37 2018	8.99 2018	4.50 2019	5.41 2018	4.49 2018	63.75 2018
Min	1.40 2021	2.41 2020	1.93 2018	2.21 2021	3.58 2020	2.98 2022	1.38 2020	2.03 2020	1.87 2019	2.00 2022	1.73 2021	2.37 2021	39.10 2020

Exhibit B

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PADEP Chapter 94 Spreadsheet
Sewage Treatment Plants

Reporting Year: 2022

Facility Name: University Area Joint Authority | **Permit No.:** PA0026239 | **Persons/EDU:** 3.5

Existing Hydraulic Design Capacity:	10.62	MGD	**Existing Organic Design Capacity:**	50,000	lbs BOD5/day
Upgrade Planned in Next 5 Years?	NO	**Year:**	**Upgrade Planned in Next 5 Years?**	YES	**Year:** 2023
Future Hydraulic Design Capacity:		MGD	**Future Organic Design Capacity:**	50,000	lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

Month	2018	2019	2020	2021	2022
January	5.07	7.08	5.03	4.91	5.34
February	6.71	7.27	5.79	5.31	6.63
March	5.72	6.72	5.17	5.77	5.48
April	6.24	6.67	5.02	5.34	5.66
May	5.51	6.22	4.88	4.88	5.82
June	5.26	5.68	4.69	4.85	4.58
July	5.41	4.94	4.27	4.64	4.37
August	6.95	4.85	4.39	4.92	4.73
September	7.84	5.6	5.15	6.78	5.54
October	6.57	5.5	5.01	5.85	5.35
November	6.61	4.91	4.62	5.74	5.14
December	6.35	5.04	5.23	4.75	5.09
Annual Avg	6.19	5.87	4.94	5.31	5.31
Max 3-Mo Avg	7.12	7.02	5.33	6.12	5.92
Max : Avg Ratio	1.15	1.20	1.08	1.15	1.11
Existing EDUs	40,058.0	42,822.0	42,599.0	42,710.0	42,651.0
Flow/EDU (GPD)	154.5	137.1	116.0	124.3	124.5
Flow/Capita (GPD)	44.2	39.2	33.1	35.5	35.6
Exist. Overload?	NO	NO	NO	NO	NO

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

Month	2018	2019	2020	2021	2022
January	13,148	17,925	11,703	8,795	20,971
February	14,922	19,067	13,795	9,334	23,681
March	13,578	18,131	11,825	12,964	22,554
April	16,094	19,405	10,070	14,586	21,567
May	13,837	14,644	9,829	12,592	20,614
June	12,599	16,639	10,540	12,315	17,404
July	12,979	13,464	10,525	11,207	14,975
August	14,257	13,988	12,475	13,051	17,786
September	16,762	15,860	14,329	17,493	24,498
October	16,036	17,816	12,293	20,293	25,775
November	16,186	15,807	10,938	21,745	25,636
December	15,458	12,107	12,830	27,818	20,567
Annual Avg	14,655	16,238	11,763	15,183	21,336
Max Mo Avg	16,762	19,405	14,329	27,818	25,775
Max : Avg Ratio	1.14	1.20	1.22	1.83	1.21
Existing EDUs	40,058	42,822	42,599	42,710	42,651
Load/EDU	0.366	0.379	0.276	0.355	0.500
Load/Capita	0.105	0.108	0.079	0.102	0.143
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

	2023	2024	2025	2026	2027
New EDUs	220.0	220.0	220.0	220.0	220.0
New EDU Flow	0.0289	0.0289	0.0289	0.0289	0.0289
Proj. Annual Avg	5.55	5.5789	5.6078	5.6367	5.6656
Proj. Max 3-Mo Avg	6.32	6.35	6.38	6.42	6.45
Proj. Overload?	NO	NO	NO	NO	NO

Projected BOD5 Loads for Next Five Years (lbs/day)

	2023	2024	2025	2026	2027
New EDUs	220	220	220	220	220
New EDU Load	82.583	82.583	82.583	82.583	82.583
Proj. Annual Avg	15,917	16,000	16,082	16,165	16,248
Proj. Max Avg	21,002	21,111	21,220	21,329	21,438
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

Month	2018	2019	2020	2021	2022
January	2.61	4.66	2.27	1.4	2.3
February	5.86	3.91	2.41	3.02	4.6
March	1.93	2.34	4.93	3.37	1.98
April	3.88	3.55	4.3	2.21	3.15
May	4.17	6.22	3.58	4.57	5.77
June	5.4	3.61	4.94	4.32	2.98
July	9.37	2.51	1.38	5.77	2.52
August	7.37	2.64	2.03	4.87	2.88
September	8.99	1.87	2.27	8.81	3.34
October	4.27	4.5	3.3	3.5	2.0
November	5.41	2.64	3.2	1.73	4.12
December	4.49	3.05	4.49	2.37	4.16

5-Year Measured and Projected Organic Loads

University Area Joint Authority, PA0026239