

City of Blanchard & BMIA



**JOINT
SPECIAL
MEETING**

10 October 2023

NOTICE AND AGENDA SPECIAL JOINT MEETING

CITY COUNCIL OF THE CITY OF BLANCHARD, OKLAHOMA AND THE
BOARD OF TRUSTEES OF THE BLANCHARD MUNICIPAL IMPROVEMENT AUTHORITY

SPECIAL MEETING

6:00 P.M. Tuesday, OCTOBER 10, 2023

Municipal Court House, 300 N. Main, Blanchard, Oklahoma 73010

IN COMPLIANCE WITH THE STATUTES OF THE STATE OF OKLAHOMA, THE CITY COUNCIL OF THE CITY OF BLANCHARD, AS CALLED BY THE MAYOR AND BMIA CHAIRMAN ON TUESDAY, AUGUST 29th CALLED TO HOLD A JOINT SPECIAL MEETING ON TUESDAY, OCTOBER 10, 2023, TO ADDRESS ITEM 3A AND THE CHAIRMAN/MAYOR CALLED FOR A SPECIAL MEETING TO ADDRESS ITEMS 3B-D AS STATED IN THIS NOTICE AND AGENDA AND CONSISTING OF THE DISCUSSION, CONSIDERATION AND POSSIBLE APPROPRIATE ACTION ON THE FOLLOWING ITEMS:

1. **CALL TO ORDER** by the Mayor and Chairman:
2. **ROLL CALL:**
 - A. City Council; and
 - B. BMIA Board of Trustees.
3. **BMIA/CITY BUSINESS AGENDA:**
 - A. Discussion and possible action on a motion to increase the Utility Rates for water/sewer/sanitation services due to increases with the cost of services from water providers (OKCWUT and City of Newcastle), sewer treatment costs and compliance with ODEQ Consent Order, and solid waste collection (Waste Connections). Action by the BMIA may include the adoption of a Resolution addressing utility fee increases and action by the City of Blanchard may include the adoption of a Resolution and/or an Ordinance changing utility rates, as desired.
 - B. Discussion and a motion to approve an ODEQ Application for wastewater discharge, as requested by the City Engineer.
 - C. Discussion and a motion to approve recommendations by the City Engineer regarding improvements to the OKC Booster Station.
 - D. **MOTION** to go into Executive Session to discuss the following item(s):

1. Discussing the purchase or appraisal of real property [pursuant to Title 25 O.S. §307(B)(3)]
2. Reconvene into Open Session to consider and take appropriate action re: the purchase or appraisal of real property.

4. **ADJOURNMENT.**

This Agenda was posted in prominent public view on the City's website at www.cityofblanchard.us and the City Hall Bulletin Board on or before 5:00 p.m., Friday, the 6th day of October, 2023, in accordance with the Oklahoma Open Meeting Act.

Diana Daniels

City Clerk



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DATE: 9/27/2023

TO: *Robert L. Floyd*, Blanchard City Manager
Blanchard City Council
Kenneth C. Sullivan - City Engineer

FROM: Dustin A. Downey, AICP – Capital Projects Manager
Daniel Ofsthun – Finance Director
David Standridge – Public Works Director

RE: Results of Utility Rate Structure and Consumption Study

City staff reviewed the water rate structures of other communities and the water consumption habits of Blanchard customers, as well as the rates the City of Blanchard is obligated to pay for the water that is sold to our customers prior to the August 29 Special Meeting of the Blanchard City Council. At that meeting, the Council requested that staff prepare one or more alternatives to ensure that our utilities are charging adequate rates to maintain and improve infrastructure. Council members also requested that those who were heavy users should contribute additional for the high usage.

A chart on the following page shows three separate water rate structure options. In the following pages, examples will be shown of how each rate structure impacts the City as a whole, and how it would impact Blanchard customers at differing levels of consumption.

Sanitary sewer rates were also studied to ensure that our revenues meet our expenditures, and at least partially accommodate for the future development of a new sanitary sewer treatment facility. Two proposals for sewer rates are shown, as well as the impacts of said rates on both the consumer and the City.

A proposal for commercial rates is shown which mirrors the residential rate changes. An appendix shows ten tables with the combination of water, sewer and trash rates, in order to visualize the cumulative effects of these changes on Blanchard residents.

Blanchard Residential Water Rate Structure Options

	Option A	Option B	Option C
Base Rate (incl. 1,000 gallons)	\$9.00	\$9.00	\$13.00
Second 1,000 gal	\$4.25	\$5.70	\$5.70
Third 1,000 gal	\$6.50	\$5.90	\$5.70
Fourth 1,000 gal	\$6.50	\$6.11	\$5.70
Fifth 1,000 gal	\$6.50	\$6.32	\$5.70
Sixth 1,000 gal	\$6.90	\$6.54	\$7.14
Up to 10,000 gal (/1k gal)	\$6.90	\$6.70	\$7.14
Up to 15,000 gal (/1k gal)	\$7.87	\$19.73	\$8.05
Up to 20,000 gal (/1k gal)	\$7.87	\$19.73	\$9.18
Up to 40,000 gal (/1k gal)	\$9.18	\$19.73	\$9.18
Up to 100,000 gal (/1k gal)	\$10.22	\$19.73	\$9.18
Over 100,000 gal (/1k gal)	\$10.22	\$19.73	\$9.18

Each of the three rate options shown on the table increases the rates for residential customers using over 1,000 gallons per month (approximately 93% of customers, according to July 2021 consumption data). Also, each option places rate increases as consumption increases at a higher point than the current rate. The difference is in where and how those rate breaks are structured.

Rate tables, such as the one above, show the amount that each thousand gallons costs a purchaser. This is helpful in finding where the difference is between the options. However, residents will be more impacted by what the change in the actual bill is. Below is a comparison of the current water bill versus the three options at four different consumption levels (minimum consumption, median, high, and ultra-high).

Selected Consumptions - Water Bill Only

	Current	Option A	Option B	Option C
Minimum Consumption Bill (less than or equal to 1,000 gallons)	\$10.00	\$9.00	\$9.00	\$13.00
Median Consumption Bill (4,650 gallons)	\$25.53	\$30.48	\$35.07	\$33.81
High Consumption Bill (13,950 gallons)	\$81.80	\$98.34	\$144.30	\$103.30
Ultra-High Consumption Bill (23,250 gallons)	\$138.06	\$175.10	\$327.79	\$181.84

The City is considering raising water rates in order to meet our expenses, which are anticipated to continue to climb over time. Our water system currently runs at

a deficit, and the rate structure is not built to accommodate for future rate increases by the entities we purchase water from, Oklahoma City and Newcastle. Currently, there is not additional funding being siphoned and earmarked for water infrastructure improvements.

Each of the three options accomplishes three major objectives: removing the water deficit, providing adequate revenue to cover additional expenses are not forecasted by showing a projected surplus, and providing 8% of water revenue for funding infrastructure addition and replacement projects. All three plans create a more fiscally sound future for Blanchard water.

Impacts on BMIA Revenue - Residential Water Rate Structure Options

	Option A	Option B	Option C
Projected Annual Revenue	\$1,828,145.23	\$2,745,165.39	\$1,797,479.36
Minimum Revenue Required - No Infrastructure Consideration	\$1,558,974.05	\$1,558,974.05	\$1,558,974.05
8% of Revenue for Infrastructure	\$146,251.62	\$219,613.23	\$143,798.35
Projected Surplus / Shortfall	\$122,919.56	\$966,572.11	\$94,702.96

The 8% infrastructure addition will enable the City to construct major water capital improvements over time, including new towers, replacement of old infrastructure, and other enhancements designed to create a more secure water future for the community.

Blanchard’s sanitary sewer system is also in need of major capital improvements, including a new sewer plant. In order to begin providing funding for the sewer plant, either rates will need to increase substantially, or a new infrastructure fee will need to be established.

Including the increase in the sewer rate will be easier for staff to explain to customers; however, the infrastructure fee will increase public awareness of the need for sewer infrastructure. The following chart shows what the difference will look like with an infrastructure fee versus an increase in the rate.

Sanitary Sewer Residential Rate Options

	Infrastructure Fee - Flat	Infrastructure Fee - Percentage	Rate Change
Base Rate	\$7.00	\$7.00	\$10.00
Infrastructure Fee	\$7.00	30% of total	\$0.00
Up to 10,000 gal (/1k gal)	\$2.73	\$2.73	\$3.45
Up to 20,000 gal (/1k gal)	\$2.78	\$2.78	\$4.44
Over 20,000 gal (/1k gal)	\$3.48	\$3.48	\$5.44

Currently, our residential sewer collections nets approximately \$551,989.15 per year based on the existing rate structure. A modest 5% increase in the sewer rate will continue to keep sanitary sewer running without a deficit, and the remainder of the increase will be allocated for capital construction. Additionally, high volume users will be subject to a higher rate for the high consumption.

Selected Consumptions - Sanitary Sewer Only

	Current	Infrastructure Fee - Flat	Infrastructure Fee - Percentage	Rate Change
Minimum Consumption Bill (less than or equal to 1,000 gallons)	\$9.60	\$16.73	\$12.65	\$13.45
Median Consumption Bill (4,650 gallons)	\$19.09	\$26.69	\$25.60	\$26.04
High Consumption Bill (13,950 gallons)	\$43.47	\$52.28	\$58.87	\$62.04
Ultra-High Consumption Bill (23,250 gallons)	\$68.11	\$80.41	\$95.43	\$106.58

The “rate change” option was designed to create similar rates at the minimum and median bill as the percentage infrastructure fee, and to decrease the amount of effective increase on low consumption users. As shown in the chart above, a flat infrastructure fee leads to higher rates for low consumption users and a smaller increase for high consumption users, as compared to the other two options.

With a 5% increase in the sewer rate, the operating budget would increase to \$593,818.83. This is held constant across the three rate and fee structures. The chart on the following page shows what the impact of these rate changes would be in creating the infrastructure fund.

Impacts on BMIA Revenue - Sewer Rate Structure Options

	Infrastructure Fee - Flat	Infrastructure Fee - Percentage	Rate Change
Projected Annual Revenue	\$716,242.83	\$773,696.44	\$846,024.00
5% Operating Budget Increase	\$593,818.83	\$593,518.83	\$593,518.83
Sewer Infrastructure Fund	\$122,724.00	\$180,177.62	\$252,505.17

The percentage infrastructure fee structure would create a similar or smaller sewer bill than the flat infrastructure fee structure for the lowest 56% of household consumption rates, and create a less than \$5.00 difference on the monthly bill for 77% of sewer rate payers, while creating \$57,453.62 of additional revenue for the sewer infrastructure fund.

Trash service, which has already been adjusted to meet the rate increase from Waste Connections, is not studied in this review, but is included in the overall utility bill calculations, which are shown as an appendix to this report. Trash will be shown as a constant \$24.50, which includes 2 polycarts and recycling.

Commercial rate changes mirror the residential rate changes, and are shown below. The only substantive change in the rate is increasing the base rate for water, and the second 1,000 gallons on option A.

Blanchard Commercial Water Rate Structure Options

	Option A	Option B	Option C
Base Rate (incl. 1,000 gallons)	\$14.00	\$14.00	\$14.00
Second 1,000 gal	\$6.50	\$5.90	\$5.70
Third 1,000 gal	\$6.50	\$5.90	\$5.70
Fourth 1,000 gal	\$6.50	\$6.11	\$5.70
Fifth 1,000 gal	\$6.50	\$6.32	\$5.70
Sixth 1,000 gal	\$6.90	\$6.54	\$7.14
Up to 10,000 gal (/1k gal)	\$6.90	\$6.70	\$7.14
Up to 15,000 gal (/1k gal)	\$7.87	\$19.73	\$8.05
Up to 20,000 gal (/1k gal)	\$7.87	\$19.73	\$9.18
Up to 40,000 gal (/1k gal)	\$9.18	\$19.73	\$9.18
Up to 100,000 gal (/1k gal)	\$10.22	\$19.73	\$9.18
Over 100,000 gal (/1k gal)	\$10.22	\$19.73	\$9.18

Sanitary Sewer Commercial Rate Options

	Infrastructure Fee - Flat	Infrastructure Fee - Percentage	Rate Change
Base Rate	\$7.00	\$7.00	\$10.00
Infrastructure Fee	\$7.00	30% of total	\$0.00
Up to 10,000 gal (/1k gal)	\$2.73	\$2.73	\$3.45
Up to 20,000 gal (/1k gal)	\$2.78	\$2.78	\$4.44
Over 20,000 gal (/1k gal)	\$3.48	\$3.48	\$5.44

APPENDIX

Residential Utility Bill Examples

Current Rates

1	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$10.00	\$25.53	\$81.80	\$138.06
Sanitary Sewer	\$9.60	\$19.09	\$43.47	\$68.11
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$44.10	\$69.12	\$149.77	\$230.67

Water Bill Option A, Sanitary Sewer Flat Infrastructure Fee

2	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$30.48	\$98.34	\$175.10
Sanitary Sewer	\$16.73	\$26.69	\$52.28	\$80.41
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$50.23	\$81.67	\$175.12	\$280.01

Water Bill Option A, Sanitary Sewer Percentage

3	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$30.48	\$98.34	\$175.10
Sanitary Sewer	\$12.65	\$25.60	\$58.87	\$95.43
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$46.15	\$80.58	\$181.71	\$295.03

Water Bill Option A, Sanitary Sewer Rate Change

4	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$30.48	\$98.34	\$175.10
Sanitary Sewer	\$13.45	\$26.04	\$62.04	\$106.58
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$46.95	\$81.02	\$184.88	\$306.18

Water Bill Option B, Sanitary Sewer Flat Infrastructure Fee

5	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$35.07	\$144.30	\$327.79
Sanitary Sewer	\$16.73	\$26.69	\$52.28	\$80.41

Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$50.23	\$86.26	\$221.08	\$432.70

Water Bill Option B, Sanitary Sewer Percentage

6	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$35.07	\$144.30	\$327.79
Sanitary Sewer	\$12.65	\$25.60	\$58.87	\$95.43
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$46.15	\$85.17	\$227.67	\$447.72

Water Bill Option B, Sanitary Sewer Rate Change

7	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$9.00	\$35.07	\$144.30	\$327.79
Sanitary Sewer	\$13.45	\$26.04	\$62.04	\$106.58
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$46.95	\$85.61	\$230.84	\$458.87

Water Bill Option C, Sanitary Sewer Flat Infrastructure Fee

8	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$13.00	\$33.81	\$103.30	\$181.84
Sanitary Sewer	\$16.73	\$26.69	\$52.28	\$80.41
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$54.23	\$85.00	\$180.08	\$286.75

Water Bill Option C, Sanitary Sewer Percentage

9	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
Water	\$13.00	\$33.81	\$103.30	\$181.84
Sanitary Sewer	\$12.65	\$25.60	\$58.87	\$95.43
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$50.15	\$83.91	\$186.67	\$301.77

Water Bill Option C, Sanitary Sewer Rate Change

10	Minimum Consumption	Median Consumption	High Consumption	Ultra-High Consumption
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Water	\$13.00	\$33.81	\$103.30	\$181.84
Sanitary Sewer	\$13.45	\$26.04	\$62.04	\$106.58
Trash	\$24.50	\$24.50	\$24.50	\$24.50
Total Utility Bill	\$50.95	\$84.35	\$189.84	\$312.92



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Robert Floyd <citymanager@cityofblanchard.us>

Discharge Application

1 message

kenneth.sullivan@icloud.com <kenneth.sullivan@icloud.com>
To: Robert Floyd <citymanager@cityofblanchard.us>
Cc: David Standridge <publicworks@cityofblanchard.us>

Tue, Oct 3, 2023 at 2:04 PM

Attached is the ODEQ Application for discharge. Please add an agenda item to the next meeting for the chairman to sign and submit.

Kenneth C. Sullivan


Glenn Sullivan & Associates, Inc.

P.O. Box 720368

Norman, OK 73070

O 405-321-7232

C 405-802-8004

 **2M2 Minor Discharge Application 20231003.pdf**
593K

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
APPLICATION FOR PERMIT TO DISCHARGE MUNICIPAL/DOMESTIC WASTEWATER
UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM (OPDES)

Application for Permit to Discharge Municipal/Domestic Wastewater
FORM 2M2 (Minor)

FOR DEQ
USE ONLY

Application/Permit Number OK00 _____ Facility ID No. _____
Date Received: _____
SIC Code: _____
If a proposed facility, give estimated date of completion: _____
DEQ PERMIT ENGINEER: _____

DO NOT attempt to complete this application without reading the instructions!

SECTION I

1. **Legal name of applicant:** Blanchard Municipal Improvement Authority

2. **Mailing address of applicant:**

Street Address or P.O. Box 122 N. Main St.
City Blanchard County McClain State OK Zip Code 73010
Telephone 405-485-9392 Fax _____
E-mail Address citymanager@cityofblanchard.us

3. **Name and address of facility:**

Facility Name Blanchard Wastewater Treatment Facility
Street Address 1236 SE 7th Street
City Blanchard County McClain State OK Zip Code 73010
Telephone 405-615-4916 Fax _____
E-mail Address publicworks@cityofblanchard.us

4. **Location of discharging facility (e.g., NE ¼, SW ¼, SE ¼, Section 1, Township 2 North, Range 3 West):**

Legal Description of Facility Location _____, N/2, N/2, Section 32, Township T8N, Range R4W
Latitude: 35.1302 N Longitude: 97.6434 W

5. **Type of Ownership:** Public Private Federal State

6. Contact Person:

Name and Title David Standridge
Address 122 N. Main St. City Blanchard
County McClain State OK Zip Code 73010 Telephone 405-485-9392
Fax _____ Cell Phone 405-615-4916
E-mail Address publicworks@cityofblanchard.us

7. Type of discharge:

- A. Wastewater from lagoon system
- B. Wastewater from mechanical plant
- C. Other (specify) _____

8. Type of treatment:

- A. Lagoon system with total retention by evaporation (Does not require this form, it requires Form 530E)
- B. Lagoon system with effluent used for land application only (Does not require this form, it requires Form 627-WRP)
- C. Lagoon system with effluent discharge to receiving water
- D. Lagoon system with effluent discharge and water reuse (Also fill out Section III of application)
- E. Mechanical Plant with effluent discharge: (please describe briefly the type of treatment plant)

- F. Mechanical Plant with discharge and water reuse: (please describe briefly the type of treatment plant and fill out Section III of application)

9. Is chlorine or any other halogen used at this facility?

Yes No

If yes, is dechlorination or dehalogenation used at this facility? (See instructions)

Yes No

Is an ultraviolet (UV) system used at this facility?

Yes No

10. Design flow of facility in million gallons per day (mgd) 0.757 mgd

**11. Discharge point number
(List all outfalls)**

001
002 (if applicable)
003 (if applicable)

**Total volume presently discharged
million gallons per day (mgd)**

0.0

12. Legal description(s) of all discharge point(s):

Outfall 001:

Name of receiving water(s): Blanchard Creek/Walnut Creek

Discharge is (check one): Continuous Batch Intermittent Seasonal

Latitude: 35.1227 N Longitude: 97.6439 W

Legal Description of discharge point NW/4, NW/4, SE/4, Section 32, Township T8N, Range R4W

Outfall 002 (if applicable):

Name of receiving water(s): _____

Discharge is (check one): Continuous Batch Intermittent Seasonal

Latitude: _____ N Longitude: _____ W

Legal Description of discharge point _____, _____, _____, Section _____, Township _____, Range _____

Outfall 003 (if applicable):

Name of receiving water(s): _____

Discharge is (check one): Continuous Batch Intermittent Seasonal

Latitude: _____ N Longitude: _____ W

Legal Description of discharge point _____, _____, _____, Section _____, Township _____, Range _____

13. During periods of heavy rain, is the increased flow:

- Bypassed to the receiving stream with no treatment
- Given partial treatment and discharged
- Given complete treatment and discharged
- Stored for later treatment

14. Biosolids/Sludge generated by this facility:

A. Current biosolids/sludge treatment process. (Please state if sludge is self-contained in the lagoon system, otherwise explain the treatment process)

Sludge is self-contained in the lagoon system.

B. Amount of biosolids/sludge produced (dry metric tons/year) N/A

1. Land application of biosolids

Sludge management plan, if any: _____

Sludge management permit number _____ approved by the Oklahoma Department of Environmental Quality or the Oklahoma State Department of Health on _____

Location(s) of current land application site(s) (legal description to the nearest 10 acres).

Site 1: _____, _____, _____, Section _____, Township _____, Range _____, County _____

Site 2: _____, _____, _____, Section _____, Township _____, Range _____, County _____
(if applicable)

Site 3: _____, _____, _____, Section _____, Township _____, Range _____, County _____
(if applicable)

2. Landfilled sludge

Sludge disposition plan, if any: _____

Sludge disposition permit number (if applicable) _____ approved by the Department of Environmental Quality or the Oklahoma State Department of Health on _____

Name of Landfill _____

Landfill's permit number _____

15. Does this facility receive industrial wastewater?

Yes No

If "Yes", Submit Section II of this form (attached) for each significant industrial facility discharging to the sewer system, including wastewater from water treatment plant.

Are industrial discharge(s) to the system(s) controlled by

- Ordinance
- Pretreatment Program

Yes No

16. Does this facility supply reclaimed water?

If "Yes", Submit Section III of this form (attached) for each user of reclaimed water.

17. Landowner Notification (THIS SECTION MUST BE COMPLETED PRIOR TO SUBMISSION OF THE APPLICATION – THE APPLICATION WILL AUTOMATICALLY BE CONSIDERED INCOMPLETE IF IT IS NOT COMPLETED):

Is any part of the land on which the facility is located (including treatment units, discharge conveyances, stormwater holding basins, and/or flow equalization basins) owned by a person or entity other than the applicant?

No

Yes – the applicant or applicant’s certifying official must ensure that such landowner(s) have been notified of the applicant’s intent to obtain an OPDES permit and initial the box to the right indicating that such notification has been made.

***NOTE: Please mail completed landowner notification affidavit form to DEQ (see instructions)**

18. List other information which should be brought to the attention of the Department of Environmental Quality (DEQ) in regard to the issuance of a discharge permit for the facility.

Certification:

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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that I will provide for the operation of this facility in accordance with the Oklahoma Discharge Permits and Pollution Control Regulations and will provide certified operators as required by the Oklahoma Water and Wastewater Operators Certification Act. I further certify that I shall acquire or possess a right to the use of the property or properties on which the discharging facilities, activities or discharge sources are located as well as the property on which the proposed discharge point(s) are located, including the access route thereto. I understand I shall maintain such right of use and access for the duration of the permit term. I am aware that there are significant penalties for submitting false information, including revocation of the permit and the possibility of fine and imprisonment for knowing violations.

Note: Applications must be signed by the authorized chief elective or executive officer of the applicant, or by the applicant, if an individual.

Name (print) Michael Scaf
Title Chairman
Date _____
Signature _____



Notary Seal

Subscribed and sworn to before me this _____ day of _____, 20_____.

Notary Public Signature My commission expires _____

The application shall be filed in duplicate with the original and one copy to be submitted to the DEQ, and one copy to be submitted to the local DEQ office.

Please return completed form with application fee and attachments to:

Water Quality Division
Department of Environmental Quality
707 N. Robinson
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

SECTION II

INDUSTRIAL WASTEWATER CONTRIBUTION TO MUNICIPAL SYSTEM

Submit a description of each industrial facility discharging to the municipal system, using a separate Section II for each. Indicate the 4 digit Standard Industrial Classification (SIC) Code for the industry, the major product or raw material, the flow (in gallons per day), and the characteristics of the wastewater discharged from the industrial facility into the municipal system. For wastewater from a drinking water plant, indicate the type of treatment plant (conventional, R.O., etc.) in item 2 below.

1. Major Contributing Facility

Contact person and Title _____
 Name of facility _____
 Address _____
 City _____ County _____
 State _____ ZIP Code _____
 Telephone _____ Fax _____ Cell Phone _____
 E-mail Address _____

2. Product or item produced at this facility _____

3. Primary Standard Industrial Classification (SIC) Code _____

4. Principal Product or Raw Material

Product or Raw Material	Quantity	Units
_____	_____	_____
_____	_____	_____
_____	_____	_____

5. Flow: Indicate the volume of wastewater discharged into the municipal system in gallons per day (gpd) and whether this discharge is intermittent or continuous.

_____ GPD Intermittent Continuous

6. Pretreatment Provided: Indicate if pretreatment is provided prior to entering the municipal collection system. Yes No

7. Characteristics of Wastewater: Please list the pollutants and maximum concentrations of the pollutants in the table below.

Parameter Name				
Maximum Concentration				

SECTION III

SITE A

USAGE OF NON-POTABLE RECLAIMED WATER (If Applicable)

A. Supplier Information (Attach a schematic of the additional treatment given to the wastewater for reuse showing sampling point and flow meters for reclaimed water for each user)

- Category of reclaimed water to be supplied (See OAC 252:656 Subchapter 27 and OAC 252:627 for details)
 Category 2 Category 3 Category 4 Category 5
- DEQ Permit No. and Date of Approval of Construction to supply reclaimed water SLR000044150398
- Approximate Quantity of reclaimed water to be supplied 0.29 MGD max
- Location of sampling point for reclaimed water: Latitude: 35.1313 N, Longitude: 97.6411 W
- Attach site plan of the supplier.

B. User Information (Use separate sheet for each site of the reclaimed water. Also, submit a signed copy of the agreement with each user)

- Name of user Blanchard Municipal Improvement Authority
 Contact person and title David Standridge
 Address 122 N. Main St.
 City Blanchard County McClain
 State OK ZIP Code 73010
 Telephone 405-485-9392 Cell Phone 405-615-4916
 E-mail Address publicworks@cityofblanchard.us
- DEQ Construction Permit No. and Date of Approval to use reclaimed water _____
- Section (1/4, 1/4, 1/4,), Township, and Range of the reuse site Section 32, T8N, R4W
- Point of entry of reclaimed water at user's site: Latitude: 35.1313 N, Longitude 97.6411 W
- Attach site plan for each user indicating the area exposed to the reclaimed water.
- Description of the reuse activity: Irrigation of bermuda grass pasture
- Describe access control to general public during the use of reclaimed water:
Site is fenced with locked gates.
- Describe storage facility of reclaimed water at the reuse site:
The lagoon cells are used for storage.
- Approximate acreage, type and amount of crop to be irrigated for each site (applicable only to land application of reclaimed water)

Site Location	Approximate Total Acres	Approximate Irrigated Acres	Type of Crop	Annual Quantity of Crop
A	120	49.6	Bermuda	Unknown

SITE B

SECTION III

USAGE OF NON-POTABLE RECLAIMED WATER (If Applicable)

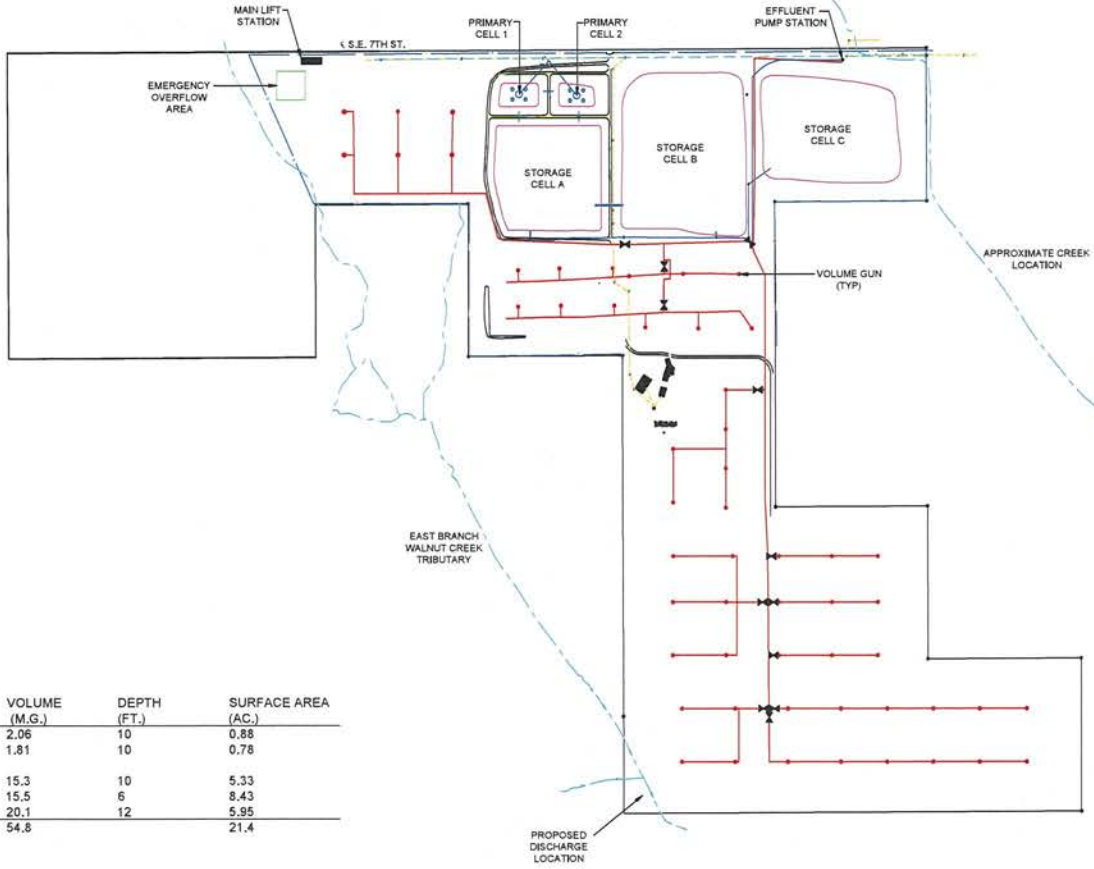
A. Supplier Information (Attach a schematic of the additional treatment given to the wastewater for reuse showing sampling point and flow meters for reclaimed water for each user)

1. Category of reclaimed water to be supplied (See OAC 252:656 Subchapter 27 and OAC 252:627 for details)
 Category 2 Category 3 Category 4 Category 5
2. DEQ Permit No. and Date of Approval of Construction to supply reclaimed water SLR000044150398
3. Approximate Quantity of reclaimed water to be supplied 0.29 MGD max
4. Location of sampling point for reclaimed water: Latitude: 35.1313 N, Longitude: 97.6411 W
5. Attach site plan of the supplier.

B. User Information (Use separate sheet for each site of the reclaimed water. Also, submit a signed copy of the agreement with each user)

1. Name of user Blanchard Municipal Improvement Authority
 Contact person and title David Standridge
 Address 122 N. Main St.
 City Blanchard County McClain
 State OK ZIP Code 73010
 Telephone 405-485-9392 Cell Phone 405-615-4916
 E-mail Address publicworks@cityofblanchard.us
2. DEQ Construction Permit No. and Date of Approval to use reclaimed water _____
3. Section ($\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$), Township, and Range of the reuse site Section 32, T8N, R4W
4. Point of entry of reclaimed water at user's site: Latitude: 35.1205 N, Longitude 97.6465 W
5. Attach site plan for each user indicating the area exposed to the reclaimed water.
6. Description of the reuse activity: Irrigation of bermuda grass pasture
7. Describe access control to general public during the use of reclaimed water:
Site is fenced with locked gates.
8. Describe storage facility of reclaimed water at the reuse site:
The lagoon cells are used for storage.
9. Approximate acreage, type and amount of crop to be irrigated for each site (applicable only to land application of reclaimed water)

Site Location	Approximate Total Acres	Approximate Irrigated Acres	Type of Crop	Annual Quantity of Crop
B	49	23.6	Bermuda	Unknown



	VOLUME (M.G.)	DEPTH (FT.)	SURFACE AREA (AC.)
PRIMARY CELL 1	2.06	10	0.88
PRIMARY CELL 2	1.81	10	0.78
STORAGE CELL A	15.3	10	5.33
STORAGE CELL B	15.5	6	8.43
STORAGE CELL C	20.1	12	5.95
TOTAL	54.8		21.4

NO.	REVISION	DATE

GLENN SULLIVAN & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS AND ARCHITECTS
 101 W. Main Street
 P.O. Box 1288, Blanchard, MO
 Phone (417) 635-1210
 FAX (417) 635-1214
 C.E.T. 2005, Engineer's Date: 10/20/2023

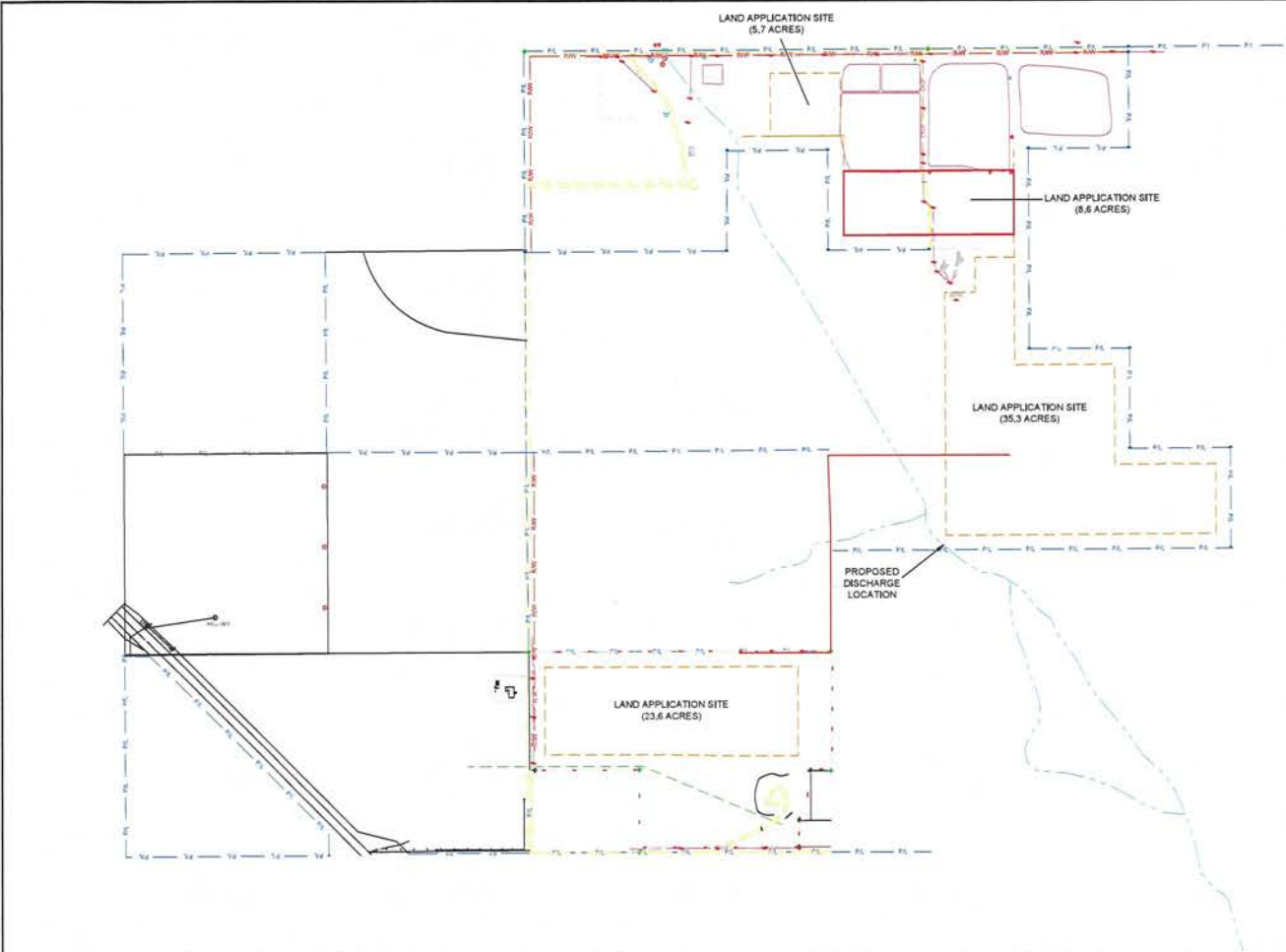
CITY OF
 BLANCHARD/BMA

WASTEWATER
 TREATMENT
 FACILITY

DATE	10/20/2023
DESIGNED BY	KS
CHECKED BY	GR
APPROVED BY	KS
DRAWN BY	SL



ATTACHMENT 1



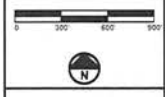
NO	REVISION	DATE

GLENN SULLIVAN & ASSOCIATES, INC.
 10120 Mainville Drive
 P.O. Box 12888
 Knoxville, TN 37912
 Phone: (615) 503-3370
 Fax: (615) 503-3371

**CITY OF
 BLANCHARD/BMIA**

**LAND
 APPLICATION
 SITES**

DATE	10/20/2023
DESIGNED BY	KS
CHECKED BY	GR
APPROVED BY	KS
DRAWN BY	SL



ATTACHMENT 2



3 ~ C



OKC Supply Modeling

1 message

kenneth.sullivan@icloud.com <kenneth.sullivan@icloud.com>

Thu, Oct 5, 2023 at 10:07 AM

To: Robert Floyd <citymanager@cityofblanchard.us>

Cc: David Standridge <publicworks@cityofblanchard.us>, Glenn Sullivan II <glenns2@icloud.com>

Robert,

Attached is a summary of the modeling for the existing OKC Supply. We modeled the existing configuration and then looked at adding booster stations and storage.

As an immediate relief we recommend installing a new pump at the OKC booster station utilizing the existing vfd and electric is possible. This would add 20-25% to the City's supply. We would probably need OKC approval before doing this.

Kenneth C. Sullivan

Glenn Sullivan & Associates, Inc.

P.O. Box 720368

Norman, OK 73070

O 405-321-7232

C 405-802-8004

 **Floyd Modeling Results 20231005.pdf**

907K



Glenn Sullivan & Associates, Inc.

P.O. Box 720368, Norman, OK 73070, (405) 321-7232

Professional Engineers/Consultants

October 5, 2023

Mr. Robert Floyd, City Manager
City of Blanchard
P.O. Box 480
Blanchard, OK 73010-0480

RE: Water Supply Options from Existing OKC Connection

Dear Mr. Floyd:

We have been studying recent data supplied by staff on the pressure ranges at the OKC connection and have run different scenarios in our hydraulic model and present the findings as follows:

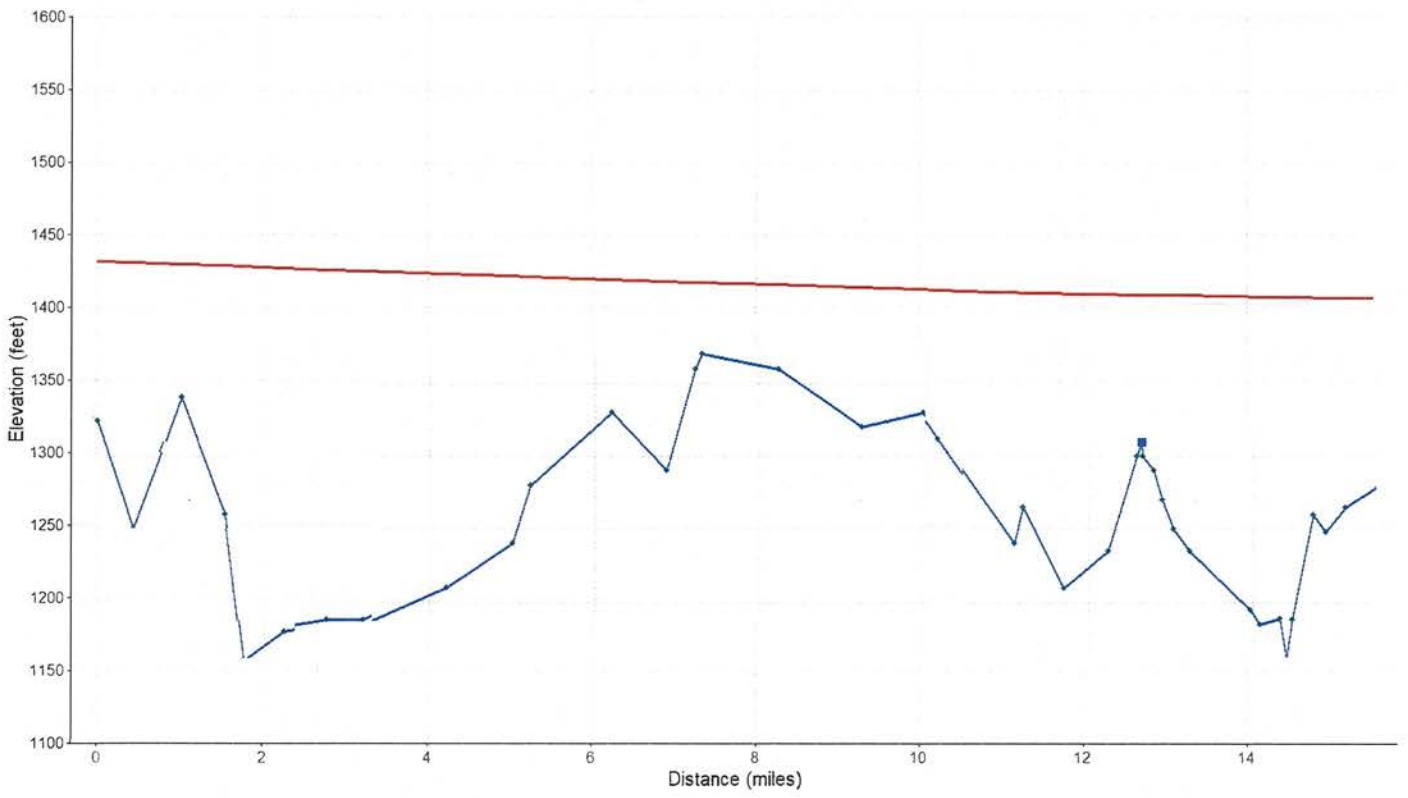
1. **Pressure Range** - At the meter located at SW 104th and County Line, the pressure ranges from a high of 76 psi (1500 HGL) to a low of 46 psi (1432 HGL). Unfortunately, the low typically occurs during periods of high demand in the summer.
2. **Existing System** - The existing system was modeled at both low and high pressures. Flow through the meter at low pressure is approximately **575 gpm** and flow through the meter during high pressure is approximately **855 gpm**. These modeling runs are shown in **Figure 1 and 2**.
3. **OKC Booster Upgrade** - New pumps were added to the model at the existing OKC Booster. Flows range from **1,050 gpm** with low inlet pressure to **1,210 gpm** with high inlet pressure. It should be noted that boosting the flow with the high inlet pressure could result in outlet pressures over 140 psi. These pumps would be in the 40-50 HP range and would require upgrading the electrical, vfd's, and piping. This modeling run is shown in **Figure 3**.
4. As a temporary measure, pumps were sized to use the existing 20 HP vfd's and electrical. Flows range from **840 gpm** with low inlet pressure to **1,030 gpm** with high inlet pressure. We recommend this as a temporary solution to the supply problems.
5. **OKC Booster Upgrade with Storage at Home Creations** - This scenario kept the booster upgrades from 3. above, and added a water tower at the southeast corner of the proposed Home Creations site. Flows out of the booster station ranged range from **940 gpm** with low inlet pressure to **1,240 gpm** with high inlet pressure. Flows just south of the water tower were approximately **1,160 gpm** for both low- and high-pressure supply. During low pressure, the tower is actually draining while the pumps are on and during high pressure, the tower is filling. This modeling run is shown in **Figure 4**.

If you have any questions or require additional information, please contact us.

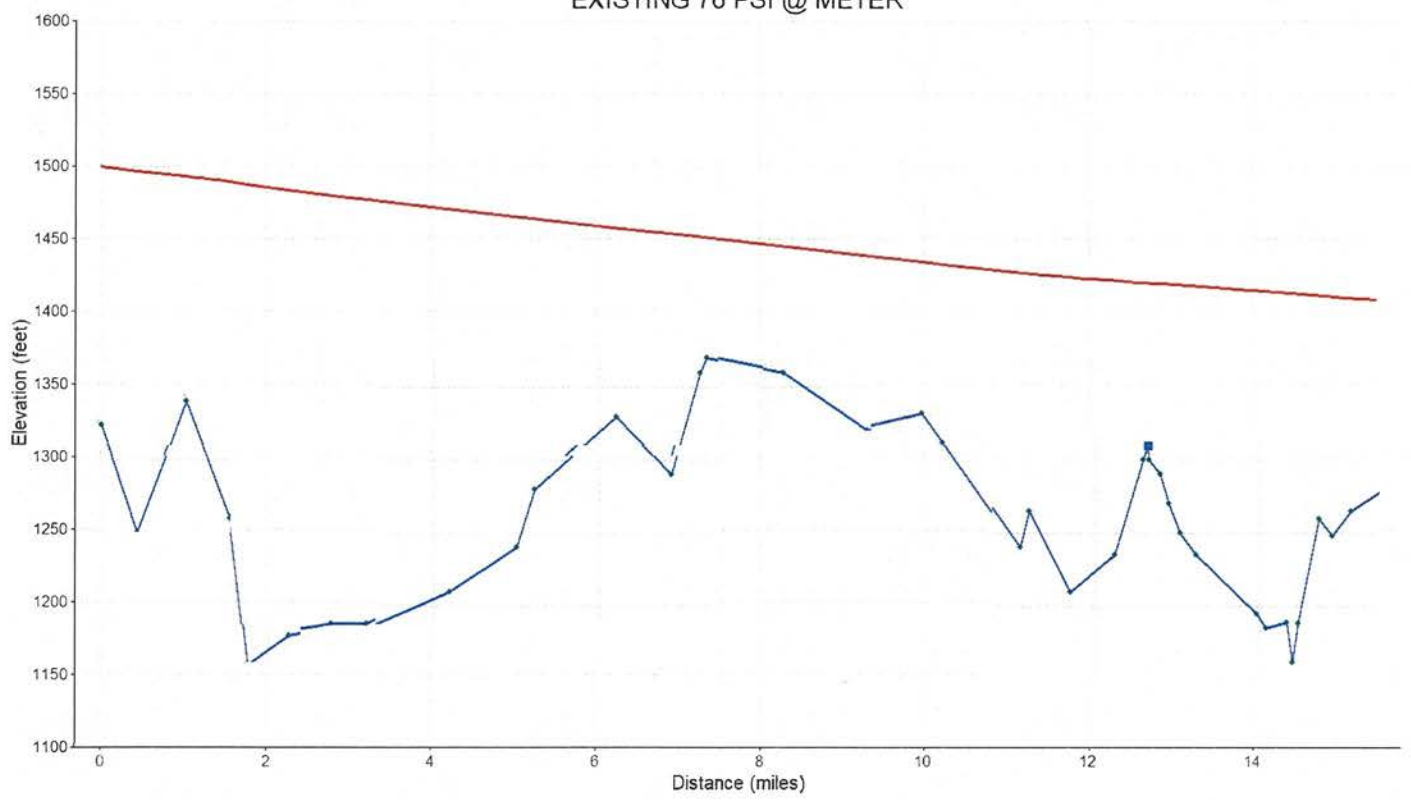
Sincerely,

Kenneth C. Sullivan, P.E.

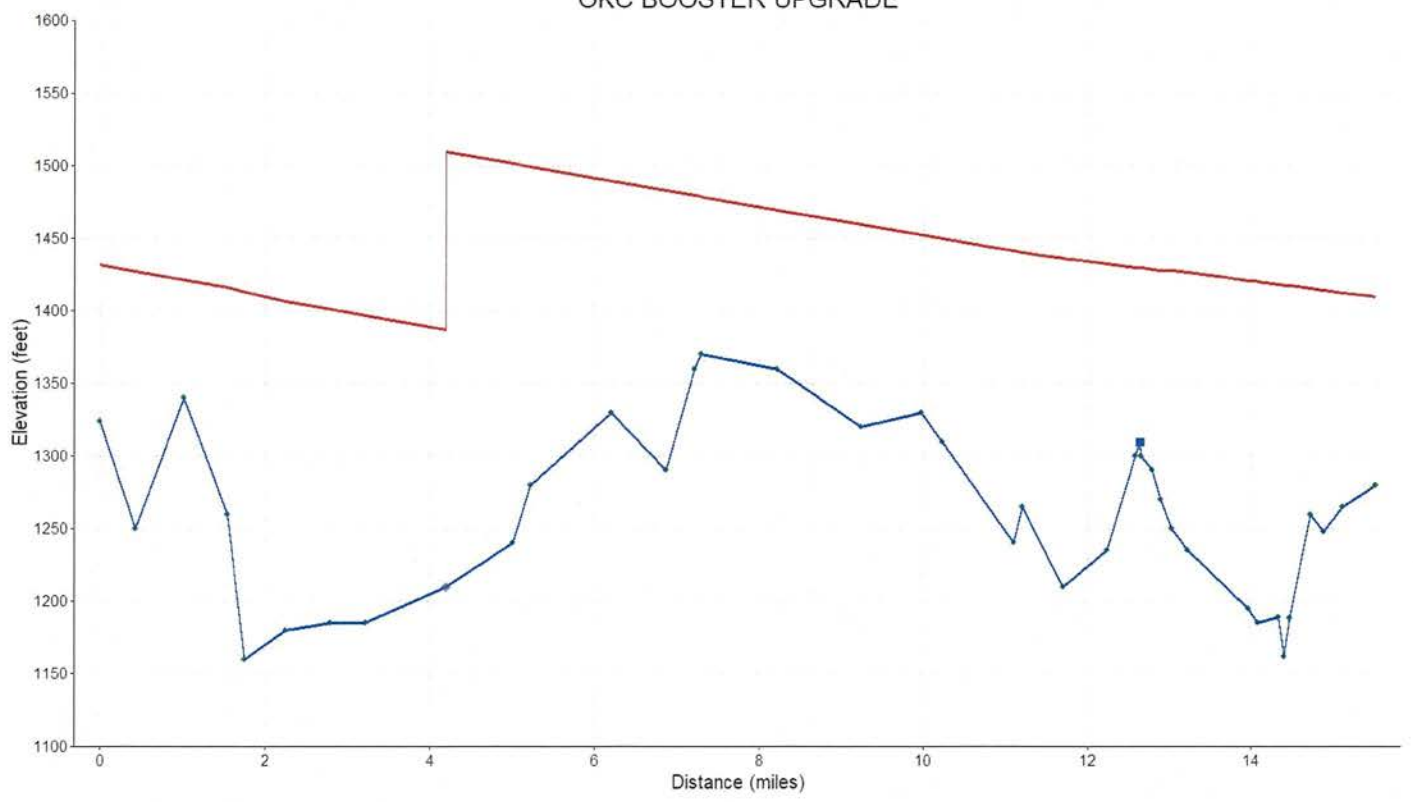
EXISTING 46 PSI AT METER



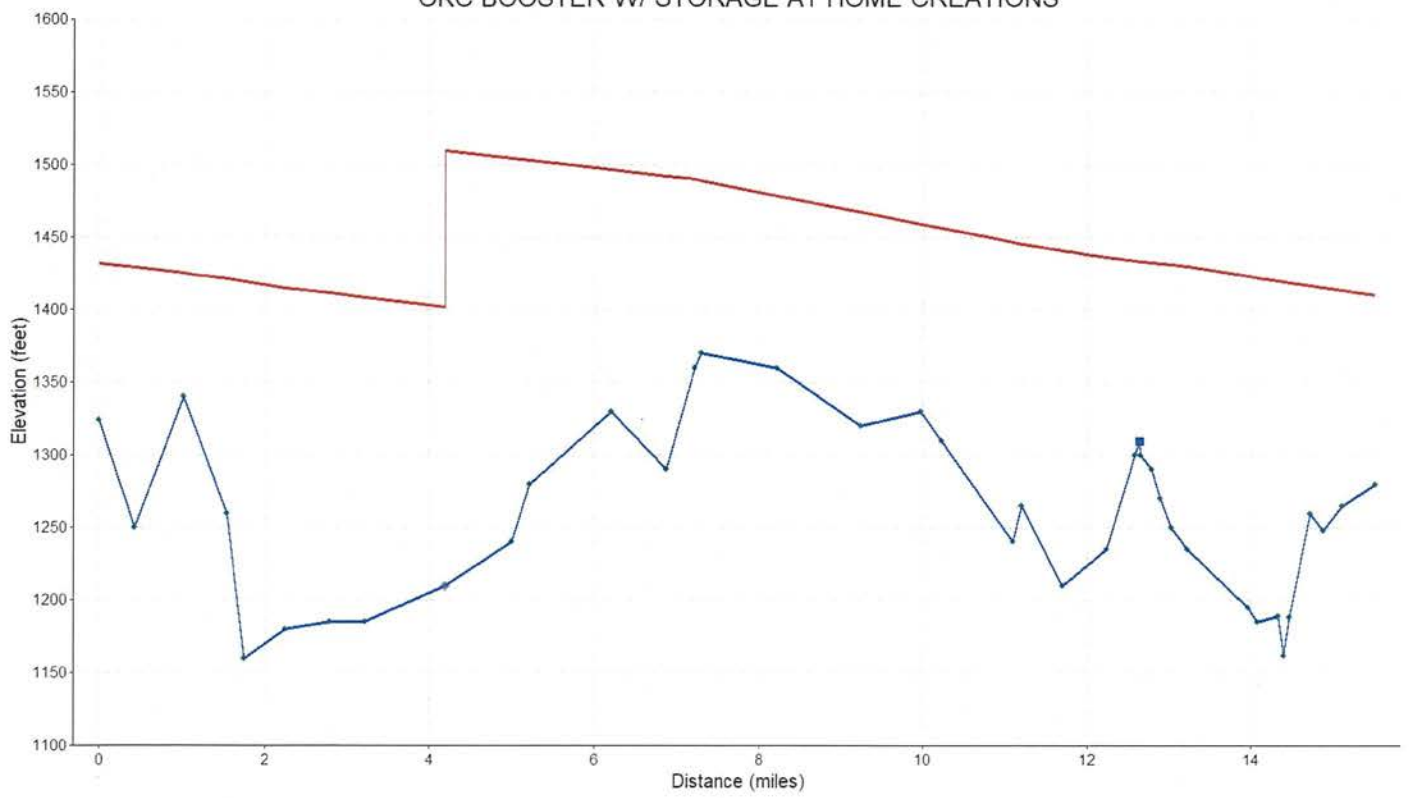
EXISTING 76 PSI @ METER



OKC BOOSTER UPGRADE



OKC BOOSTER W/ STORAGE AT HOME CREATIONS





3 ~ D





4

