



**NOTICE
GLENPOOL UTILITY SERVICE AUTHORITY
REGULAR MEETING**

A Regular Session of the Glenpool Utility Service Authority will be held at 6:00 p.m. immediately following the Glenpool City Council Meeting on November 4, 2024, at Glenpool City Hall, City Council Chambers, 12205 S. Yukon Ave., 3rd Floor, Glenpool, Oklahoma.

NOTE: The Glenpool Utility Service Authority will be assembled for the meeting at the City Council Chambers, 12205 S. Yukon Ave, Glenpool, Oklahoma. Members of the public are invited to attend the in-person meeting, or join a live broadcast at this link:

Join Zoom Meeting

<https://us02web.zoom.us/j/89753555435?pwd=QzdFVjA1b0lKa1lSUFIKbUNrUUxtdz09>

Meeting ID: 897 5355 5435

Passcode: 974088

One tap mobile

+13462487799, US (Houston)

+14086380968, US (San Jose)

Dial by your location

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Passcode: 974088

Find your local number: <https://us02web.zoom.us/j/89753555435?pwd=QzdFVjA1b0lKa1lSUFIKbUNrUUxtdz09>

The GUSA Board welcomes comments from citizens of Glenpool who wish to address any item on the agenda.

- Speakers attending in **PERSON** are required to complete the Request to Speak form located on the agenda table and return to the City Clerk **PRIOR TO THE CALL TO ORDER**.
- Speakers attending via **ZOOM** are required to complete the Request to Speak form located on our website: <https://glenpoolonline.civicweb.net/document/19057/Request%20to%20Speak%20Form.pdf> and email it to the City Clerk: lasmith@cityofglenpool.com **PRIOR TO 6:00 PM, NOVEMBER 4, 2024.**

AGENDA

Page

- A) **Call to Order - Joyce G. Calvert, Chair**
- B) **Roll Call, Declaration of Quorum – Lesli Smith, Secretary; Joyce G. Calvert, Chair**
- C) **Management Report**
- D) **Trustee Comments**
- E) **Public Comments**
- F) **Consideration and appropriate action relating to a request for approval of the Consent Agenda. (All matters listed under "Consent" are considered by the GUSA Board to be routine and will**

be enacted by one motion. Any Trustee may, however, remove an item from the Consent Agenda by request. A motion to adopt the consent Agenda is non-debatable.)

- 1) Minutes from October 7, 2024, and Special October 21, 2024, meetings. 3 - 9
[GUSA - 07 Oct 2024 - Minutes - Pdf](#)
[GUSA Special Meeting- 21 Oct 2024 - Minutes - Pdf](#)

- 2) Approval of purchasing a portable generator from Clifford Power Systems for 10 - 18
\$77,444.41 using the 02-6-18-6333 Capital Purchases account.
[2024-11-04 PW Purchase - GenSet Trailer](#)

G) Consideration and appropriate action relating to items removed from the Consent Agenda

H) Scheduled Business

- 1) Discussion and possible action to acknowledge receipt of the Oklahoma 19 - 22
Department of Environmental Quality Permit No. ST000072240386 for the
construction of a new mechanical wastewater treatment plant.
(David Agbetunsin, City Engineer)
[Staff Report - ST240386.QRK.Final.PER.E.Signed](#)
- 2) Wastewater Treatment Facility Project update and discussion. 23 - 48
(David Agbetunsin, City Engineer)
[WWTF GUSA Board October 2024 Update](#)

I) Adjournment

This notice and agenda was posted at Glenpool City Hall, 12205 S. Yukon Ave., Glenpool, Oklahoma, on November 1, 2024, at 11:30 am.

Signed: Lesli Smith
City Clerk



MINUTES
GUSA Meeting
Monday, October 7, 2024 Council Chambers 6:00 PM

TRUSTEES PRESENT: Joyce Calvert
Tim Fox
Chris Brobst
Jacqueline Triplett-Lund
Shayne Buchanan

TRUSTEES ABSENT:

STAFF PRESENT: David Tillotson
Lesli Smith
Lea Ann Reed
Joe Wuest

STAFF ABSENT:

- A) Call to Order - Joyce G. Calvert, Chair**
Chair Calvert called the meeting to order at 8:21 p.m.
- B) Roll Call, Declaration of Quorum – Lesli Smith, Secretary; Joyce G. Calvert, Chair**
Lesli Smith called the roll, Chair Calvert declared a quorum present. Jana Burk Attorney, of Rosenstein, Fist & Ringold was also in attendance.
- C) Management Report**
There were no additional City Manager comments.
- D) Trustee Comments**
There were no Trustee comments.
- E) Public Comments**
There were no public comments.
- F) Consideration and appropriate action relating to a request for approval of the Consent Agenda. (All matters listed under "Consent" are considered by the GUSA Board to be routine and will be enacted by one motion. Any Trustee may, however, remove an item from the Consent Agenda by request. A motion to adopt the consent Agenda is non-debatable.)**

- 1) Approval of the Minutes from the September 3, 2024, meeting.
- 2) Approval of the 2025 Meeting Schedule.
- 3) Authorizing updated signatories to any and all accounts at Mabrey Bank.
- 4) Authorizing updated signatories to any and all accounts at American Heritage Bank.
- 5) Approval of Resolution No.2024003GUSA, updating signatories of BancFirst accounts.
- 6) Approval of Resolution No.2024004GUSA, updating signatories of BancFirst accounts.
- 7) Approval of Budget Amendment GUSA-01 for FY 24-25 for encumbrances to be rolled forward from the FY 23-24 Budget.
- 8) Approval of Resolution No.2024010, updating signatories of BancFirst accounts.

Moved by Jacqueline Triplett-Lund, seconded by Chris Brobst

To approve the consent agenda.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

G) Consideration and appropriate action relating to items removed from the Consent Agenda

No items removed from the consent agenda.

H) Scheduled Business

- 1) Discussion and possible action to approve or deny a quote to repair a drainage culvert on Longhorn Ave in the Longhorn subdivision.
(Jesse Hale, Public Works Director)

Moved by Chris Brobst, seconded by Tim Fox

To approve a quote to repair a drainage culvert on Longhorn Ave in the Longhorn subdivision.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

- 2) Discussion and possible action to approve, amend or deny the draft permit to construct the new wastewater treatment plant project.
(David Agbetunsin, City Engineer)

Moved by Joyce Calvert, seconded by Chris Brobst

To approve, the draft permit to construct the new wastewater treatment plant project.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

- 3) Discussion and possible action to approve, amend or deny a grant application to the OMAG Sanitary Sewer Root Control reimbursement Grant in the amount of \$4999.99 with a city match of 5000.00.
(Beth Miller, Grants and Special Projects Coordinator)

Moved by Jacqueline Triplett-Lund, seconded by Chris Brobst

To approve, a grant application to the OMAG Sanitary Sewer Root Control reimbursement Grant in the amount of \$4999.99 with a city match of 5000.00.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			

Shayne Buchanan	x			
	5	0	0	0

CARRIED.

Moved by Jacqueline Triplett-Lund, seconded by Chris Brobst

To approve, a grant application to the OMAG Sanitary Sewer Root Control reimbursement Grant in the amount of \$4999.99 with a city match of 5000.00.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

- 4) Discussion and possible action to approve or deny Resolution 2024-005-GUSA, a Resolution of the Glenpool Utility Services Authority (GUSA) Adopting the Planning and Environmental Information Document for the Proposed Glenpool Wastewater Treatment Plant Improvement Project, CWSRF Project No. ORF-23-0055-CW.
(David Agbetunsin, City Engineer)

Moved by Joyce Calvert, seconded by Shayne Buchanan

To approve Resolution 2024-005-GUSA, a Resolution of the Glenpool Utility Services Authority (GUSA) Adopting the Planning and Environmental Information Document for the Proposed Glenpool Wastewater Treatment Plant Improvement Project, CWSRF Project No. ORF-23-0055-CW.

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

- 5) Discussion and possible action to elect Vice-Chair.

(Joyce G. Calvert, Chair)

Moved by Joyce Calvert, seconded by Shayne Buchanan

To elect Jacqueline Triplett- Lund as Vice-Chair

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox		x		
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	4	1	0	0

CARRIED.

- 6) Wastewater Treatment Facility Project update and discussion.
(David Agbetunsin, City Engineer)

Mr. Agbetunsin updated the board on the current status of the Wastewater Treatment Facility Project.

I) Adjournment

The meeting was adjourned at 8:42 p.m.



MINUTES
GUSA Special Meeting
Monday, October 21, 2024 Council Chambers 6:00 PM

TRUSTEES PRESENT: Joyce Calvert
Tim Fox
Chris Brobst
Jacqueline Triplett-Lund
Shayne Buchanan

TRUSTEES ABSENT:

STAFF PRESENT: David Tillotson
Lesli Smith
Lea Ann Reed
Joe Wuest

STAFF ABSENT:

- A) Call to Order - Joyce G. Calvert, Chair**
Chair Calvert called the special meeting to order at 6:13 p.m.
- B) Roll Call, Declaration of Quorum – Lesli Smith, Secretary; Joyce G. Calvert, Chair**
Lesli Smith called the roll, Chair Calvert declared a quorum present. Jana Burk Attorney, of Rosenstein, Fist & Ringold was also in attendance.
- C) Public Comments**
There were no public comments
- D) Scheduled Business**
- 1) Discussion and possible action to approve or deny the final Independent Accountant's Report on Applying Agreed-Upon Procedures for FY 2023-2024 as required by the Creek-2 Rural Water District Settlement Agreement.
(Joe Wuest, Chief Operations Officer)
- Moved by Chris Brobst, seconded by Jacqueline Triplett-Lund
- To approve the final Independent Accountant's Report on Applying Agreed-Upon Procedures for FY 2023-2024 as required by the Creek-2 Rural Water District Settlement Agreement.*

GUSA
October 21, 2024

	For	Against	Abstained	Absent
Joyce Calvert	x			
Tim Fox	x			
Chris Brobst	x			
Jacqueline Triplett-Lund	x			
Shayne Buchanan	x			
	5	0	0	0

CARRIED.

E) Adjournment

The special meeting was adjourned at 6:15 p.m.



To: Honorable Chairman and Trustees, Glenpool Utility Service Authority

From: Jesse Hale, Public Works Director

Date: November 4, 2024

Re: Discussion and possible action to approve or deny a quote for the purchase of a portable generator for the purpose of powering lift stations during power outages.

Move Glenpool Forward (MGF) contains a project that involves the rehabilitation of a sewer lift station at 131st St and Oak St. All of the work has been completed with the only item outstanding being the addition of an onsite backup generator. This lift station is one of seven lift stations in our system that do not have a backup generator. To wisely use our resources, this proposal is to purchase a mobile generator that sits on a trailer which can serve all the stations that do not have an onsite generator. Placing a generator at each station would cost roughly \$35,000 which could give us a total outlay of 7x\$35,000 or \$245,000 and would not give public works the added ability of having a mobile generator for ancillary purposes or special events.

Although a single portable generator cannot be used simultaneously at all 7 stations, typically there is time to pump one station down and then move the generator to pump the others down. To facilitate a faster implementation of the generator, each station will be outfitted with a quick disconnect so the generator can be connected and powered up within minutes with no electrician on site.

The project has been budgeted within the FY24-25 budget. Roughly \$19,380 remains to be spent from the MGF fund to rehab the lift station. The remainder of the budget for this item will be spent on outfitting each of the 7 lift stations with receptacles and breakers to accommodate the new generator.

Recommendation:

Staff recommends purchasing a portable generator from Clifford Power Systems for \$77,444.41 using the 02-6-18-6333 Capital Purchases account.

Attached:

Quote from Clifford Power Systems
Quote from Emergency Power Systems

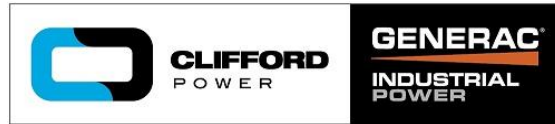
12205 S. Yukon, Glenpool, OK 74033 OFFICE: 918-322-5409 FAX: 918-209-4641

Mayor Joyce Calvert, Ward 3; Vice-Mayor Jacqueline Lund, Ward 4

Tim Fox, Ward 1; Chris Brobst, Ward 2; Shayne Buchanan, At-Large

David Tillotson City Manager, LeaAnn Reed CAO, Joe Wuest COO, Lesli Smith City Clerk

www.glenpoolonline.com



Date: September 4, 2024

Reference: Jesse B. Hale

Equipment Proposed:

Quantity 1 - Generac Mobile diesel engine-driven generator set MDG75DF4, consisting of the following features and accessories:

- Trailered Unit
- 75KVA Rating, 60Hz
- 4-Position Voltage Selector Switch
 - o 277/480VAC Three Phase
 - o 120/208VAC Three Phase
 - o 120/240VAC Three Phase
 - o 120/240VAC Single Phase
- Prime Duty Rating
- CSA
- Standard Alternator
- Variable Speed Cooling Fan
- Standard Run Single Wall Tank
- Tandem Axle
- Surge Brakes
- 2 in. Ball Hitch Adjustable
- Trailer Adapter, Flat 4 to Round 7 Spade
- Aluminum Storage Box
- Rear Stabilizer Jack
- Spare Tire
- 10 Amp Battery Charger
- 50 Ethylene Glycol/50 Water
- Permanent Magnet Excitation
- Fuel and Fluid Containment
- Buck Transformer
- Connection Lugs
- Convenience Receptacles
- PM Voltage Regulator
- MDG75DF4

Quantity 1 - TX Series Automatic Transfer Switch consisting of the following features and accessories:

- 100 Amp, 3 pole, 120/240 VAC three phase, 60 Hz, with 2-Wire Start Circuit
 - o Utility Voltage Sensing Controls:
 - § Adjustable Drop-out and Pick-up
 - § Adjustable Utility Interrupt Delay
 - o Adjustable Logic Controls:
 - § Minimum Standby Voltage
 - § Minimum Standby Frequency
 - § Engine Warmup
 - § Return to Utility

- § Engine Cooldown
- § Transfer on Exercise
- 3 Owner's Manuals
- Double Set of Form C Aux Cont
- IBC Seismic Certified
- Specific Breaker
- Withstand and Close-On Rating - 35kA Specific Breaker
- Enclosure Heater
- UL Listed 1008 by ETL
- Controller and Circuit Breaker Covers, Padlockable, Black
- NEMA 3R Enclosure
- Service Entrance Rated
- Specific Breaker
- In Phase Only Transfer
- Standard two year basic warranty
- TX301NS0100J3CH

Quantity 1 - Freight ATS

Quantity 5 - 5 50' color coaded 4/0 Male/Female Camlock Cables

Quantity 5 - 5 5' Color Coded Male/Female Camlock Pigtales

Project Management Services

- Factory load bank testing
- Submittal drawings
- Dimensional drawings, Electrical drawings, Product specifications
- Production testing
- Technical assistance
- Operation and maintenance manuals for engine, generator

Notes

We are pleased to offer the above for

\$77,444.41

Estimated Delivery:
FOB: Jobsite

Terms and Conditions

The above price does not include fuel, off-loading, installation, or any sales or use tax. Price is valid for Sixty- (60) days. The terms listed are for services rendered during standard business hours (M-F 8:00am-5:00pm).

A detailed Bill of Materials is included. Please refer to the equipment spec sheets and installation drawings for additional information. Please contact us if this information, or any other documentation is needed.

THANK YOU FOR THE OPPORTUNITY TO QUOTE THIS PROJECT!

In signing this proposal, the buyer agrees to the [Terms & Conditions](http://www.cliffordpower.com/terms-conditions) (www.cliffordpower.com/terms-conditions) and the proposal terms listed above.

Sincerely,

Curt Bailey

Clifford Power Systems
918-527-4611.
cbailey@cliffordpower.com

Acceptance of Quote

Prior to ordering equipment or services, please sign and return as a confirmation of the above terms and conditions.

Customer Signature



**Emergency
Power
Systems
Inc.**

**GENERATORS
SWITCHGEAR
RENTALS**

2959 W 21st Street
TULSA, OKLAHOMA 74107
(918)446-0404, Fax (918)446-2411
E-mail sales@epstulsa.com
Web Page www.EPSTulsa.com

**SALES
SERVICE
FABRICATION**

October 24, 2024

Quote No.: EPS3548C

City of Glenpool
Jesse Hale
12205 S. Yukon Ave.
Glenpool, OK 74033



Cell: (918) 807-8851
E-mail: JHale@CityofGlenpool.com

Ref: Lift Station (131st and S. Oak Pl.) - New 62KW Selectable Voltage Weather Resistant Sound Attenuated Enclosure 28 Hour Sub-base Tank Towable Generator and New 100 Amp 3 Pole Solid Neutral 240 Volt Service Entrance Rated NEMA 3R Secure Enclosure Automatic Transfer Switch.

Emergency Power Systems, Inc. is pleased to quote the following system. This system as proposed will be equipped with the following standard and optional equipment.

HIPOWER SYSTEMS

Model Number HRIW-70 T4F, 55 KW at 120/240 Volt, Single Phase 229 Amps, 62KW at 120/208 Volt 381 Amp, 139/240 Volt 185 Amps and 277/480 Volt 93 Amps Standby Rating
Engine Isuzu Diesel Fueled 3.0 Liter IL 4 Cylinder Turbocharged 95 HP Tier 4

Permanent Magnet Generator (PMG)

Electronic Governor

Dry type filters with Air Cleaner Restriction Indicator

Vibration isolators between engine-generator and skid

Unit mounted Radiator with shell and fan guard

12 Volt starter and alternator

Starting battery with cables and mounting tray

6 Amp Battery charger (120V 1Ph AC power from utility)

Battery Disconnect Switch

External Emergency Stop Switch

Main Line Circuit Breaker mounted in a connection box

Four Position Voltage Selector Switch: 120/240 Volt Single Phase - 120/208 Volt, 139/240 Volt and 277/480 Volt Three Phase

Weather Resistant Sound Attenuated 11-Gauge Steel Powder Coated Enclosure



118 Gallon Steel (28) Hour Run Time at 100% Load) Sub-base Fuel Tank with 110% Spill Containment with Fuel Level Gauge

Tandem Axle Trailer with Surge Brakes

Rear Stabilizer Jacks

Spare Tire and Mount

Storage Box

Generator 1800 RPM Brushless type excitation, 60 Hz, 120/240 volt single phase, 120/208 volt, 139/240 and 277/480 Volt three phase, automatic voltage regulator, direct flex disc drive.

Buck Booster Transformer

Distribution Power Panel:

NEMA 3R/IP67 0.09" aluminum panel, black powder coated, weather-proof rated,

Individual Square-D QOU branch breakers

2 x 20A 125V NEMA 5-20 GFCI duplex receptacles,

3 x 50A 125/250V CS6369 twist-lock receptacles & Lexan covers,

1 x 15A 125V NEMA 5-15P Shore line connectors

1 set 400A single pin Camlocks rated 400A with snap covers,

Color coded Camlocks 3Ø – 5W black, red, blue, white & green,

Pad lockable ¼ turn door access with cable trap,

Auxiliary bus bars with mechanical lugs,

1 x single barrel lug per phase; mechanical lugs up to 250MCM cable.

Generator Digital Control Panel

HIPOWER® COMAP IntelliLite MRS16 Control Panel: The IntelliLite MRS16 digital control panel is back-lit with icon LCD text display, and is PC configurable. IntelliLite MRS16 is a comprehensive controller for single gen-sets operating in Standby or Prime modes. Compact construction is optimized for these purposes and various modifications allow customers to select the optimum operation mode for a particular application.

Engine alarms included: High coolant temperature, low oil pressure, low coolant level, unexpected shutdown, low fuel level, stop failure, low battery voltage, battery charging alternator failure, over-speed, under-speed, start failure and emergency stop. Support of engines with ECU (J1939, Modbus and other proprietary interfaces); alarm codes displayed in text form. Standard Limited Warranty: 2 Year / 3500 Hours

Operation & Maintenance Manual on Thumb Drive

Five (5) 4/0 50 Foot Color Coded Male/Female Camlock Cables

Five (5) 4/0 5 Foot Color Coded Male/Bare Camlock Pigtails

ASCO AUTOMATIC TRANSFER SWITCH

Model Number 3AUSA30100FGXM, 11BE, 44G

Series 300 100A 3 Pole Solid Neutral 240 Volt

Service Entrance Rated

U.L. 1008 listed

Group G Controller w/ LCD display & LED indicators

Electrically operated/mechanically held contacts

Solid-state modular construction

Individually adjustable sensors and timers for:

Engine minimum run 5 to 30 minutes

Engine warm-up 5 seconds to 3 minutes

Return to utility 1 to 30 minutes

Engine cool down 1 to 30 minutes

Transfer to standby 70 to 90% of voltage

Transfer to standby 80 to 90% of frequency

Line failure dropout and pickup 70 to 95% of voltage

Utility interrupt delay 0.1 to 10 seconds

Time delay neutral 0.1 to 10 seconds

Inphase monitor provides 160 milliseconds or less transfer time when both sources are within 20 degrees.

Engine warm-up bypass switch

LED status lights for operation sequence

Safety disconnect switch

Neutral connection block

Provision for manual operation

Front door mounted lights to indicate switch position

Test switch to simulate normal power failure

Auxiliary dry contacts one set N.O. and N.C.

Programmable Exerciser

NEMA 3R Secure Enclosure

Internal Strip Heater

2 Year Limited Warranty from Date of Startup

With Custom Phase Rotation Indicator and Color-Coded Panel Mounted Male Camlock Connectors with Covers, an Auto Start Connector & a 50 Foot Cable with matching Connector.

Electrical Equipment, Material, Connections and Installation

Provide labor and materials to complete the following scope of work:

Permits and inspections.

Build and install rack near existing utility meter.

Install service disconnect and ATS on rack.

Install conduit path from meter to new disconnect.

Install conduit path from ATS to load panel.

Install/terminate conduit and wiring between disconnect and ATS.

Disconnect utility from the site.
Disconnect and remove wiring between the meter and load panel.
Install and terminate the new wiring from the utility meter to disconnect.
Install and terminate the new wiring from the ATS to the load panel.
Reconnect the utility power to the site.

Notes & Exclusions:

- All work to be done during normal business hours.
- Price does not include any fire alarm, voice/data or control work.
- Excludes bonding.
- Excludes all prevailing wage requirements.
- Excludes all overtime.

Delivery, electrical and installation of the automatic transfer switch.
Delivery, startup, test and commissioning of towable genset and automatic transfer switch system.

This price includes the above new equipment, delivery, electrical & installation of the ATS and startup & commissioning of the system. It does not include any applicable taxes. This system can be delivered in 14 to 16 weeks after receipt of a firm purchase order.

Your price for this system is: **Total Price: \$92,135.32**

Customer Authorization: _____ Date: _____

Terms and Conditions

Clarifications, Exceptions:

NOTE: HRIW-70 T4F overall dimensions are approximately 175"L x 76.8"W x 92"H,
4,600Lbs.

HRIW-70 T4F Diesel usage at a 100% Load 4.2 GPH

Quotation Terms and Conditions:

- Payment by credit card will be subject to a 4% convenience fee in addition to the quoted amount.
- Pricing is firm for order(s) received within 30 days of quotation date. Material escalation fees may be applicable beyond 30 days of quotation date. State and local taxes, which may be applicable, are not included in this quotation. Payment terms are Net 30 days with approved credit.
- EPS will progress bill for major materials upon receipt by EPS, and for work as completed throughout the duration of the project.
- EPS will invoice for equipment upon delivery and project phases as completed.
- Project cancellation charges will be a minimum of, but not limited to, 15% of the total project value.

- Delivery is estimated as **above** after order is released for production and contingent upon receipt of approved submittals and receipt of written purchase order.
- Operations and Maintenance Manual quantity is listed above. Additional Manuals are available at \$100.00 each.
- All pricing quoted is contingent upon your acceptance of delivery at job site or other designated location within 30 days of our stated manufacturer's ship date. Equipment held for more than 30 days may be subject to storage charges based on the total project value.
- **Quoted equipment is based on the supplied equipment specification IF ANY, exceptions to specifications are as noted.**
Any additional requirements listed in local codes, general specifications or other sources are not included with this quotation.
- Any additional service time is available at our published field service rates.

Thank You for this opportunity to quote. If you have any questions, please contact Ron Haynes at 918-446-0404 or rhaynes@epstulsa.com.

Sincerely,

Ron Haynes



To: Chair and Trustees, Glenpool Utility Services Authority (GUSA)

From: David Agbetunsin, City Engineer

Date: November 4, 2024

Re: Acknowledgement of the Permit to Construct for the New Wastewater Treatment Plant Project

Background

The GUSA Board may recall that the Oklahoma Department of Environmental Quality (DEQ) issued a draft Permit to Construct on August 30, 2024, allowing for a 30-day public comment period. With no public comments received, DEQ issued the final Permit to Construct (Permit No. ST000072240386) on October 21, 2024. The project is now authorized to proceed in accordance with the approved construction documents.

GUSA must acknowledge receipt of the draft permit to construct in the minutes of its regular board meeting.

Staff Recommendation

Staff recommend acknowledging the ODEQ permit to construct with permit number ST000072240386 for the new wastewater treatment plant project.

Attachments

- Permit to Construct # ST000072240386

12205 S. Yukon, Glenpool, OK 74033 OFFICE: 918-322-5409 FAX: 918-209-4641

Mayor Joyce Calvert, Ward 3; Vice-Mayor Jacqueline Lund, Ward 4

Tim Fox, Ward 1; Chris Brobst, Ward 2; Shayne Buchanan, At-Large

David Tillotson City Manager, LeaAnn Reed CAO, Joe Wuest COO, Lesli Smith City Clerk

www.glenpoolonline.com



October 21, 2024

Ms. Joyce Calvert, Mayor
Glenpool Utility Services Authority
12205 S Yukon Ave
Glenpool, Oklahoma 74033

Re: Permit No. ST000072240386
New Wastewater Treatment Plant to Serve the City of Glenpool
Facility No. S-20430

Dear Ms. Calvert:

Enclosed is Permit No. ST000072240386 for the construction of one (1) 3.0 million gallons per day (mgd) mechanical wastewater treatment plant that consists of a 7.5 mgd influent lift station, one (1) grit chamber, two (2) 6.0 mgd mechanical bar screens, three sequencing batch reactors with a volume of 1.18 million gallons, seven (7) 125-hp blowers, one (1) post flow equalization basin, two (2) aerobic digesters with a volume of 628,000 gallons each, two (2) UV disinfection system channels with three (3) UV banks, two (2) screw press dewatering systems, one (1) 6.0 mgd effluent lift station, converting the existing lagoon into a two (2) compartment flow equalization basin with a total volume of 12.0 million gallons, one (1) chlorination feed and storage system, one (1) dechlorination feed and storage system, one (1) polymer feed and storage system and all appurtenances to serve the City of Glenpool Tulsa County, Oklahoma.

The project authorized by this permit should be constructed in accordance with the plans approved by this Department on October 21, 2024. Any deviations from the approved plans and specifications affecting capacity, flow or operation of units must be approved, in writing, by the Department before changes are made. Receipt of this permit should be noted in the minutes of the next regular meeting of the Glenpool Utility Services Authority, after which it should be made a matter of permanent record.

Receipt of this permit should be noted in the minutes of the next regular meeting of the Glenpool Utility Services Authority, after which it should be made a matter of permanent record.

We are returning one (1) set of the approved plans to you, one set (1) to your engineer and retaining one (1) set for our files.

Respectfully,

Qusay Kabariti, P.E.
Construction Permit Section
Water Quality Division

QK/RC/md

c: Debbie Nichols, Regional Manager, DEQ
TULSA DEQ OFFICE
Russell D. Tate, P.E., Garver



PERMIT No. ST000072240386

SEWAGE TREATMENT

FACILITY No. S-20430

PERMIT TO CONSTRUCT

October 21, 2024

Pursuant to O.S. 27A 2-6-401, the Glenpool Utility Services Authority is hereby granted this Tier II Permit to construct one (1) 3.0 million gallons per day (mgd) mechanical wastewater treatment plant that consists of a 7.5 mgd influent lift station, one (1) grit chamber, two (2) 6.0 mgd mechanical bar screens, three sequencing batch reactors with a volume of 1.18 million gallons, seven (7) 125-hp blowers, one (1) post flow equalization basin, two (2) aerobic digesters with a volume of 628,000 gallons each, two (2) UV disinfection system channels with three (3) UV banks, two (2) screw press dewatering systems, one (1) 6.0 mgd effluent lift station, converting the existing lagoon into a two (2) compartment flow equalization basin with a total volume of 12.0 million gallons, one (1) chlorination feed and storage system, one (1) dechlorination feed and storage system, one (1) polymer feed and storage system and all appurtenances to serve the City of Glenpool, located in Section 11, T-17-N, R-12-E, Tulsa County, Oklahoma, in accordance with the plans approved on October 21, 2024.

By acceptance of this permit, the permittee agrees to operate and maintain the facility in accordance with the Discharge - OPDES (NPDES) rules OAC 252:606 and to comply with the State Certification laws, Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirements for certified operators.

This permit is issued subject to the following provisions and conditions.

- 1) That the recipient of the permit is responsible that the project receive supervision and inspection by competent and qualified personnel.
- 2) That construction of all phases of the project will be started within one year of the date of approval or the phases not under construction will be resubmitted for approval as a new project.
- 3) That no significant information necessary for a proper evaluation of the project has been omitted or no invalid information has been presented in applying for the permit.
- 4) That the Oklahoma Department of Environmental Quality shall be kept informed of occurrences which may affect the eventual performance of the works or that will unduly delay the progress of the project.
- 5) That the issuing of this permit does not relieve the responsible parties from any damage which may accrue as the result of the location and operation of the plant in this area.
- 6) That the recipient of the permit is responsible for the continued operation and maintenance of these facilities in accordance with the rules and regulations adopted by the Environmental Quality Board and that this Department will be notified in writing of any sale or transfer of ownership of the facilities.



PERMIT No. ST000072240386

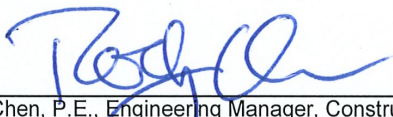
SEWAGE TREATMENT

FACILITY No. S-20430

PERMIT TO CONSTRUCT

- 7) That these facilities are approved for an average hydraulic loading of 3.0-mgd or an organic load of 5,000 pounds of BOD₅/day. Before additional loading is connected to the system, plans for suitable enlargement of the facilities shall be submitted to the Oklahoma Department of Environmental Quality for approval.
- 8) That the permittee is responsible for complying fully with NPDES permit provisions and submitting a permit renewal application 180 days prior to permit expiration.
- 9) That any deviations from approved plans or specifications affecting capacity, flow or operation of units must be approved by the Department before any such deviations are made in the construction of this project.
- 10) That any notations or changes recorded on the official approved set of plans and specifications in the Oklahoma Department of Environmental Quality files shall be a part of the plans as approved.
- 11) As-built plans of this project shall be placed on file with this Department within two months of the completion of the work or a certification by the engineer shall be submitted certifying that no changes have been made in the work as approved.
- 12) The issuance of this permit does not relieve the responsible parties of any obligations or liabilities which the permittee may be under pursuant to prior enforcement action taken by the Department.

Failure to appeal the conditions of this permit in writing within 30 days from the date of issue will constitute acceptance of the permit and all conditions and provisions.



Rocky Chen, P.E., Engineering Manager, Construction Permit Section
Water Quality Division

Q.R.K.



for Shellie R. Chard, Director
Water Quality Division

November 4, 2024

To: Chair and Board of Trustees, Glenpool Utility Services Authority (GUSA)
Mayor and Council, City of Glenpool

From: David Agbetunsin, City Engineer

Period: October 1 – October 31, 2024

WASTEWATER TREATMENT FACILITY PROJECT UPDATE

Wastewater Treatment Plant (WWTP)

The City of Glenpool has been awarded an American Rescue Plan Act (ARPA) grant for a new mechanical wastewater treatment facility (WWTF). The City currently owns and operates a Lagoon System Wastewater Treatment Plant. The proposed project involves constructing a 3.0 MGD Sequencing Batch Reactor (SBR) Mechanical Wastewater Treatment Plant (WWTP) located in the SW1/4, NW1/4 of Section 11, T17N, R12E, Tulsa County.

Project Program Management Summary

Consultant/Project Program Manager (PPM) – S2 Engineering PLLC	Cost to Date (\$)	Contact Amount (\$)	S2E Engineering PLLC
Task			Progress (%)
Project Administration	108,469.40	198,200.00	55%
Design Consultant Selection Phase	28,488.00	28,488.00	100%
Regulatory Approval/Permits	55,628.64	57,954.00	96%
Public Communication Phase	32,940.59	58,302.00	56%
Detailed Design Phase	101,390.00	101,390.00	100%
Bidding Phase	1,925.10	19,251.00	10%
Construction Phase	-	245,291.00	0%
Plant Startup	-	58,541.00	0%
New Site Property and Topographic	39,316.22	44,978.00	87%
Site Flood Plain Permitting NoRise	24,862.50	26,766.00	93%
Conditional Letter of Map Revisions (CLOMR), if	-	31,316.00	0%
Letter of Map Revisions (LOMR), if	-	34,024.00	0%
Environmental Information Document	35,858.91	42,662.00	84%
ARPA Grant Administration Coordination	6,850.00	52,604.00	13%
TOTAL	435,729.36	999,767.00	44%

Appendix 1 contains invoices corresponding to payments made so far. These invoices align with the agreement established on 05-01-2023 between S2 Engineering PLLC and Glenpool Utility Services for the provision of Project Program Management Services.

Professional Engineering Design

Garver LLC is rendering professional engineering services as per the agreement executed on August 7, 2023. The engineering design is presently underway, and Garver. The 100% set has been prepared by Garver LLC. The engineering drawings have been prepared to be submitted for ODEQ review and construction permit approval. Invoices pertaining to payments made in accordance with this agreement are provided in Appendix 2.

Engineer Consultant – Garver LLC	Cost to Date (\$)	Contact Amount (\$)	Garver LLC
Core Tasks			Progress (%)
Project Management & Admin	14,802.37	74,011.85	20%
Geotechnical Coordination	6,115.00	6,115.00	100%
Preliminary Design	927,669.00	927,669.00	100%
Final Design	1,238,962.54	1,238,962.54	100%
Bidding & Equipment Procurement Services	27,988.16	126,760.00	22%
Construction Administration	0.00	642,218.00	-
Construction Observation	0.00	665,258.40	-
O&M Manual And Startup Training	0.00	127,461.00	-
TOTAL	2,215,537.07	3,808,455.79	58%

Clean Water State Revolving Fund (CWSRF)

The Clean Water State Revolving Fund is a low-interest loan program that assists communities with wastewater and pollution control projects. Staff will apply for the Clean Water State Revolving Fund (CWSRF) to cover the excess project funds. City Management has applied for \$35,000,000.00 CWSRF. The application is currently under review by OWRB staff. An environmental review and public meeting are prerequisites for the loan approval. A copy of the draft Environmental Information Document (EID) is available at the City Engineer's office for viewing. OWRB has issued a Findings of No Significant Impact (FONSI) to all interested agencies and public groups for public comments supporting or contesting the consideration for financial assistance by OWRB. (FONSI document is attached).

Permit to Construct

City Staff have applied for a permit to construct. The 100% plan set, and construction documents were submitted to staff for review and comments. The final permit to construct was issued on October 21, 2024.

Bidding

On October 1, 2024, GUSA advertised for bids in Tulsa World papers. A copy of the advertisement for bid is attached to this report. Please recall that GUSA had advertised for prequalification of bidders, and only qualified bidders are permitted to bid, unless stated otherwise. Bids are due on November 12, 2024 at 2:00P.M.

Schedule

Below is the tentative schedule of the project.

Updated Phase Description Schedule Date		
Notice to Proceed	August 18, 2023	Complete
Technical Memoranda	October 19, 2023	Complete
Preliminary Design	January 11, 2024	Complete
Preliminary Design Workshop	January 30, 2024	Complete
Final Design – 90% and ODEQ Submittal	April 29, 2024	Complete
Final Design – 90% Workshop	May 17, 2024	Complete
Final Design – 100% Submittal	July 12, 2024,	Complete
Proposed Bid Opening	November 12 th 2024	Not Started
Finish Construction	December 2026	Not Started

Proposed Bidding schedule:

Prequalification Advertisement	June 14, 2024
Prequalification Meeting (Virtual	June 28, 2024
Prequalification Opening	July 25, 2024
Bidding Documents Advertised	July-August 2024
Notice of Prequalification to Bidders	July-August 2024
Invitation for Bids to Prequalified Bidders	October 1, 2024
Pre-Bid Conference (In-Person)	October 16, 2024,
Bid Opening	November 12 2024

Recommendation

This report is for information purposes only.

APPENDIX

Invoice

Date	Invoice #
10/22/2024	06-1227

Bill To
Mr. David Agbetunsin City Engineer, City Of Glenpool 12205 S. Yukon Ave. Glenpool, OK 74033

Service Start Date : May 1, 2023	
P.O. No.	
Period Ending	9/30/2024

GLENPOOL WASTEWATER TREATMENT FACILITIES
PROJECT PROGRAM MANAGEMENT SERVICES

Agreement Reference: GUSA / May 1, 2023

[illegible]

CORE TASKS FEE SUMMARY	
Core Tasks Lump Sum Fee	\$767,415.00
Billed To Date	\$328,841.73
Amount Remaining	\$438,573.27

Balance Due (This Invoice) \$23,440.87

Client Total Balance	\$23,440.87
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6100 S Yale Ave. Suite 1300
Tulsa, OK 74136

TEL 918.250.5922

www.GarverUSA.com

Progress Report Glenpool WWTP Improvements

To: Glenpool Utility Service Authority
From: Cole Niblett, PE
Copies to: Garver File 2300438
Period Ending: September 27, 2024

Please allow us to give a brief progress report of our work on the above referenced project.

Recent Accomplishments

- Address Comments from Final Design Workshop
- 100% Design Review Workshop
- Finalize Bid Set
- Prepare for Advertisement
- Monthly Progress Meetings

Need from Others

- None

Planned Assignments for Next Reporting Period

- Advertise Bid Set
- Pre-Bid Meeting
- Receive and Address Bidder's Questions



750 SW 24th Street Ste 200
Moore, OK 73160
405-329-2555

www.GarverUSA.com

INVOICE

David Agbetunsin
City of Glenpool, OK
12205 S Yukon Ave
Glenpool, OK 74033

October 3, 2024
Project No : 2300438
Invoice No: 2300438-11

Project: Glenpool Wastewater Treatment Facility Design

Professional Engineering Services through September 27, 2024

	Percent Complete	Contract Amount	Total Billed to Date	Previous Billings	Current Billing
Lump Sum Services					
Task 1 - Project Management & Admin	30%	\$74,011.85	\$22,203.56	\$22,203.56	\$0.00
Task 2 - Geotechnical Coordination	100%	\$6,115.00	\$6,115.00	\$6,115.00	\$0.00
Task 3 - Preliminary Design	100%	\$927,669.00	\$927,669.00	\$927,669.00	\$0.00
Task 4 - Final Design	100%	\$1,238,962.54	\$1,238,962.54	\$1,238,962.54	\$0.00
Hourly Services					
Bidding & Equipment Procurement Services		\$126,760.00	\$38,172.00	\$21,361.22	\$16,810.78
Construction Administration		\$642,218.00	\$0.00	\$0.00	\$0.00
Construction Observation		\$665,258.40	\$0.00	\$0.00	\$0.00
O&M Manual and Startup Training		\$127,461.00	\$0.00	\$0.00	\$0.00
Totals		\$3,808,455.79	\$2,233,122.10	\$2,216,311.32	\$16,810.78

Total Amount This Invoice \$16,810.78

Authorized by: _____

Cole Niblett PE
Project Manager

Remit Payment To:

For delivery via regular US postal service:

Garver, LLC
P.O. Box 736556
Dallas, TX 75373-6556

For delivery via overnight courier service:

JPMorgan Chase (TX1-0029)
Attn: Garver, LLC P.O. Box 736556
14800 Frye Road, 2nd Floor
Fort Worth, TX 76155

Attachment to Invoice: 2300438-11

October 3, 2024

Garver Project: 2300438

Glenpool Wastewater Treatment Facility Design

Period Ending:09/27/2024

Bidding & Equipment Procurement Services

Personnel	Hours	Pay Rate	Amount
Anderson, Grant	4.50	\$28.04	\$126.18
Brooks, Michaela	2.00	\$25.00	\$50.00
Edmonds, Gabriel	4.00	\$45.26	\$181.04
Helvick, Thomas	4.00	\$46.31	\$185.24
Newman, Rita	2.50	\$26.00	\$65.00
Niblett, Michael	8.50	\$72.12	\$613.02
Rakestraw, Amber	5.50	\$29.10	\$160.05
Ross, Benjamin	30.00	\$70.68	\$2,120.40
Shoemaker, Leona	14.50	\$36.94	\$535.63
Tate, Russell	7.00	\$87.27	\$610.89
Wiseman, Laura	13.00	\$42.32	\$550.16
Labor			\$5,197.61
Overhead at 194.03% of Labor			\$10,084.92
Profit at 10% of Labor and Overhead			\$1,528.25

Due This Invoice:

Bidding & Equipment Procurement Services **\$16,810.78**



October 21, 2024

Ms. Joyce Calvert, Mayor
Glenpool Utility Services Authority
12205 S Yukon Ave
Glenpool, Oklahoma 74033

Re: Permit No. ST000072240386
New Wastewater Treatment Plant to Serve the City of Glenpool
Facility No. S-20430

Dear Ms. Calvert:

Enclosed is Permit No. ST000072240386 for the construction of one (1) 3.0 million gallons per day (mgd) mechanical wastewater treatment plant that consists of a 7.5 mgd influent lift station, one (1) grit chamber, two (2) 6.0 mgd mechanical bar screens, three sequencing batch reactors with a volume of 1.18 million gallons, seven (7) 125-hp blowers, one (1) post flow equalization basin, two (2) aerobic digesters with a volume of 628,000 gallons each, two (2) UV disinfection system channels with three (3) UV banks, two (2) screw press dewatering systems, one (1) 6.0 mgd effluent lift station, converting the existing lagoon into a two (2) compartment flow equalization basin with a total volume of 12.0 million gallons, one (1) chlorination feed and storage system, one (1) dechlorination feed and storage system, one (1) polymer feed and storage system and all appurtenances to serve the City of Glenpool Tulsa County, Oklahoma.

The project authorized by this permit should be constructed in accordance with the plans approved by this Department on October 21, 2024. Any deviations from the approved plans and specifications affecting capacity, flow or operation of units must be approved, in writing, by the Department before changes are made. Receipt of this permit should be noted in the minutes of the next regular meeting of the Glenpool Utility Services Authority, after which it should be made a matter of permanent record.

Receipt of this permit should be noted in the minutes of the next regular meeting of the Glenpool Utility Services Authority, after which it should be made a matter of permanent record.

We are returning one (1) set of the approved plans to you, one set (1) to your engineer and retaining one (1) set for our files.

Respectfully,

Qusay Kabariti, P.E.
Construction Permit Section
Water Quality Division

QK/RC/md

c: Debbie Nichols, Regional Manager, DEQ
TULSA DEQ OFFICE
Russell D. Tate, P.E., Garver



PERMIT No. ST000072240386

SEWAGE TREATMENT

FACILITY No. S-20430

PERMIT TO CONSTRUCT

October 21, 2024

Pursuant to O.S. 27A 2-6-401, the Glenpool Utility Services Authority is hereby granted this Tier II Permit to construct one (1) 3.0 million gallons per day (mgd) mechanical wastewater treatment plant that consists of a 7.5 mgd influent lift station, one (1) grit chamber, two (2) 6.0 mgd mechanical bar screens, three sequencing batch reactors with a volume of 1.18 million gallons, seven (7) 125-hp blowers, one (1) post flow equalization basin, two (2) aerobic digesters with a volume of 628,000 gallons each, two (2) UV disinfection system channels with three (3) UV banks, two (2) screw press dewatering systems, one (1) 6.0 mgd effluent lift station, converting the existing lagoon into a two (2) compartment flow equalization basin with a total volume of 12.0 million gallons, one (1) chlorination feed and storage system, one (1) dechlorination feed and storage system, one (1) polymer feed and storage system and all appurtenances to serve the City of Glenpool, located in Section 11, T-17-N, R-12-E, Tulsa County, Oklahoma, in accordance with the plans approved on October 21, 2024.

By acceptance of this permit, the permittee agrees to operate and maintain the facility in accordance with the Discharge - OPDES (NPDES) rules OAC 252:606 and to comply with the State Certification laws, Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirements for certified operators.

This permit is issued subject to the following provisions and conditions.

- 1) That the recipient of the permit is responsible that the project receive supervision and inspection by competent and qualified personnel.
- 2) That construction of all phases of the project will be started within one year of the date of approval or the phases not under construction will be resubmitted for approval as a new project.
- 3) That no significant information necessary for a proper evaluation of the project has been omitted or no invalid information has been presented in applying for the permit.
- 4) That the Oklahoma Department of Environmental Quality shall be kept informed of occurrences which may affect the eventual performance of the works or that will unduly delay the progress of the project.
- 5) That the issuing of this permit does not relieve the responsible parties from any damage which may accrue as the result of the location and operation of the plant in this area.
- 6) That the recipient of the permit is responsible for the continued operation and maintenance of these facilities in accordance with the rules and regulations adopted by the Environmental Quality Board and that this Department will be notified in writing of any sale or transfer of ownership of the facilities.

Robert Singletary
Executive Director



OKLAHOMA
Environmental
Quality

Kevin Stitt
Governor

PERMIT No. ST000072240386

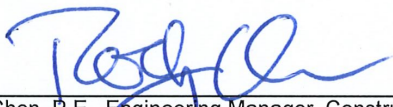
SEWAGE TREATMENT

FACILITY No. S-20430

PERMIT TO CONSTRUCT

- 7) That these facilities are approved for an average hydraulic loading of 3.0-mgd or an organic load of 5,000 pounds of BOD₅/day. Before additional loading is connected to the system, plans for suitable enlargement of the facilities shall be submitted to the Oklahoma Department of Environmental Quality for approval.
- 8) That the permittee is responsible for complying fully with NPDES permit provisions and submitting a permit renewal application 180 days prior to permit expiration.
- 9) That any deviations from approved plans or specifications affecting capacity, flow or operation of units must be approved by the Department before any such deviations are made in the construction of this project.
- 10) That any notations or changes recorded on the official approved set of plans and specifications in the Oklahoma Department of Environmental Quality files shall be a part of the plans as approved.
- 11) As-built plans of this project shall be placed on file with this Department within two months of the completion of the work or a certification by the engineer shall be submitted certifying that no changes have been made in the work as approved.
- 12) The issuance of this permit does not relieve the responsible parties of any obligations or liabilities which the permittee may be under pursuant to prior enforcement action taken by the Department.

Failure to appeal the conditions of this permit in writing within 30 days from the date of issue will constitute acceptance of the permit and all conditions and provisions.


Rocky Chen, P.E., Engineering Manager, Construction Permit Section
Water Quality Division

Q.R.K.


Shellie R. Chard, Director
Water Quality Division



OKLAHOMA

Water Resources Board

October 14, 2024

FINDING OF NO SIGNIFICANT IMPACT

TO ALL INTERESTED AGENCIES AND PUBLIC GROUPS

Pursuant to the Oklahoma Water Resources Board (OWRB) Regulations governing the use of the Clean Water State Revolving Fund (CWSRF), as amended through August 11, 2019, an environmental review has been performed on the project below:

The Glenpool Utility Services Authority
Tulsa County, Oklahoma
CWSRF Wastewater Project No. ORF-23-0055-CW
OWRB CWSRF Loan Amount: \$35,000,000.00
Proposed Projects Amount: \$35,000,000.00

Glenpool, a Tulsa suburb, is located east of the junction of West 141st Street and U.S. Highway 75 in the southwestern quadrant of Tulsa County. The City's 2010 Census population was estimated at 10,935 and currently is reporting 13,691 residents. The population is anticipated to increase to 26,017 residents by 2046.

The Glenpool Utility Services Authority (GUSA) has 4,560 sewer connections and an aerated lagoon process in a single lagoon basin separated into three cells by curtain baffles. The sources of wastewater are predominantly residential and light commercial in nature with insignificant industrial flow. This system was originally constructed in the 1980s with major modifications in 1998 and in 2012. In 1998, a diffused aeration was added to Cell #1 and the discharge was moved from Coal Creek to the Arkansas River to meet the water quality standards. In 2012, a new disinfection system was added to comply with fecal limit requirements in the new OPDES permit.

GUSAs WWTP serves 4,668 sewer connections. It is designed to treat an average daily flow of 3.0 million gallons per day (mgd) and discharges treated wastewater into the Arkansas River (Segment Number 120420), under the National Pollutant Discharge Elimination System (NPDES) permit number OK0027138. The WWTP is under a consent order (CO # 19-289) for NPDES Permit violations.

The purpose of the project is to make improvements that are necessary to meet the Oklahoma Department of Environmental Quality (ODEQ) Consent Order (CO) No. 19-289 mandate. The existing wastewater treatment is under DEQ consent order for permit discharge limit violations. The existing aerated lagoon treatment system will require improvements to remedy the violations cited in the consent order. Further, the current permit capacity of 1.44 MGD will need expansion to meet Glenpool's projected growth and wastewater treatment needs.

The proposed project is proposing to replace the existing aerated lagoon system with a new Sequencing Batch Reactor (SBR) activated sludge process consisting of a grinder, screening augur station, influent pump station, headwork grit removal facility, lagoon sludge removal and disposal. The existing lagoon will be repurposed as a wet weather holding basin.

To fund the proposed the City of Glenpool Wastewater Treatment Plant through The Glenpool Utility Services Authority, received a low-interest loan from the Clean Water State Revolving Fund (CWSRF) for the total estimated project cost of \$35,000,000. Total project costs include construction costs, engineering costs, legal costs and contingency.

The Environmental Assessment (EA) enclosed indicates the proposed project should not result in any significant adverse impacts to the area's environmental quality. After review of the project by state and federal agencies, as described in the EA, any CWSRF loan for this project shall be conditional to read as follows:

If any threatened or endangered plant or animal species or archeological materials are discovered during construction, work will cease immediately and the OWRB will be notified so that they may proceed in accordance with the Endangered Species Act of 1973, as amended, and the regulations of the Advisory Council on Historic Preservation Act (36 CFR, Part 800).

A public hearing on the proposed project was held on August 27, 2024, to discuss the project alternatives, costs, environmental impacts, and coordination of review by federal and state agencies. No public controversy was brought forth during the public meeting and no significant adverse comments concerning impacts on human health and the environment were received during or following the hearing.

A decision has been made not to conduct further impact analysis or prepare an Environmental Impact Statement. This decision is subject to conditions described in the EA, and to possible revocation or amendment, if subsequent information is presented which shows the project will result in serious adverse environmental impacts or will create significant public controversy. No action regarding approval of the facility's plan or the provision of financial assistance will be taken by the Board for at least thirty (30) days after the issuance of this Finding of No Significant Impact.

Comments supporting or contesting this decision may be submitted for consideration to the Financial Assistance Division, Oklahoma Water Resource Board, 3800 North Classen Boulevard, Oklahoma City, Oklahoma 73118.

Issued by,



Lindy Clay, Environmental Programs Manager
Financial Assistance Division



OKLAHOMA

Water Resources Board

October 14, 2024

**Environmental Assessment
for the
The Glenpool Utility Services Authority
Tulsa County, Oklahoma
CWSRF Wastewater Project No. ORF-23-0055-CW
OWRB CWSRF Loan Amount: \$35,000,000.00
Estimated Project Cost: \$35,000,000.00**

BACKGROUND AND EXISTING CONDITIONS

Glenpool, a Tulsa suburb, is located east of the junction of West 141st Street and U.S. Highway 75 in the southwestern quadrant of Tulsa County. Noted for its location near and its identity with one of the world's largest oil fields, Glenpool had its start after the Glenn Pool oil strike in 1905. Wildcatter Robert Galbreath arrived in Redfork, Indian Territory, on June 28, 1901. By 1902 he had procured a lease near the Sue A. Bland well. While working in the Red Fork fields, he believed that there was a larger field to be tapped further south. In summer 1901 he met with Robert Glenn and noted a limestone ridge that was soaked in oil. Galbreath was convinced of the field's potential. On April 22, 1905, he procured a lease from Robert and Ida E. Glenn for 160 acres. By October 1905 drilling was underway, and on November 22, 1905, they struck oil at a depth of 1,481 feet. The Glenn Pool Field was one of the largest oil finds in the Southwest.

By 1906 twelve families clustered in a settlement originally called Glenn. That year the Midland Valley Railroad constructed a line between the settlement and Jenks in order to transport the oil to outside markets. By 1907 the area's population had grown to approximately three thousand. In 1907 R. J. and Pearl Barber Stewart deeded approximately forty acres of land near the present intersection of U.S. Highway 75 and West 141st Street to F. Markle and M. T. Self. They platted the first lots and on January 31, 1908, renamed the town Glenpool. A post office was also established on that date. John Burt, Sr., from Oklahoma City, purchased the remainder of the allotment and the majority of the platted lots that formed the original townsite.

By 1908, Glenpool's first school enrolled two hundred fifty children in the newly formed district. It had the distinction of being Oklahoma's richest school district. By 1909–10 the city had an estimated five hundred inhabitants. Early-day businesses included the Rumrill State Bank, the Ridgeway Hotel, telephone and telegraph providers, restaurants, stores, and other businesses. In 1916 the Midland Valley Railroad extended its line from Glenpool to Kiefer, another shipping point. Rail service from Glenpool to Jenks and Kiefer was abandoned on February 12, 1936.

In 1920, the first federal census for Glenpool reported 428 individuals. Population declined until 1960. Thus, the 1930, 1940, and 1950 censuses indicated 310, 284, and 280 persons, respectively.

Despite this drop in population Glenpool continued to have ties to the oil industry. However, by 1932 Tidal Oil Company and Moon Gas Company were the only major oil businesses listed in an Oklahoma Department of Labor directory.

After World War II, building booms occurred in the 1950s and the 1970s. Glenpool's population rose to 353 in 1960. In 1970, numbers had more than doubled to 770. By 1980, the 1970s oil boom had pushed the population to 2,706, more than tripling the 1970 figure. Glenpool has continued to grow, and in 1990 the population hit 6,688. In 2000 the city boasted 8,123 inhabitants. Major employers included Champagne Metals and the Glenpool School District. Except for Glenpool's small retailers, restaurants, and service providers, Tulsa businesses provided the majority of the employment base for Glenpool's workers. On November 22, 2005, Glenpool celebrated the centennial of the Glenn Pool discovery. The city annually holds a Black Gold Days festival, with arts and crafts, concerts, a carnival, a parade, and other events. At the beginning of the twenty-first century Glenpool maintained a council-manager form of town government. By 2010, the town had grown to 10,808 inhabitants. In April 2020, the census reported 13,691.

The Glenpool Utility Services Authority (GUSA) has 4,560 sewer connections and an aerated lagoon process in a single lagoon basin separated into three cells by curtain baffles. The sources of wastewater are predominantly residential and light commercial in nature with insignificant industrial flow. This system was originally constructed in the 1980s with major modifications in 1998 and in 2012. In 1998, a diffused aeration was added to Cell #1 and the discharge was moved from Coal Creek to the Arkansas River to meet the water quality standards. In 2012, a new disinfection system was added to comply with fecal limit requirements in the new OPDES permit.

GUSAs WWTP serves 4,668 sewer connections. It is designed to treat an average daily flow of 3.0 million gallons per day (mgd) and discharges treated wastewater into the Arkansas River (Segment Number 120420), under the National Pollutant Discharge Elimination System (NPDES) permit number OK0027138. The WWTP is under a consent order (CO # 19-289) for NPDES Permit violations.

PROJECT DESCRIPTION

GUSA is proposing to replace the existing aerated lagoon system with a new Sequencing Batch Reactor (SBR) activated sludge process consisting of a grinder, screening augur station, influent pump station, headwork grit removal facility, lagoon sludge removal and disposal. The existing lagoon will be repurposed as a wet weather holding basin. See Figure 1 for the map of the proposed project.



Figure 1: Project Location

AFFORDABILITY

To fund the proposed project, the The Glenpool Utility Services Authority, has applied for a \$35,000,000.00 low-interest loan from the Clean Water State Revolving Fund (CWSRF). Total loan cost includes construction costs, as well as legal costs, closing costs, and contingency.

The loan will be retired through traditional methods such as pledging municipal water, wastewater, sanitation, or other City revenues. Prior to loan approval, the OWRB is required to perform a financial analysis to determine the City's capability to repay the loan. It has been determined the City does meet CWSRF program financing requirements.

ALTERNATIVES

Alternatives to the proposed project were reviewed and ranked based on environmental effects, monetary costs, public acceptability, resources and energy use, reliability and lowest costs without over-riding adverse factors. Alternative Number (No.) 4 was presented as the preferred alternative.

Alternative No. 1 – Rehabilitating of Existing Aerated Lagoon

This alternative will not provide the necessary capacity or water quality improvements to meet the discharge permit limits and ODEQ regulations do not allow aerated lagoon system for capacity increase. This alternative was rejected.

Alternative No. 2 – Attached Growth Process (MBBR/IFAS/MBR)

This alternative would be to complex with the technology, the level of technology was not necessary and the lack of design guidelines and the potential need for ODEQ variance approval. This alternative was rejected.

Alternative No. 3 – No Action

This alternative will leave the existing plant at its current condition and operation. The plant flows and treatment capacities are insufficient to meet project needs and objectives. This alternative was rejected.

Alternative No. 4 – Sequencing Batch Reactor (SBR)

This alternative has a compact footprint, it is highly flexible for capacity expansion, it provides a more effective treatment and energy saving, and staff is also familiar with this type of treatment and it is more cost efficient. This alternative was the selected alternative.

Alternative No. 5 – Extended Aeration-Oxidation Ditch Process

This alternative is highly flexible for capacity expansion and future stringent effluent requirements. It would require more land outside of the footprint and has a higher cost to operate and will require more land with expansion. This alternative was rejected.

ENVIRONMENTAL SETTING AND PROJECT IMPACTS

According to the environmental information documentation (EID) provided for this project (summarized below), the following environmental conditions exist and outlined mitigative procedures will be followed to ensure protection of human health and environmental resources potentially affected by the project.

Improvements will be constructed as described in the “PROJECT DESCRIPTION” section of this Assessment. The proposed project area occurs in Tulsa County, Oklahoma as described in the “Background and Existing Conditions” and “Project Description” sections of this Assessment. A map of the proposed is shown in Figure 1.

The four soil types in the AOI are Dennis silt loam with 1 to 3 percent slope and is rated as prime farmland; Dennis silt loam with 3 to 5 percent slope and is rated not prime farmland; Dennis-Radley complex with 0 to 12 percent slope is rated not prime farmland; Radley silt loam with 0 to 1 percent slope is rated not prime farmland; and Wynona silty clay loam with 0 to 1 percent slope is rated not prime farmland.

According to the City and various “reviewing agencies,” no wetlands, scenic rivers, wilderness areas, Native American Lands, sole-source aquifers, areas of geologic hazard, or archeological sites will be adversely affected within the project area.

According to FEMA Flood Insurance Rate Maps, most of Glenpool is characterized as Zone AE indicating the 100-year floodplain with minimal flood risk. However, the floodway will not be encroached on, but there will be changes in the floodplain. The volume of fill placed within the floodplain will be mitigated by onsite compensatory storage added within the floodplain on the project site. As part of this action, a no rise certificate will be obtained through the local floodplain administrator and Federal Emergency Management Agency (FEMA).

There is one wetland that will have mitigation with the oversight of the U.S. Army Corps of Engineers (USACE). A wetland delineation was performed to determine if there were any jurisdictional aquatic resources existing in the project area. The USACE issued a jurisdictional determination (JD) for wetland FS-2. Based on the development plans for the WWTP, wetland FS-2, will be filled which will require a permit. The City of Glenpool will mitigate this impact by purchasing offsite credits or other mitigation efforts approved by USACE. The City signed a Permittee Construction Schedule (PCS) on 7/8/2024 where they agree to abide by the Nationwide Permit 39 from the USACE. They also purchased their offsite wetland credits from an email from Hoffman Environmental, Inc. on 6/11/2024.

Any changes in air quality, transportation, and noise resulting from the construction of the proposed project are temporary in nature and are anticipated to return to existing levels. The majority of construction will occur during daylight hours and no long-term impacts are anticipated. Impacts will be minimized through the project specifications, which will require mitigative measures to reduce the overall effect of each impact, requiring the contractor to comply with all federal, state, and local ordinances and regulations that affect the conduct of work. No long-term effects on water quality or air quality are anticipated.

The proposed project is consistent with planning requirements found in Sections 208 and 303(e) of the Clean Water Act and is anticipated to meet the 208 Water Quality Management Plan (WQMP). All applicable City and Oklahoma Department of Environmental Quality (ODEQ) standards will be

met. The proposed action will have no significant adverse impacts to the existing system or environment.

SOCIOECONOMIC AND ENVIRONMENTAL JUSTICE

The project was reviewed to ensure that construction will be conducted in an appropriate manner so that all persons and populations are served equally by the infrastructure improvements. Based upon information presented in the EID and results of an evaluation to rank the potential environmental impacts to local communities using a computer-assisted mathematical formula, including Geographical Information System maps and census demographic data, no persons or populations will be discriminated against or denied the benefits of the proposed project. Since all persons and populations will be served equally by the project, there will be no adverse impacts that are considered disproportionate to any particular portion of the population.

A description of the Environmental Justice (EJ) analysis and results are shown in Exhibits 1-4.

COORDINATION OF REVIEW

Coordination of review requirements was completed and responses from reviewing agencies are summarized below:

In a letter dated January 27, 2023, the **US Army Corps of Engineers (USACE), Regulatory Branch** stated, “We have reviewed the submitted data relative to Section 404 of the Clean Water Act (CWA).concluded that the referenced property contains.....jurisdictional streams and wetlands have a significant nexus to the Arkansas River.”

In a letter dated May 31, 2024, the **US Army Corps of Engineers (USACE), Regulatory Branch** stated, “The proposed placement of fill material, FS-2, associated with the proposed project falls within the scope of Nationwide Permit 39 (NWP).... If you accept the obligations of the NWP, sign and return the permittee construction schedule (PCS).”

In a letter dated August 2, 2024, the **City of Glenpool Floodplain Administrator** stated, “The proposed project meets these criteria and is approved.”

In a letter dated June 15, 2023, the **National Resources Conservation Service (NRCS)** stated, “we have determined that this project is in an area classified as urban according to the U.S. Census Bureau. Because of this, this project is exempt from a prime farmland conversion impact rating.....this project will have no significant environmental impacts of concern to any NRCS easements or watershed structures.”

In an email dated June 19, 2024, the **Oklahoma Department of Environmental Quality (ODEQ)** stated, “ No anticipated adverse environmental impacts under DEQ jurisdiction.”

In a letter dated June 6, 2023, the **Indian Nations Council of Governments (INCOG)**, has not responded to the initiation of consultation letter.

In a letter dated June 12, 2023, the **Oklahoma Archeological Survey (OAS)** commented, “No sites are listed in your project area but based on topographic and hydrologic setting of your project, archeological materials are likely to be encountered. An archeological field inspection is considered necessary prior to project construction to identify significant archeological resources that may exist in the project area.”

In a letter dated August 21, 2024, the **Oklahoma Archeological Survey (OAS)** commented, “We concur with the findings and recommendations as they pertain to prehistoric archaeological resources and defer opinion on the overall project effects to the State Historic Preservation Office.”

In a letter dated June 21, 2023, the **Oklahoma Historical Society (OHS)** stated, “The State Historic Preservation Office reviews only federal undertakings.....Your request does not identify the referenced project as a federal undertaking.....we must be certain that we are commenting on projects that are actually subject to our review under Section 106 and that we are consulting with a federal agency or authorized designee.”

In a letter dated July 24, 2024, the **Oklahoma Historical Society (OHS)** stated, “We find that there are no known historic properties affected within the referenced project’s area of potential effect.”

In a letter dated June 14, 2024, the **Osage Nation** Historic Preservation Office stated, “....most likely will not adversely affect any sacred properties and/or properties of cultural significance to the Osage Nation.”

In a letter dated July 10, 2023, the Cherokee **Nation** Historic Preservation Office stated, “.....and found no instances where this project intersects or adjoins such resources. Thus, the Nation does not foresee this project impacting impacts to Cherokee cultural resources at this time.”

In an email dated June 11, 2024, the **Hoffman Environmental, Inc.** stated, “....the City of Glenpool has purchased the required compensatory mitigation from Honey Springs Mitigation Bank consisting of 0.6 forested wetland credits for impacts to waters of the US, including wetlands, associated with construction of the City of Glenpool Wastewater Treatment Facility Improvement Project (SWT-2002-00662) located in Tulsa County, Oklahoma.”

PUBLIC PARTICIPATION DOCUMENTATION AND RESPONSIVENESS SUMMARY

A Notice of Public Hearing was first published on August 27, 2024 in the *Tulsa World*. The hearing was held at 10:00 am on September 27, 2024 in Glenpool City Hall. The purpose of the hearing was to discuss the proposed improvements to the Authority’s wastewater treatment facilities, alternatives to the proposed improvements, their associated costs, and potential environmental impacts. According to the sign-in sheet and the meeting minutes, the City’s consulting engineer, environmental consultants, and City employees were present for the hearing. There were two attendees from the public where there were some questions asked. There were no adverse comments concerning the project received during or following the hearing. Below are the questions and answers from the hearing.

Q. “The drain pipe is not big enough.”

A. The lady is referring to the storm drain that went to the pond. The City is putting two 30 in. pipes for drainage where they had only one 18 in there in the beginning. It would drain much faster with the two side by side pipes. She stated that answered her question.

Q. “Is there anyway, can you dig the silt out of the creek to where it allows for the overflow the more water coming in as it goes through?”

A. I don’t know. I think in the future as a separate maintenance piece the city can look at maintenance activities for in the future if needed. The city is not changing any drainage areas or patterns, there should not be any significant impacts from the project. They have checked to make sure that it is built above the BFE and factored that into the design.

- Q. "So the fences are up, but we don't know when they are going in, (around the WWTP)?"
A. That will be later in the project, the contractor will be responsible for maintaining the site while he's there working. As for the schedule, it's going to start January and take 2-3 years. Shooting for completion date December 2026.
- Q. "Who were the pre approved contractors, are you going to open that back up to anyone?" A.
As of right now, that is not the plan. Right now it's Wynn, Archer, Western and Crossing.
- Q. "What's that buffer zone all about?"
A. Any treatment plat improvement has to be 100 feet from the fence line. It's a DEQ regulation that all treatment process must be 100 feet away from the fence line.
- Q. "This I guess will be the back up storage to the creek?"
A. Yes.

Glenpool Utility Services Authority passed a resolution adopting the Planning and Environmental Information Documents for the Wastewater Treatment Plant Improvements project on October 7, 2024.

RECOMMENDATIONS

Based on information presented in the referenced documents, and the discussions recorded at the public hearing, it is recommended that a preliminary Finding of No Significant Impact (FNSI) be issued, subject to revocation or amendment if subsequent information is presented which shows these actions: (a) are not cost effective; (b) no longer meet CWSRF program regulations; (c) will not meet construction permit standards; or, (d) will result in significant public controversy or economic hardship.

REFERENCES

S2 Engineering. Engineering Report Wastewater Treatment Plant City of Glenpool, Oklahoma. December 2020 (Updated September 2023).

S2 Engineering. Supplemental Information to the Engineering Report Wastewater Treatment Plant City of Glenpool, Oklahoma. June 2024

S2 Engineering PLLC and Blackshare Environmental Solutions. Environmental Information Document for Glenpool Utility Services Authority, City of Glenpool, OK. June 2024: 1-433.

Glenpool. March 2024.

<https://www.okhistory.org/publications/enc/entry?entry=GL008>

EJScreen Report (Version 2.11)



1 mile Ring around the Corridor, OKLAHOMA, EPA Region 6

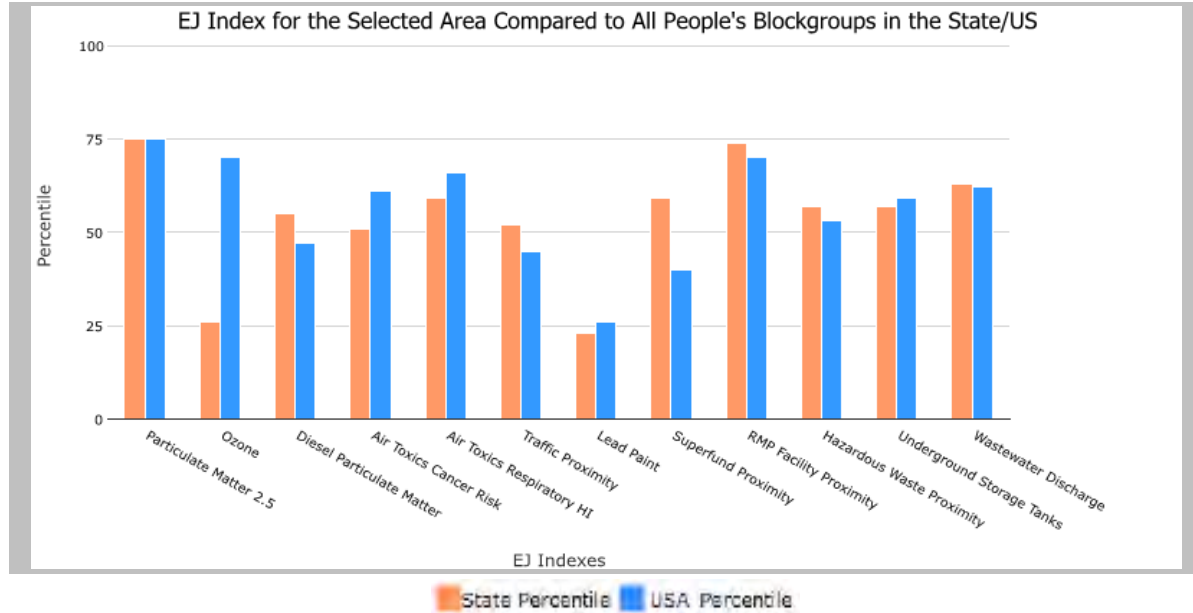
Approximate Population: 7,827

Input Area (sq. miles): 4.00

Glenpool Wastewater Treatment Plant Expansion

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	75	75
Ozone EJ index	26	70
Diesel Particulate Matter EJ index*	55	47
Air Toxics Cancer Risk EJ index*	51	61
Air Toxics Respiratory HI EJ index*	59	66
Traffic Proximity EJ index	52	45
Lead Paint EJ index	23	26
Superfund Proximity EJ index	59	40
RMP Facility Proximity EJ index	74	70
Hazardous Waste Proximity EJ index	57	53
Underground Storage Tanks EJ index	57	59
Wastewater Discharge EJ index	63	62

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



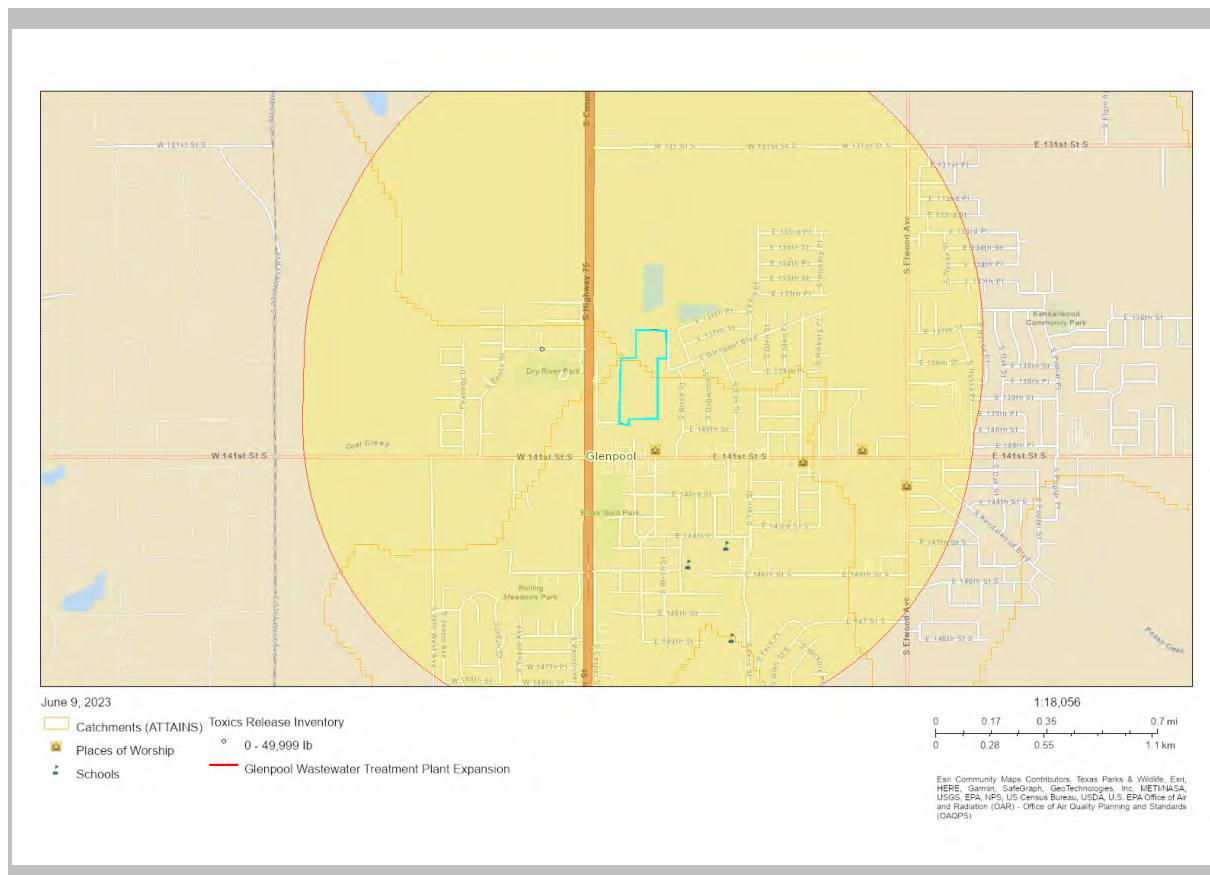
*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

1 mile Ring around the Corridor, OKLAHOMA, EPA Region 6

Approximate Population: 7,827

Input Area (sq. miles): 4.00

Glenpool Wastewater Treatment Plant Expansion



Sites reporting to EPA

Superfund NPL

0

Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)

1



EJScreen Report (Version 2.11)



1 mile Ring around the Corridor, OKLAHOMA, EPA Region 6

Approximate Population: 7,827

Input Area (sq. miles): 4.00

Glenpool Wastewater Treatment Plant Expansion

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	10.4	9.64	82	8.67	88
Ozone (ppb)	44	46	19	42.5	67
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.175	0.201	47	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	30	29	88	28	80-90th
Air Toxics Respiratory HI*	0.45	0.39	89	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	200	250	74	760	46
Lead Paint (% Pre-1960 Housing)	0.031	0.23	23	0.27	21
Superfund Proximity (site count/km distance)	0.027	0.047	55	0.13	26
RMP Facility Proximity (facility count/km distance)	1.3	0.59	86	0.77	80
Hazardous Waste Proximity (facility count/km distance)	0.5	0.87	53	2.2	44
Underground Storage Tanks (count/km ²)	1.5	1.7	62	3.9	54
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.11	0.088	94	12	85
Socioeconomic Indicators					
Demographic Index	31%	36%	43	35%	53
Supplemental Demographic Index	13%	16%	38	15%	51
People of Color	33%	35%	54	40%	53
Low Income	29%	36%	37	30%	52
Unemployment Rate	3%	5%	37	5%	39
Limited English Speaking Households	2%	2%	75	5%	63
Less Than High School Education	10%	11%	51	12%	57
Under Age 5	9%	7%	78	6%	80
Over Age 64	7%	16%	16	16%	15
Low Life Expectancy	21%	22%	43	20%	70

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

June 09, 2023

3/4

1 mile Ring around the Corridor, OKLAHOMA, EPA Region 6

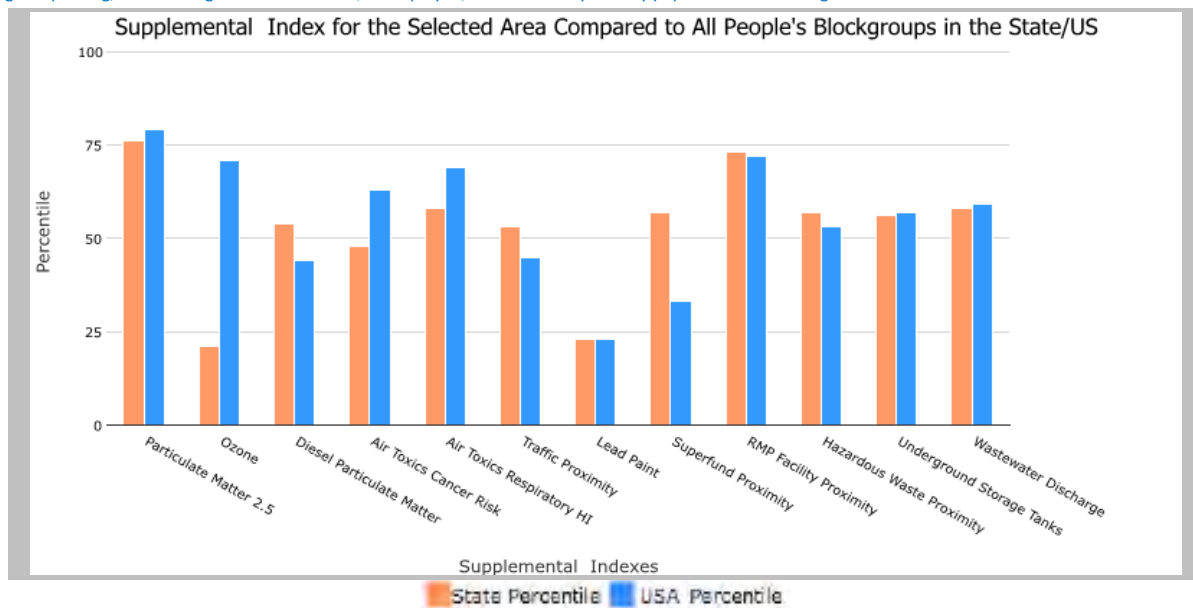
Approximate Population: 7,827

Input Area (sq. miles): 4.00

Glenpool Wastewater Treatment Plant Expansion

Selected Variables	State Percentile	USA Percentile
Supplemental Indexes		
Particulate Matter 2.5 Supplemental Index	76	79
Ozone Supplemental Index	21	71
Diesel Particulate Matter Supplemental Index*	54	44
Air Toxics Cancer Risk Supplemental Index*	48	63
Air Toxics Respiratory HI Supplemental Index*	58	69
Traffic Proximity Supplemental Index	53	45
Lead Paint Supplemental Index	23	23
Superfund Proximity Supplemental Index	57	33
RMP Facility Proximity Supplemental Index	73	72
Hazardous Waste Proximity Supplemental Index	57	53
Underground Storage Tanks Supplemental Index	56	57
Wastewater Discharge Supplemental Index	58	59

Supplemental Indexes - The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on low-income, limited English speaking, less than high school education, unemployed, and low life expectancy populations with a single environmental indicator.



This report shows the values for environmental and demographic indicators, EJScreen indexes, and supplemental indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. For additional information, see: www.epa.gov/environmentaljustice.