

**ACKNOWLEDGEMENT OF RECEIPT OF NOTICE OF MEETING
OF THE MAYOR AND CITY COUNCIL OF
THE CITY OF DAVID CITY, NEBRASKA**

The undersigned members of the governing body of the City of David City, Nebraska, hereby acknowledge receipt of advance notice of a regular meeting of said body and the agenda for such meeting to be held at 7:00 o'clock p.m. on the **24th day of June**, in the **meeting room of the City Office, 490 "E" Street, David City, Nebraska**. The Mayor and City Council reserve the right to enter into a closed session at any time during the meeting, in accordance with the Nebraska Open Meetings Act, even though the closed session may not be stated on the agenda.

This agenda for public inspection is available on our website at www.davidcityne.com and may be modified up to twenty-four hours prior to the opening of the meeting.

Dated this .

AGENDA AS FOLLOWS:

1. Roll Call;
2. Pledge of Allegiance;
3. Inform the Public about the location of the Open Meetings Act and the Citizens Participation Rules;
4. Minutes of the June 10, 2026 meeting of the Mayor and City Council;
5. City's ability to conduct operations;
6. Update from Trevin Jahde about fundraising for Boy Scout Eagle Project of fixing the shed at the David City Ball Fields;
7. Consider the "2025 Water Treatment Plant Backwash Forcemain' project letter of recommendations, including bid tab results;*
8. Consider the '2026 Electrical Distribution Improvements' project letter of recommendation, including bid tab results;*
9. Discuss/Consider changing companies for RO Water Plant Chemicals to Garratt Callahan;*
10. Consider Rental Agreements with David City High School for Softball, Auditorium, Football Fields, and Track Rental;*
11. Consider Rental Agreements with Aquinas Catholic Schools for Auditorium, Football Fields and Track Rental;*
12. Consider closed session for personnel, contracts, or pending litigation (as necessary);
13. Adjourn;

Mayor Jessica J. Miller

Council President Bruce L. Meysenburg

Council Member Jeremy W. Abel

Council Member James L. Angell

Council Member Rick L. Holland

Council Member Kevin E. Woita

Council Member Keith A. Marvin

City Clerk – Treasurer Lori M. Matchett

CITY COUNCIL PROCEEDINGS

June 10, 2026

The City Council of the City of David City, Nebraska, met in open public session at 7:00 p.m. in the meeting room of the City Office, 490 E Street, David City, Nebraska. The Public had been advised of the meeting by posting in four places (City Office, U.S. Post Office, Butler County Courthouse, and Hruska Public Library). The Mayor and members of the City Council acknowledged advance notice of the meeting by signing the Agenda, which is a part of these minutes. The advance notice to the Public, Mayor, and Council members conveyed the availability of the agenda, which was kept continuously current in the office of the City Clerk and was available for public inspection on the City's website. No new items were added to the agenda during the twenty-four hours immediately prior to the opening of the Council meeting.

Present for the meeting were: Mayor Jessica Miller, Council President Bruce Meysenburg, Council Members Jeremy Abel, Jim Angell, Rick Holland, Keith Marvin, City Administrator Intern Raiko Martinez, and City Clerk-Treasurer Lori Matchett. City Attorney David Levy attended via Zoom. Council Member Kevin Woita and City Administrator Alan Zavodny were absent.

Also present for the meeting were: Jerrold Brott of AG Processing, Kyle Eller, Trent Jakub, Marlene Hein, Doug Rix, Dana Trowbridge, Beth Klosterman, Deb Kobus, Wesley Miller, Park Employee Nathan Styskal, Water/Wastewater Operator Charles Klement, Wastewater Supervisor Josh Human, Account Clerk Elizabeth Parker, and Officer Kevin Dunn. Sarah Nguyen from JEO Consulting Group attended via Zoom.

The meeting opened with the Pledge of Allegiance.

Mayor Jessica Miller informed the public of the "Open Meetings Act" posted on the west wall of the meeting room and asked those present to silence their cell phones. Mayor Miller read the Citizen Participation Rules for the City Council Meeting. She also reminded the public that if they speak tonight before the Council, they must state their name and address for the record.

Council Member Rick Holland made a motion to approve the minutes of the May 27, 2026, meeting of the Mayor and City Council as presented. Council Member Jim Angell seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Council Member Jeremy Abel made a motion to approve claims as presented. Council Member Rick Holland seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1

Council President Bruce Meysenburg gave an update on the Butler County Development Board and Community for Kids.

Presented Nathan Styskal with a certificate of appreciation for 10 years of service.

The City of David City recently received awards. The Nebraska Planning and Zoning Association presented the City of David City with the Spotlight Community Award. David City also received awards for the 2026 Merit Award for the Road 37 Infrastructure Improvements and the 2026 Honor Award for the David City Water Treatment Plant Upgrade.

Mayor Jessica Miller also introduced new employee Charles Klement to the Council. Charles Klement works for our Water and Wastewater Departments as an operator. New employees, Connor McReynolds and Alex Zoucha, were not present at the meeting.

Council President Bruce Meysenburg informed the public that the Treasurer's Report and Financial Report are now being included in the Committee and Officer Reports.

Council Member Rick Holland made a motion to accept the committee and officer reports and Butler County Development Board updates. Council Member Jim Angell seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Mayor Jessica Miller gave an update on the Veterans' Memorial Park. The Veterans' Memorial Park will be a Creative District project and will also be funded by tourism grants. The building will be remodeled to house a meeting room for veterans and also pay tribute to the past, current, and future veterans of David City. Dillon Kreuger will be starting the mural on the building in the next few weeks. The mural design was approved by the area veterans.

Council Member Jim Angell made a motion to table the update from Trevin Jahde about fundraising for the Boy Scout Eagle Project at the David City Ball Fields. Council Member Keith Marvin seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Mayor Jessica Miller addressed social media posts that have appeared on Facebook and other platforms accusing the Mayor, Council President Meysenburg, City Administrator Zavodny, and others of financial mismanagement and corruption. Mayor Miller stated that the allegations are false and have negatively impacted City operations, public confidence, and the City's ability to obtain favorable bond financing. She acknowledged that, as an elected official, she is subject to public criticism and that individuals have the right to express their opinions but emphasized the importance of relying on factual information and public records.

Mayor Miller referenced a statement made by former Mayor Dana "Skip" Trowbridge supporting "an unbiased third-party investigation by capable, non-politically influenced professionals," and expressed her agreement with that position.

Mayor Miller asked the Council to consider having the City Attorney prepare a resolution for consideration at the June 24, 2026, council meeting, authorizing the solicitation of three proposals for an independent third-party investigation. The Council would then have the opportunity to review the proposals, consider the associated costs to taxpayers, and determine whether to proceed. Mayor Miller stated that an independent investigation would promote transparency and provide the public with an objective review of the allegations.

Council President Bruce Meysenburg cited examples of what he described as inaccurate information circulating on social media. He referenced a post alleging that the City borrowed approximately \$2.5 million from Nebraska Bank without council approval and stated that the allegation was false. Council President Meysenburg noted that the borrowing was authorized through Ordinance No. 1474 during an open public meeting, that it was a bridge loan, and that the loan has since been repaid.

Council President Meysenburg also addressed comments regarding park mowing expenses, stating that the discussion on social media did not include the full context. He explained that the City did not replace a retired employee, resulting in personnel savings, and that additional savings were realized through reduced fuel, equipment, and maintenance costs.

Mayor Jessica Miller then returned the discussion to the proposal for an independent third-party investigation and asked whether council members would support placing a resolution on the June 24, 2026, agenda to consider obtaining proposals for such an investigation. A council member expressed support for moving forward with the discussion.

Council Member Keith Marvin made a motion to approve Resolution No. 8-2026 approving the Butler County Parade Committee's request for the parade to cross Highway 15 on "L" Street on Sunday, July 19, 2026, in accordance with LB589. Council Member Rick Holland seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

RESOLUTION NO. 8-2026

WHEREAS, the Butler County Fair's Annual parade is scheduled for July 19, 2026, and

WHEREAS, the Butler County Parade Committee has designated 2:00 p.m. to 7 p.m. to allow for set-up and clean-up, with the parade beginning at 5:00 p.m., and

WHEREAS, the Butler County Parade Committee has requested that Highway 15, at the intersection of "L" Street and Highway 15, be closed so the parade can cross Highway 15,

WHEREAS, the Mayor and Council acknowledge Revised Statutes Chapter 39-1359, Rights-of-way; inviolate for state and Department of Roads purposes; temporary use for special events; conditions; notice; Political Subdivisions Tort Claims Act; applicable, which states:

- (1) The rights-of-way acquired by the department shall be held inviolate for state highway and departmental purposes, and no physical or functional encroachments, structures, or uses shall be permitted within such right-of-way limits, except by written consent of the department or as otherwise provided in subsections (2) and (3) of this section.
- (2) A temporary use of the state highway system, other than a freeway, by a city, including full and partial lane closures, shall be allowed for special events, as designated by a city, under the following conditions:
 - (a) The roadway is located within the official corporate limits or zoning jurisdiction of the city;
 - (b) A city making use of the state highway system for a special event shall have the legal duty to protect the highway property from any damage that may occur arising out of the special event and the state shall not have any such duty during the time the city is in control of the property as specified in the notice provided pursuant to subsection (3) of this section, and
 - (c) Any existing statutory or common law duty of the state to protect the public from damage, injury, or death shall become the duty of the city making use of the state highway system for the special event, and the state shall not have such statutory or common law duty during the time the city is in control of the property as specified in the notice provided pursuant to subsection (3) of this section, and
 - (d) The city using the state highway system for a special event shall formally, by official governing body action, acknowledge that it accepts the duties set out in this subsection and, if a claim is made against the state, shall indemnify, defend, and hold harmless the state from all claims, demands, actions, damages, and liability, including reasonable attorney's fees, that may arise as a result of the special event.
- (3) If a city has met the requirements of subsection (2) of this section for holding a special event and has provided thirty days' advance written notice of the special event to the department, the city may proceed with its temporary use of the state highway system. The notice shall specify the date and time the city will assume control of the state highway property and relinquish control of such state highway property to the state.
- (4) The Political Subdivisions Tort Claims Act shall apply to any claim arising during the time specified in a notice provided by a political subdivision pursuant to subsection (3) of this section.

WHEREAS, the City of David City wishes to support this annual event, and

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DAVID CITY, NEBRASKA, that the City Clerk is hereby authorized to forward this

resolution to the State of Nebraska Department of Roads for the closing of Highway 15 and "L" Street, from 2:00 p.m. to 7:00 p.m. for the parade to be held on Sunday, July 19, 2026 in David City, Nebraska.

Passed and adopted this 10th day of June, 2026.

Mayor Jessica J. Miller

City Clerk Lori M. Matchett

REQUEST FOR FUTURE AGENDA ITEM

If you have a specific topic that you would like the City to discuss at a future meeting, please list your name, address, telephone number, and the specific topic. The Item will be reviewed and possibly scheduled for a future meeting or forwarded to City staff for appropriate action.



NAME: Travis Hays

ADDRESS: 1637 Silver Dr.

TELEPHONE #: 402-326-9047

EMAIL ADDRESS: travishays92@hotmail.com

DATE OF REQUEST: May 10, 2026

DESCRIPTION: RESOLUTION APPROVING THE BUTLER COUNTY PARADE COMMITTEE'S REQUEST FOR THE PARADE TO CROSS HIGHWAY 15 ON "L" STREET ON SUNDAY, JULY 19, 2026 IN ACCORDANCE WITH LB 589

Deadline for City Council Agenda Items is six (6) days prior to the next meeting. Except for items of an emergency nature, the agenda shall not be altered later than 24 hours before the scheduled meeting.

OFFICE USE ONLY

Request Forwarded to City Staff Forwarded to: _____ Date Completed: _____

Action Taken: approved Resolution No. 8-2026 approving the Butler County Parade Committee request for the parade to cross Highway 15 on "L" Street on Sunday, July 19, 2026, in accordance with LB589. Motion by Keith Marvin. Second by Rick Holland. Motion Carried.

Abe1: Yea, Angell: Yea, Holland: Yea, Marvin: Yea, Meysenburg: Yea, Woita: Absent. Yea: 5,

Request Scheduled for City Council Meeting Date of Meeting: June 10, 2026 Nay: 0, Absent: 1

Request Scheduled for Planning Commission Meeting Date of Meeting: _____

Kyle Eller and Trent Jakob introduced themselves and addressed the Council regarding a proposal to beautify the median at the entrance to Silver Height subdivision. They explained that a tree had previously been located in the median and had been removed, and that the area is currently maintained as a grass patch. They presented a conceptual design for landscaping improvements and stated that neighborhood residents would undertake the project and raise private funds to complete the work. The Committee requests the City's approval to proceed with the beautification project and asks that the City provide rock material for use in the median. Volunteers would perform the necessary dirt work, install the underlayment, and maintain the improvements.

Council discussion noted that the proposed improvements would enhance the appearance of the neighborhood entrance and that the City has rock available for the project. Council Member Rick Holland made a motion to approve the Silver Heights median beautification project and authorize the use of City-owned rock material. Council Member Jim Angell seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

REQUEST FOR FUTURE AGENDA ITEM

If you have a specific topic that you would like the City Council to discuss at a future meeting, please list your name, address, telephone number, and the specific topic. The item will be reviewed and possibly scheduled for a future meeting, or forwarded to City staff for appropriate action.



NAME: TRAVIS HAYS

ADDRESS: 1637 SILVER DRIVE

TELEPHONE #: 402-326-9047

EMAIL ADDRESS: travishays92@hotmail.com

DATE OF REQUEST: 6/5/26

DESCRIPTION: Our neighborhood committee would like approval to landscape/beautify the island at the entrance to silver dr. Committee would furnish plants/trees and all the labor if the city would provide the river rock that the street department has stockpiled (talked to Chris Krosing). A committee representative will be present for questions if necessary

Deadline for City Council Agenda Items is six (6) days prior to the next meeting. Except for items of an emergency nature, the agenda shall not be altered later than 24 hours before the scheduled meeting.

OFFICE USE ONLY

Request Forwarded to City Staff Forwarded to: _____ Date Completed: _____

Action Taken: Council Member Rick Holland made a motion to approve the Silver Heights median beautification project and authorize the use of City-owned rock material. Council Member Jim Angell seconded the motion. The Motion carried. Abel: Yea, Angell: Yea, Holland: Yea, Marvin: Yea, Meysenburg: Yea, Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Request Scheduled for City Council Meeting Date of Meeting: June 10, 2026

Sarah Nguyen of JEO Consulting Group attended remotely on behalf of project engineer Ethan Joy and provided an update on the Wastewater Treatment Facility Improvement Project. She reported that the lift station is operational and functioning properly with the two new Sequencing Batch Reactor (SBR) units. Rehabilitation work on the two existing SBR treatment units is ongoing and is expected to be completed within the next few weeks. Council Member Bruce Meysenburg made a motion to approve Pay Application No. 27 to BRB Contractors, Inc. in the amount of \$278,838.08 for the David City Wastewater. Council Member Jeremy Abel seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Contractor's Application for Payment

| | |
|---|---|
| Owner: <u>City of David City</u> | Owner's Project No.: _____ |
| Engineer: <u>JEO Consulting Group, Inc.</u> | Engineer's Project No.: <u>251034.00</u> |
| Contractor: <u>BRB Contractors, Inc.</u> | Contractor's Project No.: <u>NE3DAV</u> |
| Project: <u>David City Wastewater Treatment Facility Improvements</u> | |
| Contract: <u>David City Wastewater Treatment Facility Improvements</u> | |
| Application No.: <u>27</u> | Application Date: <u>5/26/2026</u> |
| Application Period: From <u>4/23/2026</u> to <u>5/26/2025</u> | |

| | |
|--|------------------|
| 1. Original Contract Price | \$ 16,882,000.00 |
| 2. Net change by Change Orders | \$ 1,412,444.86 |
| 3. Current Contract Price (Line 1 + Line 2) | \$ 18,294,444.86 |
| 4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total) | \$ 17,626,989.73 |
| 5. Retainage | |
| a. <u>5%</u> X <u>\$ 17,501,224.50</u> Work Completed = | \$ 875,061.23 |
| b. <u>5%</u> X <u>\$ 125,765.23</u> Stored Materials = | \$ 6,288.26 |
| c. Total Retainage (Line 5.a + Line 5.b) | \$ 881,349.49 |
| 6. Amount eligible to date (Line 4 - Line 5.c) | \$ 16,745,640.24 |
| 7. Less previous payments (Line 6 from prior application) | \$ 16,466,802.16 |
| 8. Amount due this application | \$ 278,838.08 |
| 9. Balance to finish, including retainage (Line 3 - Line 4 + Line 5.c) | \$ 1,548,804.62 |

Contractor's Certification

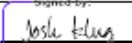
The undersigned Contractor certifies, to the best of its knowledge, the following:

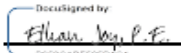
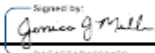
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: BRB Contractors, Inc.

Signature:  **Date:** 6/9/2026

| | |
|---|--|
| Recommended by Engineer | Approved by Owner |
| By: <u></u> | By: <u></u> |
| Title: <u>Project Manager</u> | Title: <u>Mayor</u> |
| Date: <u>6/9/2026</u> | Date: <u>6/11/2026</u> |
| Approved by Funding Agency | |
| By: <u>N/A</u> | By: <u>N/A</u> |
| Title: _____ | Title: _____ |
| Date: _____ | Date: _____ |

Progress Estimate - Lump Sum Work Contractor's Application for Payment

| | | |
|--|-----------------------------------|--------|
| Owner: City of David City | Owner's Project No.: 251034.00 | |
| Engineer: JEO Consulting Group, Inc. | Engineer's Project No.: | NEEDAV |
| Contractor: BRB Contractors, Inc. | Contractor's Project No.: | |
| Project: David City Wastewater Treatment Facility Improvements | | |
| Contract: David City Wastewater Treatment Facility Improvements | | |

| Item No. | A | B | C | D | | E | F | G | H | I |
|------------------------------|---|--|-----------------|----------------------|---|-----------|-------------------|--------------|------|-----------|
| | | | | Scheduled Value (\$) | Work Completed (D + E) From Previous Application (\$) | | | | | |
| Original Contract | | | | | | | | | | |
| | | Description | From | 04/23/26 | to | 05/26/25 | Application Date: | 05/26/26 | | |
| GENERAL SITEWORK | | | | | | | | | | |
| 1 | | Mobilize | \$ 750,000.00 | 750,000.00 | | | | 750,000.00 | 100% | - |
| 2 | | Bonds and Insurance | \$ 180,000.00 | 180,000.00 | | | | 180,000.00 | 100% | - |
| 3 | | SWPP Items | \$ 25,000.00 | 23,500.00 | 250.00 | | | 23,750.00 | 95% | 1,250.00 |
| 4 | | Site Clearing | \$ 30,000.00 | 30,000.00 | | | | 30,000.00 | 100% | - |
| 5 | | 12" & 16" Force-main Piping | \$ 300,000.00 | 300,000.00 | | | | 300,000.00 | 100% | - |
| 6 | | Other Piping/Valves | \$ 1,395,000.00 | 1,228,000.00 | 35,000.00 | 95,765.23 | | 1,358,765.23 | 97% | 36,234.77 |
| 7 | | Precast Manholes | \$ 65,000.00 | 60,000.00 | 5,000.00 | | | 65,000.00 | 100% | - |
| 8 | | Instrumentation & Control | \$ 50,000.00 | 25,000.00 | 17,500.00 | | | 42,500.00 | 85% | 7,500.00 |
| 9 | | Electrical/Generator Work | \$ 125,000.00 | 125,000.00 | | | | 125,000.00 | 100% | - |
| HEADWORKS BUILDING | | | | | | | | | | |
| 10 | | Excavation & Backfill | \$ 150,000.00 | 140,000.00 | 5,000.00 | | | 145,000.00 | 97% | 5,000.00 |
| 11 | | Concrete Base Structure | \$ 500,000.00 | 500,000.00 | | | | 500,000.00 | 100% | - |
| 12 | | Concrete Walls Structure | \$ 1,207,000.00 | 1,207,000.00 | | | | 1,207,000.00 | 100% | - |
| 13 | | Concrete Floor/Deck Structure | \$ 350,000.00 | 350,000.00 | | | | 350,000.00 | 100% | - |
| 14 | | Misc. Metals Furnish/Install | \$ 50,000.00 | 50,000.00 | | | | 50,000.00 | 100% | - |
| 15 | | Masonry Above Structure | \$ 225,000.00 | 225,000.00 | | | | 225,000.00 | 100% | - |
| 16 | | Doors & Windows Furnish/Install | \$ 65,000.00 | 65,000.00 | | | | 65,000.00 | 100% | - |
| 17 | | Roof Trusses Furnish/Install | \$ 45,000.00 | 45,000.00 | | | | 45,000.00 | 100% | - |
| 18 | | Standing Seam Roof & Specialties | \$ 100,000.00 | 100,000.00 | | | | 100,000.00 | 100% | - |
| 19 | | Slide Gates Furnish/Install | \$ 100,000.00 | 100,000.00 | | | | 100,000.00 | 100% | - |
| 20 | | Bar Screen Furnish/Install | \$ 200,000.00 | 200,000.00 | | | | 200,000.00 | 100% | - |
| 21 | | Grit Equipment, Valves, Flumes Furnish/Install | \$ 1,300,000.00 | 1,280,000.00 | 20,000.00 | | | 1,300,000.00 | 100% | - |
| 22 | | Parshall Flume | \$ 10,000.00 | 10,000.00 | | | | 10,000.00 | 100% | - |
| 23 | | Indoor Sampler | \$ 20,000.00 | 20,000.00 | | | | 20,000.00 | 100% | - |
| 24 | | Painting Structure | \$ 40,000.00 | 40,000.00 | | | | 40,000.00 | 100% | - |
| 25 | | Instrumentation & Control Work | \$ 950,000.00 | 833,253.00 | 116,747.00 | | | 950,000.00 | 100% | - |
| 26 | | Mechanical Work (both buildings) | \$ 270,000.00 | 235,000.00 | 15,000.00 | | | 250,000.00 | 93% | 20,000.00 |
| 27 | | Electrical Work | \$ 700,000.00 | 689,500.00 | 7,000.00 | | | 696,500.00 | 99% | 3,500.00 |
| AGP FLUME NO. 20 | | | | | | | | | | |
| 28 | | Excavation & Backfill | \$ 15,000.00 | 15,000.00 | | | | 15,000.00 | 100% | - |
| 29 | | Concrete Base | \$ 20,000.00 | 20,000.00 | | | | 20,000.00 | 100% | - |
| 30 | | Concrete Walls | \$ 42,000.00 | 42,000.00 | | | | 42,000.00 | 100% | - |
| 31 | | Misc. Metals Furnish/Install | \$ 10,000.00 | 10,000.00 | | | | 10,000.00 | 100% | - |
| 32 | | Equipment Flume Install | \$ 15,000.00 | 15,000.00 | | | | 15,000.00 | 100% | - |
| INFLUENT PUMP STATION | | | | | | | | | | |

Progress Estimate - Lump Sum Work Contractor's Application for Payment

| | |
|---|---|
| Owner: City of David City Engineer: JEO Consulting Group, Inc. Contractor: BRB Contractors, Inc. Project: David City Wastewater Treatment Facility Improvements Contract: David City Wastewater Treatment Facility Improvements | Owner's Project No.: 251034.00 Engineer's Project No.: NE3DAV Contractor's Project No.: |
|---|---|

| A Item No. | B Description | C Scheduled Value (\$) | D Work Completed (D + E) From Previous Application (\$) | | E This Period (\$) | F Currently Stored (not in D or E) (\$) | G Work Completed and Materials Stored to Date (D + E + F) (\$) | H % of Scheduled Value (G / C) (%) | I Balance to Finish (C - G) (\$) |
|---------------------------------|--|---------------------------|--|----------------------|-----------------------|--|---|---------------------------------------|-------------------------------------|
| | | | D | E | | | | | |
| 66 | Excavation & Backfill | \$ 35,000.00 | \$ 35,000.00 | | | | 35,000.00 | 100% | - |
| 67 | Building Drainage Piping & Oil Separator | \$ 40,000.00 | \$ 40,000.00 | | | | 40,000.00 | 100% | - |
| 68 | Concrete Foundations | \$ 40,000.00 | \$ 40,000.00 | | | | 40,000.00 | 100% | - |
| 69 | Concrete Floor | \$ 56,000.00 | \$ 56,000.00 | | | | 56,000.00 | 100% | - |
| 70 | New Building Walls and Roof | \$ 270,000.00 | \$ 259,259.00 | 10,741.00 | | | 270,000.00 | 100% | - |
| 71 | Doors & Windows | \$ 40,000.00 | \$ 40,000.00 | | | | 40,000.00 | 100% | - |
| 72 | Painting Work | \$ 30,000.00 | \$ - | 15,000.00 | | | 15,000.00 | 50% | 15,000.00 |
| 73 | Electrical Work | \$ 75,000.00 | \$ 22,000.00 | 10,000.00 | | 10,000.00 | 42,000.00 | 56% | 33,000.00 |
| 74 | DEMO EXISTING HEADWORKS BUILDING | \$ 30,000.00 | \$ - | - | | | - | 0% | 30,000.00 |
| | CLOSEOUT | | | | | | | | |
| 75 | Site Grading | \$ 25,000.00 | \$ - | - | | | - | 0% | 25,000.00 |
| 76 | SBR/Storage Building Sidewalks | \$ 25,000.00 | \$ - | - | | | - | 0% | 25,000.00 |
| 77 | Concrete Paving | \$ 20,000.00 | \$ - | - | | | - | 0% | 20,000.00 |
| 78 | Seeding & Mulch | \$ 15,000.00 | \$ - | - | | | - | 0% | 15,000.00 |
| 79 | Crushed Rock Surfacing Roads | \$ 80,000.00 | \$ - | 10,000.00 | | | 10,000.00 | 13% | 70,000.00 |
| 80 | Fence & Gate System | \$ 30,000.00 | \$ - | - | | | - | 0% | 30,000.00 |
| Original Contract Totals | | \$ 16,882,000.00 | \$ 15,697,262.00 | \$ 657,488.00 | \$ 125,765.23 | \$ 16,480,515.23 | \$ 401,484.77 | 98% | \$ |

Application No.: 27 Application Period: From 04/23/26 to 05/26/26 Application Date: 05/26/26

Stored Materials Summary

Owner: City of David City
 Engineer: JEO Consulting Group, Inc.
 Contractor: BRB Contractors, Inc.
 Project: David City Wastewater Treatment Facility Improvements
 Contract: David City Wastewater Treatment Facility Improvements

Contractor's Application for Payment

Owner's Project No.:
 Engineer's Project No.: 251034.00
 Contractor's Project No.: NE304V

| A Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab) | B Supplier Invoice No. | C Submittal No. (with Specification Section No.) | D Description of Materials or Equipment Stored | E Application Period: From | | F To | | G 04/23/26 | | H to | | I 05/26/25 | | J Application Date: 05/26/26 | | K Materials Stored | L Materials Remaining in Storage (I - L) |
|--|------------------------------|--|---|--|------------------|--|------------------|----------------------------|-----------------------------------|-------------------------------|--|---|---|--|--|-----------------------|---|
| | | | | Application No. When Materials Placed in Storage | Storage Location | Application No. When Materials Placed in Storage | Storage Location | Previous Amount Stored (G) | Amount Stored this Period (G + H) | Amount Stored to Date (G + H) | Amount Previously Incorporated in the Work (J) | Amount Incorporated in the Work this Period (K) | Total Amount Incorporated in the Work (J + K) | Materials Remaining in Storage (I - L) | | | |
| | 0757682-1 | | Ductile Iron Pipe | | | | | 6,545.67 | 6,545.67 | 6,545.67 | | | 6,545.67 | | | | |
| | 757682 | | Ductile Iron Pipe | | | | | 34,436.37 | 34,436.37 | 34,436.37 | | | 34,436.37 | | | | |
| | 8635424-01 | | Electrical Stored Materials | | | | | 1,893.10 | 1,893.10 | 1,893.10 | | | 1,893.10 | | | | |
| | 863766-00 | | Electrical Stored Materials | | | | | 1,344.01 | 1,344.01 | 1,344.01 | | | 1,344.01 | | | | |
| | 8635424-00 | | Electrical Stored Materials | | | | | 1,029.30 | 1,029.30 | 1,029.30 | | | 1,029.30 | | | | |
| | 8651300-00 | | Electrical Stored Materials | | | | | 249.97 | 249.97 | 249.97 | | | 249.97 | | | | |
| | 8602508-01 | | Electrical Stored Materials | | | | | 5,846.58 | 5,846.58 | 5,846.58 | | | 5,846.58 | | | | |
| | 8602508-02 | | Electrical Stored Materials | | | | | 18,107.44 | 18,107.44 | 18,107.44 | | | 18,107.44 | | | | |
| | 8634948-00 | | Electrical Stored Materials | | | | | 10.92 | 10.92 | 10.92 | | | 10.92 | | | | |
| | 2022-119 | | Electrical Stored Materials | | | | | 5,915.24 | 5,915.24 | 5,915.24 | | | 5,915.24 | | | | |
| | 95314 | | Valves | | | | | 35,962.26 | 35,962.26 | 35,962.26 | | | 35,962.26 | | | | |
| | 95196 | | Valves | | | | | 5,507.18 | 5,507.18 | 5,507.18 | | | 5,507.18 | | | | |
| | 95194 | | Valves | | | | | 64,227.99 | 64,227.99 | 64,227.99 | | | 64,227.99 | | | | |
| | 0760997-1 | | Embedded Wall Pipe | | | | | 10,490.00 | 10,490.00 | 10,490.00 | | | 10,490.00 | | | | |
| | 761001 | | Embedded Wall Pipe | | | | | 10,763.56 | 10,763.56 | 10,763.56 | | | 10,763.56 | | | | |
| | 759887 | | Ductile Iron Fittings | | | | | 14,654.75 | 14,654.75 | 14,654.75 | | | 14,654.75 | | | | |
| | 500202212134 | | Ductile Iron Pipe | | | | | 17,661.05 | 17,661.05 | 17,661.05 | | | 17,661.05 | | | | |
| | 500205590590 | | Headworks Area Rebar | | | | | 18,733.52 | 18,733.52 | 18,733.52 | | | 18,733.52 | | | | |
| | 95460 | | Generator Pad Rebar | | | | | 5,316.85 | 5,316.85 | 5,316.85 | | | 5,316.85 | | | | |
| | 765559 | | Valves | | | | | 9,113.55 | 9,113.55 | 9,113.55 | | | 9,113.55 | | | | |
| | 765117 | | Ductile Iron Pipe | | | | | 11,022.47 | 11,022.47 | 11,022.47 | | | 11,022.47 | | | | |
| | 764836 | | Ductile Iron Pipe | | | | | 95,948.26 | 95,948.26 | 95,948.26 | | | 95,948.26 | | | | |
| | 764427 | | Ductile Iron Pipe | | | | | 22,291.21 | 22,291.21 | 22,291.21 | | | 22,291.21 | | | | |
| | 0764836-1 | | Ductile Iron Pipe | | | | | 2,800.00 | 2,800.00 | 2,800.00 | | | 2,800.00 | | | | |
| | 764846 | | Ductile Iron Pipe | | | | | 9,449.42 | 9,449.42 | 9,449.42 | | | 9,449.42 | | | | |
| | 0765117-2 | | Ductile Iron Pipe | | | | | 21,007.67 | 21,007.67 | 21,007.67 | | | 21,007.67 | | | | |
| | 863766-01 | | Ductile Iron Pipe | | | | | 21,792.38 | 21,792.38 | 21,792.38 | | | 21,792.38 | | | | |
| | 8635424-02 | | Electrical Stored Materials | | | | | 6,180.00 | 6,180.00 | 6,180.00 | | | 6,180.00 | | | | |
| | 8635424-03 | | Electrical Stored Materials | | | | | 9,419.62 | 9,419.62 | 9,419.62 | | | 9,419.62 | | | | |
| | 8635424-04 | | Electrical Stored Materials | | | | | 5,327.55 | 5,327.55 | 5,327.55 | | | 5,327.55 | | | | |
| | 8635424-05 | | Electrical Stored Materials | | | | | 20,413.00 | 20,413.00 | 20,413.00 | | | 20,413.00 | | | | |
| | 8666003-00 | | Electrical Stored Materials | | | | | 4,119.52 | 4,119.52 | 4,119.52 | | | 4,119.52 | | | | |
| | 8602508-03 | | Electrical Stored Materials | | | | | 8,910.00 | 8,910.00 | 8,910.00 | | | 8,910.00 | | | | |
| | 8658232-01 | | Electrical Stored Materials | | | | | 5,317.25 | 5,317.25 | 5,317.25 | | | 5,317.25 | | | | |
| | 8658232-02 | | Electrical Stored Materials | | | | | 31,315.00 | 31,315.00 | 31,315.00 | | | 31,315.00 | | | | |
| | NECOL256197 | | Electrical Stored Materials | | | | | 32,956.00 | 32,956.00 | 32,956.00 | | | 32,956.00 | | | | |
| | 79795 | | Electrical Stored Materials | | | | | 301.18 | 301.18 | 301.18 | | | 301.18 | | | | |
| | 12251 | | HOA Progress Billing | | | | | 270.00 | 270.00 | 270.00 | | | 270.00 | | | | |
| | 27665 | | Submersible Pumps | | | | | 227,884.60 | 227,884.60 | 227,884.60 | | | 227,884.60 | | | | |
| | 0174897-IN | | HOist | | | | | 432,500.00 | 432,500.00 | 432,500.00 | | | 432,500.00 | | | | |
| | 0765117-6 | | Pipe and Fittings | | | | | 19,110.00 | 19,110.00 | 19,110.00 | | | 19,110.00 | | | | |
| | 0765117-5 | | Pipe and Fittings | | | | | 9,402.29 | 9,402.29 | 9,402.29 | | | 9,402.29 | | | | |
| | 0765117-4 | | Pipe and Fittings | | | | | 39,726.61 | 39,726.61 | 39,726.61 | | | 39,726.61 | | | | |
| | 0765117-3 | | Pipe and Fittings | | | | | 6,442.13 | 6,442.13 | 6,442.13 | | | 6,442.13 | | | | |
| | 0765117-2 | | Pipe and Fittings | | | | | 26,816.12 | 26,816.12 | 26,816.12 | | | 26,816.12 | | | | |
| | 766259 | | Pipe and Fittings | | | | | 570.28 | 570.28 | 570.28 | | | 570.28 | | | | |
| | 764018 | | Pipe and Fittings | | | | | 21,663.44 | 21,663.44 | 21,663.44 | | | 21,663.44 | | | | |
| | 95755 | | Pipe and Fittings | | | | | 25,146.59 | 25,146.59 | 25,146.59 | | | 25,146.59 | | | | |
| | 8635424-05 | | Electrical Stored Materials | | | | | 33,531.00 | 33,531.00 | 33,531.00 | | | 33,531.00 | | | | |
| | | | | | | | | 386.20 | 386.20 | 386.20 | | | 386.20 | | | | |

Stored Materials Summary

Owner: City of David City
 Engineer: JEO Consulting Group, Inc.
 Contractor: BRB Contractors, Inc.
 Project: David City Wastewater Treatment Facility Improvements
 Contract: David City Wastewater Treatment Facility Improvements

Owner's Project No.: 251034.00
 Engineer's Project No.: NE304V
 Contractor's Project No.:

Application No.: 27 Application Period: From 04/23/26 to 05/26/25 Application Date: 05/26/26

| A Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab) | B Supplier Invoice No. | C Submittal No. (with Specification Section No.) | D Description of Materials or Equipment Stored | E Storage Location | F Application No. When Materials Placed in Storage | G Materials Stored | | H Amount Stored Period (\$) | I Amount Stored to Date (G + H) (\$) | J Amount Previously Incorporated in the Work (\$) | K Amount Incorporated in the Work this Period (\$) | L Total Amount Incorporated in the Work (J + K) (\$) | M Materials Remaining in Storage (I - L) (\$) |
|--|------------------------------|--|---|-----------------------|---|-----------------------------------|--------------------------------------|--------------------------------------|--|---|--|---|--|
| | | | | | | Previous Amount Stored (\$) | Amount Stored this Period (\$) | | | | | | |
| | 8653853-00 | | Electrical Stored Materials | | | | 1,335.00 | 1,335.00 | 1,335.00 | | | 1,335.00 | - |
| | 8602508-00 | | Electrical Stored Materials | | | | 373.10 | 373.10 | 373.10 | | | 373.10 | - |
| | 8669471-00 | | Electrical Stored Materials | | | | 266.93 | 266.93 | 266.93 | | | 266.93 | - |
| | 8602508-05 | | Electrical Stored Materials | | | | 2,328.26 | 2,328.26 | 2,328.26 | | | 2,328.26 | - |
| | 8635424-06 | | Electrical Stored Materials | | | | 12,514.95 | 12,514.95 | 12,514.95 | | | 12,514.95 | - |
| | 8792 | | Grit Pump | | | | 23,395.00 | 23,395.00 | 23,395.00 | | | 23,395.00 | - |
| | 29452 | | Handrail | | | | 12,300.00 | 12,300.00 | 12,300.00 | | | 12,300.00 | - |
| | 568 | | HVAC: Air Conditioners | | | | 16,920.00 | 16,920.00 | 16,920.00 | | | 16,920.00 | - |
| | 0765117-7 | | Pipe and Fittings | | | | 2,528.22 | 2,528.22 | 2,528.22 | | | 2,528.22 | - |
| | 766417 | | Piping System/Ball Valves | | | | 3,112.76 | 3,112.76 | 3,112.76 | | | 3,112.76 | - |
| | 770080 | | Pipe and Fittings | | | | 4,184.11 | 4,184.11 | 4,184.11 | | | 4,184.11 | - |
| | 765579 | | Pipe and Fittings | | | | 33,920.76 | 33,920.76 | 33,920.76 | | | 33,920.76 | - |
| | 0057750-IN | | Sand/Oil Trap | | | | 10,900.00 | 10,900.00 | 10,900.00 | | | 10,900.00 | - |
| | 29678 | | Ladders | | | | 8,250.00 | 8,250.00 | 8,250.00 | | | 8,250.00 | - |
| | 768915 | | Pipe and Fittings | | | | 17,343.56 | 17,343.56 | 17,343.56 | | | 17,343.56 | - |
| | 1045580 | | Aqua Aerobic SBR Equipment | | | | 254,849.56 | 254,849.56 | 254,849.56 | | | 254,849.56 | - |
| | 1046052 | | Aqua Aerobic SBR Equipment | | | | 703,753.84 | 703,753.84 | 703,753.84 | | | 703,753.84 | - |
| | 24105-18870 | | Bar Screen | | | | 127,871.00 | 127,871.00 | 127,871.00 | | | 127,871.00 | - |
| | 8653766-02 | | Generator | | | | 82,368.00 | 82,368.00 | 82,368.00 | | | 82,368.00 | - |
| | 1046371 | | Electrical Stored Materials | | | | 12,200.28 | 12,200.28 | 12,200.28 | | | 12,200.28 | - |
| | 448099 | | Precast Manholes | | | | 56,029.84 | 56,029.84 | 56,029.84 | | | 56,029.84 | - |
| | 448100 | | Precast Manholes | | | | 6,367.96 | 6,367.96 | 6,367.96 | | | 6,367.96 | - |
| | 1046788 | | Aqua Aerobic Equipment | | | | 456,848.92 | 456,848.92 | 456,848.92 | | | 456,848.92 | - |
| | 1046711 | | Aqua Aerobic Equipment | | | | 4,266.73 | 4,266.73 | 4,266.73 | | | 4,266.73 | - |
| | 769540 | | Pipe and Fittings | | | | 10,912.32 | 10,912.32 | 10,912.32 | | | 10,912.32 | - |
| | 777143 | | Pipe and Fittings | | | | 9,368.08 | 9,368.08 | 9,368.08 | | | 9,368.08 | - |
| | 50030735331 | | Blower Room Rebar | | | | 4,203.29 | 4,203.29 | 4,203.29 | | | 4,203.29 | - |
| | 50113091 | | Doors and Frames | | | | 30,000.00 | 30,000.00 | 30,000.00 | | | 30,000.00 | - |
| | 1047082 | | Aqua Aerobic Equipment | | | | 75,103.16 | 75,103.16 | 75,103.16 | | | 75,103.16 | - |
| | 12687 | | Instrumentation Equipment | | | | 55,490.40 | 55,490.40 | 55,490.40 | | | 55,490.40 | - |
| | 97506 | | Slide Gates | | | | 277,359.52 | 277,359.52 | 277,359.52 | | | 277,359.52 | - |
| | 777559 | | Ductile Iron Pipe and Fittings (SBR) | | | | 33,415.07 | 33,415.07 | 33,415.07 | | | 33,415.07 | - |
| | 777526 | | Ductile Iron Pipe and Fittings (Blower) | | | | 7,835.01 | 7,835.01 | 7,835.01 | | | 7,835.01 | - |
| | 0777559-1 | | Ductile Iron Pipe and Fittings (SBR) | | | | 17,352.34 | 17,352.34 | 17,352.34 | | | 17,352.34 | - |
| | 30706 | | Misc Steel | | | | 81,605.00 | 81,605.00 | 81,605.00 | | | 81,605.00 | - |
| | 12743 | | Motor Control Centers and Drives | | | | 438,253.00 | 438,253.00 | 438,253.00 | | | 438,253.00 | - |
| | 97802 | | Slide Gate Actuator | | | | 22,576.82 | 22,576.82 | 22,576.82 | | | 22,576.82 | - |
| | 97966 | | Grit Removal System | | | | 227,316.00 | 227,316.00 | 227,316.00 | | | 227,316.00 | - |
| 6 | 781379 | | Ductile Iron Pipe and Fittings | | | | 6,995.20 | 6,995.20 | 6,995.20 | | | 6,995.20 | - |
| 6 | 0779406-1 | | Ductile Iron Pipe and Fittings | | | | 5,131.29 | 5,131.29 | 5,131.29 | | | 5,131.29 | - |
| 6 | 079406-2 | | Ductile Iron Pipe and Fittings | | | | 93,081.78 | 93,081.78 | 93,081.78 | | | 93,081.78 | - |
| 6 | 0777559-2 | | Ductile Iron Pipe and Fittings | | | | 11,821.88 | 11,821.88 | 11,821.88 | | | 11,821.88 | - |
| 6 | 780229 | | 14" SBR Pipe | | | | 4,492.31 | 4,492.31 | 4,492.31 | | | 4,492.31 | - |
| | IN108191 | | Doors and Frames | | | | 16,637.14 | 16,637.14 | 16,637.14 | | | 16,637.14 | - |
| | 133739 | | Headworks Trusses (Partial) | | | | 4,925.00 | 4,925.00 | 4,925.00 | | | 4,925.00 | - |
| | 781551 | | Ductile Iron Pipe and Fittings | | | | 12,310.45 | 12,310.45 | 12,310.45 | | | 12,310.45 | - |
| | 0785422-1 | | Ductile Iron Fittings (Blower) | | | | 9,229.73 | 9,229.73 | 9,229.73 | | | 9,229.73 | - |
| CO 7 | 0793899-2 | | Ductile Iron Fittings (SBR) | | | | 30,196.48 | 30,196.48 | 30,196.48 | | | 30,196.48 | - |

Stored Materials Summary

Owner: City of David City
 Engineer: JEO Consulting Group, Inc.
 Contractor: BRB Contractors, Inc.
 Project: David City Wastewater Treatment Facility Improvements
 Contract: David City Wastewater Treatment Facility Improvements

Application No.: 27

| | | Application Period: From 04/23/26 to 05/26/25 | | Application Date: 05/26/26 | | | | | | | | |
|---|-------------------------|---|--|----------------------------|--|----------------------------------|---|--|---|--|---|--|
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab) | Supplier Invoice No. | Submittal No. (with Specification Section No.) | Description of Materials or Equipment Stored | Storage Location | Application No. When Materials Placed in Storage | Previous Amount Stored (5) | Materials Stored Amount Stored this Period (5) | Amount Stored to Date (G + H) (5) | Amount Previously Incorporated in the Work (5) | Amount Incorporated in the Work this Period (5) | Total Amount Incorporated in the Work (J + K) (5) | Materials Remaining in Storage (I - L) (5) |
| | | | | | | \$ 7,069,288.03 | \$ - | \$ 7,069,288.03 | \$ 6,503,548.57 | \$ 438,974.23 | \$ 6,942,522.80 | \$ - |
| Totals: | | | | | | \$ 7,069,288.03 | \$ - | \$ 7,069,288.03 | \$ 6,503,548.57 | \$ 438,974.23 | \$ 6,942,522.80 | \$ 1,257,765.23 |

Council Member Jim Angell made a motion to table the discussion/consideration of changing companies for RO Water Plant Chemicals to Garratt Callahan. Council Member Keith Marvin seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent Yea: 5, Nay: 0, Absent: 1

Wastewater Supervisor Joshua Human addressed the Council regarding the proposed purchase of a gas meter docking and calibration station. Mr. Human explained that City employees regularly enter confined spaces as part of wastewater and field operations, where hazards such as toxic gases and oxygen-deficient environments may be present. The docking and calibration station would be used to ensure the City's gas meters are properly calibrated and functioning accurately before employees enter confined spaces.

Mr. Human noted that the City recently acquired four gas meters and emphasized the importance of maintaining and calibrating the equipment to support employee safety. He also referenced a recent incident in which a gas meter indicated an oxygen deficiency at the wastewater treatment facility headworks building, demonstrating the need for reliable monitoring equipment.

Council discussion emphasized the importance of employee safety, proper training, and ensuring that staff have the equipment necessary to safely perform work in confined spaces.

Council Member Keith Marvin made a motion to approve the quote from DXP for calibration on gas meters. Council Member Rick Holland seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

(Space Intentionally Left Blank)



Suite OMW
 9610 J St.
 Omaha, NE 68127

Phone 402-593-7000
 Fax 402-593-5225

Bill To:
 CITY OF DAVID CITY
 PO Box 191
 David City, NE 68632-0191
 US

402-367-3135

Ship To:
 CITY OF DAVID CITY
 614 N 5th St
 David City, NE 68632-1402
 US

QUOTATION

| | |
|--------------------------|----------------|
| Order Number 15464873 | |
| | |
| Order Date 06/02/2026 | Page 1 of 1 |

Quote Expires On 7/17/2026

Customer ID: 599864 Requested By: CONTACT AP Order Required Date 06/02/2026

| PO Number | Ship Route | Taker | SalesRep |
|-----------|------------|-----------------|-----------------|
| Quote | | MICHAEL.DANNULL | Michael Dannull |

| Quantities | | | | | Item ID Item Description | Pricing UOM Unit Size | Unit Price | Extended Price |
|------------------------------|-----------|-----------|------------------|------|-----------------------------|---|---------------|-------------------|
| Ordered | Allocated | Remaining | UOM Unit Size | Days | | | | |
| 2.000 | 0.000 | 2.000 | EA | | (001) RK1 81-SDM3R102 | EA | 1,655.0000 | 3,310.00 |
| Item Required Date: 6/2/2026 | | | | | 1.0 | SDM-3R CALIBRATION STATION | 1.0 | |
| 2.000 | 0.000 | 2.000 | EA | | (002) RK1 81-SDM3R103 | EA | 1,875.0000 | 3,750.00 |
| Item Required Date: 6/2/2026 | | | | | 1.0 | CALIBRATION STATION, REGULATOR, CAL GAS | 1.0 | |

Total Lines: 2

SUB-TOTAL: 7,060.00
TAX: 529.50
AMOUNT DUE: 7,589.50
 USD

**** Pricing subject to change at time of shipment due to government imposed tariffs ****

Council Member Bruce Meysenburg made a motion to approve the application of Scott Samek to sell permissible fireworks at 594 N. 4th Street. Council Member Keith Marvin seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

APPLICATION TO SELL PERMISSIBLE FIREWORKS

Application is hereby made to the Mayor and City Council of the City of David City, Nebraska, by Samek Fireworks - Scott T. Samek under provisions of Section 28-1003.09 R.R.S. Nebraska, Reissue 1943, as amended for a permit to sell permissible fireworks at retail at Agency One Insurance - 594 N 4th between 12:01 a.m. June 25th and 11:59 p.m. July 4, 2026 (Ruling from State Fire Marshall advises fireworks cannot be sold until 12:01 a.m. June 25.) **(A letter from the property owner giving permission for you to be on their property must be attached).**

The undersigned applicant hereby declares that State License No. 2026-RP-99386494-356-02 has been acquired representing that applicant is duly licensed by the State of Nebraska to sell permissible fireworks. **(A copy of the NE State Fire Marshal License for Sale of Fireworks must be attached to this application.)**

Upon issuance of the permit the undersigned applicant hereby agrees to sell only permissible fireworks at the location listed above. Applicant will be in strict accordance with all Statutes of the State of Nebraska and all City Ordinances of the City of David City, Nebraska.

A fee of \$250.00 must accompany this application. (Res. 8-2008)

Dated this 1st day of June, 2026.

Scott T. Samek
Applicant
1140 N 5th
Address
David City NE 68632
City
402-641-8562
Phone

NEBRASKA STATE FIRE MARSHAL

246 South 14th Street
Lincoln, NE 68508-1804

LICENSE FOR SALE OF FIREWORKS

Permissible fireworks may be sold at retail commencing 12:01 AM June 25 and ending 11:59 PM July 4 OR 12:01 AM December 29 and ending 11:59 PM December 31 and must be purchased from a licensed distributor or jobber. A jobber may not sell retail. Invoice copies for all fireworks must be kept available for inspection and must show the license number of the distributor or jobber. Fireworks may not be sold outside the city limits of an incorporated town or village. Violations of State Fire Marshal regulations may result in immediate revocation of this license.

LICENSE GOOD ONLY FOR CALENDAR YEAR IN WHICH ISSUED

This copy signed, dated and numbered by the STATE FIRE MARSHAL constitutes issuance of a LICENSE pursuant to the provisions of Nebraska Revised Statute 28-1246 (1994 Supp.). Such license shall be displayed at licensee's place of business.

DATE RECEIVED:

May 28, 2026 09:02 PM

TYPE OF LICENSE AND FEE:

July Sales - Retail Permit - \$100.00

LOCATION OF OUTLET FOR RETAIL SALE OF FIREWORKS:

594 N 4th Street
David City
Stand in parking lot

COUNTY:

Butler

STORAGE LOCATION:

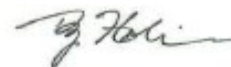
DISTRIBUTOR(S)/JOBBER(S):

Lew's Fireworks Inc. (2026-RP-96375576-1)
Jakes Fireworks, Inc (2026-RP-96517734-9)
Schneitter Fireworks & Importing Co. (2026-RP-98283056-41)

SALES TAX NUMBER:

DATE ISSUED:

May 26, 2026 11:00 AM



STATE FIRE MARSHAL

LICENSE HOLDER:

Samek Fireworks

LICENSE NUMBER:

2026-RP-99386494-356-02

I give permission to Samek Fireworks to have a stand at Agency One Insurance at 594 N 4th.

Pam Siedky
6-3-2026

Council President Bruce Meysenburg introduced Ordinance No. 1532 to adopt an updated water rate schedule for customers using more than 2,000,000 gallons of water per month. Mayor Jessica Miller read Ordinance No. 1532 by title.

Council Member Keith Marvin made a motion to suspend the statutory rule requiring that an Ordinance be read on three separate days. Council Member Jim Angell seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

Council Member Keith Marvin made a motion to approve Ordinance No. 1532, adopting an updated water rate schedule for customers using more than 2,000,000 gallons of water per month. Council Member Rick Holland seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

ORDINANCE NO. 1532

AN ORDINANCE SETTING THE MONTHLY RATES TO BE CHARGED FOR WATER USAGE; CUSTOMER CHARGES; EFFECTIVE DATES AND RATES; REPEALING ALL PARTS OF THE MUNICIPAL CODE AND ORDINANCES IN CONFLICT HEREWITH; AND PROVIDING FOR PUBLICATION OF THE ORDINANCE IN PAMPHLET FORM.

WHEREAS, SECTION 7-211 OF THE MUNICIPAL CODE PROVIDES THAT THE GOVERNING BODY SHALL SET RATES TO BE CHARGED BY ORDINANCE.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DAVID CITY, NEBRASKA.

Section 1. That the following monthly rates and customer charges shall become effective **June 19, 2026** (water used May 19 – June 19, billed in July, and due August 1 - 10th), for all customers using less than 2,000,000 gallons of water per month:

For 5/8" by 3/4" meters:

Customer charge of \$28.50 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 3/4" meters:

Customer charge of \$35.75 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 1" meters:

Customer charge of \$35.75 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 1 1/2" meters:

Customer charge of \$71.25 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 2" meters:

Customer charge of \$212.50 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 3" meters:

Customer charge of \$300.00 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

For 4" meters:

Customer charge of \$300.00 per month (no water usage included);
and \$3.41 per 1,000 gallons for First 10,000;
and \$3.87 per 1,000 gallons Over 10,000

Section 2.

That the following monthly rates and customer charges shall become effective **June 19, 2026** (water used May 19 – June 19, billed in July, and due August 1 - 10th), **for all customers using, or anticipated to use, more than 2,000,000 gallons of water per month:**

For 5/8" by 3/4" meters:

Customer charge of \$28.50 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 3/4" meters:

Customer charge of \$35.75 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 1" meters:

Customer charge of \$35.75 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 1 1/2" meters:

Customer charge of \$71.25 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 2" meters:

Customer charge of \$212.50 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 3" meters:

Customer charge of \$300.00 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For 4" meters:

Customer charge of \$300.00 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

For meters greater than 4":

Customer charge of \$375.00 per month (no water usage included);
and \$3.21 per 1,000 gallons for First 10,000;
and \$3.31 per 1,000 gallons Over 10,000

Section 3. The monthly rates to be charged for water usage and customer charges will be reviewed by the City Council on as needed basis.

Section 4. That any other ordinance or section of any ordinance passed and approved prior to passage, approval, and publication or posting of this ordinance and in conflict with its provisions, is hereby repealed.

Section 5. This ordinance shall be published in pamphlet form and shall be in full force and effect from and after its passage as provided by law.

PASSED AND APPROVED this 10th day of June, 2026.

(ATTEST)

Mayor Jessica Miller

City Clerk Lori Matchett

Council Member Keith Marvin made a motion to adjourn at 7:25 p.m. Council Member Rick Holland seconded the motion. The motion carried. Jeremy Abel: Yea, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Absent. Yea: 5, Nay: 0, Absent: 1.

CERTIFICATION OF MINUTES

June 10, 2026

I, Lori Matchett, duly qualified and acting City Clerk for the City of David City, Nebraska, do hereby certify with regard to all proceedings of June 10, 2026; that all of the subjects included in the foregoing proceedings were contained in the agenda for the meeting, kept continually current and available for public inspection at the office of the City Clerk; that such subjects were contained in said agenda for at least twenty-four hours prior to said meeting; that the minutes of the meeting of the City Council of the City of David City, Nebraska, were in written form and available for public inspection within ten working days and prior to the next convened meeting of said body; that all news media requesting notification concerning meetings of said body were provided with advance notification of the time and place of said meeting and the subjects to be discussed at said meeting.

Lori Matchett, City Clerk

REQUEST FOR FUTURE AGENDA ITEM

If you have a specific topic that you would like the City Council to discuss at a future meeting, please list your name, address, telephone number, and the specific topic. The item will be reviewed and possibly scheduled for a future meeting, or forwarded to City staff for appropriate action.



NAME: Trevin Jahde

ADDRESS: 1087 N 6th David City, NE 68632

TELEPHONE #: 402-641-8781 (Tiffani mom)

EMAIL ADDRESS: tiffjahde@gmail.com

DATE OF REQUEST: 6-9-26

DESCRIPTION: Follow up after receiving fundraising money for Boy Scout Eagle project

Deadline for City Council Agenda Items is six (6) days prior to the next meeting. Except for items of an emergency nature, the agenda shall not be altered later than 24 hours before the scheduled meeting.

OFFICE USE ONLY

Request Forwarded to City Staff Forwarded to: _____ Date Completed: _____

Action Taken: _____

Request Scheduled for City Council Meeting Date of Meeting: July 10, 2026



June 18, 2026

City of David City
490 E Street
David City, NE 68632

RE: David City, Nebraska
2025 Water Treatment Plant Backwash Forcemain
JEO Project No. 251298.00

Dear City Council:

On June 18, 2026, five (5) bids were received by the City of David City for the above-mentioned project. The Bid Tab is enclosed.

The low bidder for the project is Rutjens Construction Inc. from Tilden, Nebraska, submitting a total price of \$265,158.00. The Engineer's Estimate was \$375,000.

Based on our review of the bids, Rutjens Construction Inc. has provided the appropriate paperwork and is a reputable contractor. It is our recommendation to the City Council to award the project to Rutjens Construction Inc. as the lowest, responsive bidder.

If you have any questions about the recommendation, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Sarah Nguyen".

Sarah Nguyen
Project Engineer

Enclosures – Bid Tab



Bid Tab

PROJECT | 2025 Water Treatment Plant Backwash Forcemain

JEO PROJECT NO. | 251298.00

LOCATION | David City, Nebraska

LETTING | 6/18/2026 at 2:00 PM CST

OPINION OF PROBABLE COST | \$375,000

| Bidder | Total Base Bid Group A |
|--|------------------------|
| Rutjens Construction Inc. Tilden, NE | \$265,158.00 |
| Obrist & Company Inc. Columbus, NE | \$305,190.50 |
| RP Constructors, LLC North Sioux City, SD | \$399,807.00 |
| Vrba Construction Inc Schuyler, NE | \$406,050.25 |
| MC Wells Contracting, LLC Omaha, NE | \$547,452.00 |



Tab Sheet

PROJECT | 2025 Water Treatment Plant Backwash Forcemain

JEO PROJECT NO. | 251298.00

LOCATION | David City, Nebraska

| | |
|---------------------------|-----------------------|
| Rutjens Construction Inc. | Obrist & Company Inc. |
|---------------------------|-----------------------|

| BASE BID GROUP A – FORCE MAIN | | | | | | | |
|--------------------------------------|--|-------|------|------------|--------------|------------|--------------|
| Item | Description | Qty. | Unit | Unit Price | Total | Unit Price | Total |
| 1 | Mobilization | 1 | LS | | \$15,000.00 | | \$10,000.00 |
| 2 | Bonding and Insurance | 1 | LS | | \$1,500.00 | | \$5,000.00 |
| 3 | 8" PVC Force Main, SDR 26, RJ, Directionally Bored | 2,601 | LF | \$67.00 | \$174,267.00 | \$80.50 | \$209,380.50 |
| 4 | 8" PVC Force Main, SDR 26 | 153 | LF | \$45.00 | \$6,885.00 | \$75.00 | \$11,475.00 |
| 5 | 8" 90° Bend, MJ | 3 | EA | \$711.00 | \$2,133.00 | \$650.00 | \$1,950.00 |
| 6 | 8" 45° Bend, MJ | 4 | EA | \$721.00 | \$2,884.00 | \$675.00 | \$2,700.00 |
| 7 | Remove Pavement | 153 | SY | \$15.00 | \$2,295.00 | \$40.00 | \$6,120.00 |
| 8 | 6" Concrete Pavement | 153 | SY | \$96.00 | \$14,688.00 | \$55.00 | \$8,415.00 |
| 9 | Remove Gravel Aggregate | 165 | SY | \$3.00 | \$495.00 | \$10.00 | \$1,650.00 |
| 10 | Gravel Aggregate | 165 | SY | \$10.00 | \$1,650.00 | \$75.00 | \$12,375.00 |
| 11 | Geosynthetic Clay Liner | 60 | LF | \$55.00 | \$3,300.00 | \$80.00 | \$4,800.00 |
| 12 | Connect to Existing Manhole | 1 | EA | \$1,500.00 | \$1,500.00 | \$1,500.00 | \$1,500.00 |
| 13 | Remove Existing Sanitary Sewer | 60 | LF | \$18.00 | \$1,080.00 | \$45.00 | \$2,700.00 |
| 14 | Backwash Manhole Improvements | 1 | LS | | \$37,481.00 | | \$27,125.00 |
| TOTAL BASE BID GROUP A | | | | | \$265,158.00 | | \$305,190.50 |



Tab Sheet

PROJECT | 2025 Water Treatment Plant Backwash Forcemain

JEO PROJECT NO. | 251298.00

LOCATION | David City, Nebraska

| | | | | RP Constructors, LLC | | | Vrba Construction Inc | | | MC Wells Contracting, LLC |
|--------------------------------------|--|-------|------|----------------------|--------------|------------|-----------------------|------------|--------------|---------------------------|
| BASE BID GROUP A – FORCE MAIN | | | | | | | | | | |
| Item | Description | Qty. | Unit | Unit Price | Total | Unit Price | Total | Unit Price | Total | |
| 1 | Mobilization | 1 | LS | | \$69,625.00 | | \$20,000.00 | | \$50,000.00 | |
| 2 | Bonding and Insurance | 1 | LS | | \$8,328.00 | | \$19,750.00 | | \$25,000.00 | |
| 3 | 8" PVC Force Main, SDR 26, RJ, Directionally Bored | 2,601 | LF | \$82.00 | \$213,282.00 | \$89.25 | \$232,139.25 | \$138.00 | \$358,938.00 | |
| 4 | 8" PVC Force Main, SDR 26 | 153 | LF | \$114.00 | \$17,442.00 | \$205.25 | \$31,403.25 | \$113.00 | \$17,289.00 | |
| 5 | 8" 90° Bend, MJ | 3 | EA | \$1,510.00 | \$4,530.00 | \$660.00 | \$1,980.00 | \$1,000.00 | \$3,000.00 | |
| 6 | 8" 45° Bend, MJ | 4 | EA | \$1,475.00 | \$5,900.00 | \$640.00 | \$2,560.00 | \$1,000.00 | \$4,000.00 | |
| 7 | Remove Pavement | 153 | SY | \$20.00 | \$3,060.00 | \$20.70 | \$3,167.10 | \$25.00 | \$3,825.00 | |
| 8 | 6" Concrete Pavement | 153 | SY | \$130.00 | \$19,890.00 | \$128.80 | \$19,706.40 | \$250.00 | \$38,250.00 | |
| 9 | Remove Gravel Aggregate | 165 | SY | \$7.00 | \$1,155.00 | \$22.25 | \$3,671.25 | \$20.00 | \$3,300.00 | |
| 10 | Gravel Aggregate | 165 | SY | \$17.00 | \$2,805.00 | \$40.20 | \$6,633.00 | \$90.00 | \$14,850.00 | |
| 11 | Geosynthetic Clay Liner | 60 | LF | \$95.00 | \$5,700.00 | \$83.00 | \$4,980.00 | \$100.00 | \$6,000.00 | |
| 12 | Connect to Existing Manhole | 1 | EA | \$6,500.00 | \$6,500.00 | \$1,125.00 | \$1,125.00 | \$5,000.00 | \$5,000.00 | |
| 13 | Remove Existing Sanitary Sewer | 60 | LF | \$35.00 | \$2,100.00 | \$32.25 | \$1,935.00 | \$50.00 | \$3,000.00 | |
| 14 | Backwash Manhole Improvements | 1 | LS | | \$39,490.00 | | \$57,000.00 | | \$15,000.00 | |
| TOTAL BASE BID GROUP A | | | | | \$399,807.00 | | \$406,050.25 | | \$547,452.00 | |



June 19, 2026

Pat Hoefft, Electric Supervisor
City of David City
490 E Street
David City, NE 6632

RE: 2026 Electrical Distribution Improvements
David City, Nebraska
JEO Project No. 260990.00

Dear Pat and Members of the Council:

JEO Consulting Group, Inc. (JEO) is pleased to submit this letter of recommendation for the bid opening conducted on June 18, 2026.

JEO received three (3) responsive bids on Thursday, June 18, 2026, for the '2026 Electrical Distribution Improvements' project. The responsive bids ranged in the amount of \$127,237.54 - \$218,225.55 for Group A, \$144,147.87 - \$197,733.35 for Group B, and \$144,316.50 - \$314,091.10 for Group C, with the bid tab included. The Engineer's estimates were \$82,000 for Group A, \$97,000 for Group B, and \$147,000 for Group C (\$326,000 for all Groups).

JEO has completed a thorough review of all bids received. We recommend that the Owner accept the lowest responsive bid for the combination of all three (3) Groups submitted by Watts Electric Company (Watts) in the amount of \$427,312.14.

The '2026 Electrical Distribution Improvements' project is required to replace critical power poles, harden electrical infrastructure, and upgrade to underground to alleviate electrical clearance concerns. Watts has demonstrated experience on project(s) completed with JEO.

If you have any questions and/or concerns, do not hesitate to contact me via email at mkalin@jeo.com or mobile phone at 402.360.0217.

Respectfully submitted,

A handwritten signature in blue ink that reads "Matt E. Kalin".

Matt E. Kalin, PE
Electrical Senior Project Manager

MEK:mlc
Enclosure



Bid Tab

PROJECT | 2026 Electrical Distribution Improvements

JEO PROJECT NO. | 260990.00

LOCATION | David City, NE

LETTING | June 18, 2026 @ 3:00 pm

OPINION OF PROBABLE COST | Group A - \$82,000, Group B - \$97,000, Group C - 147,000

| Bidder | Total Group A | Total Group B | Total Group C | Total Groups A, B, & C |
|--|---------------------|---------------|---------------------|------------------------|
| Watts Electric Company Waverly, NE | \$134,802.68 | \$144,147.87 | \$148,361.59 | \$427,312.14 |
| IES Commercial Inc. Holdrege, NE | \$127,237.54 | \$159,314.61 | <i>\$144,316.50</i> | <i>\$430,868.65</i> |
| Altitude Energy, LLC Keenesburg, CO | <i>\$218,225.55</i> | \$197,733.35 | \$314,091.10 | \$730,050.00 |

Numbers highlighted and in italics indicate an irregularity in the contractor's original bid form.



Tab Sheet

PROJECT | 2026 Electrical Distribution Improvements

JEO PROJECT NO. | 260990.00

LOCATION | David City, NE

| | | | | Watts Electric Co. | IES Commercial, Inc. | | |
|----------------------------|---------------|------|------|--------------------|----------------------|------------|------------|
| GROUP A | | | | | | | |
| Item | Description | Qty. | Unit | Unit Price | Total | Unit Price | Total |
| POLES | | | | | | | |
| 1 | 35/3 WOOD | 4 | EA | \$954.50 | \$3,818.00 | \$1,941.89 | \$7,767.56 |
| 2 | 40/2 WOOD | 2 | EA | \$996.00 | \$1,992.00 | \$2,243.55 | \$4,487.10 |
| 3 | 40/3 WOOD | 1 | EA | \$996.00 | \$996.00 | \$2,243.55 | \$2,243.55 |
| 4 | 45/2 WOOD | 3 | EA | \$1,037.50 | \$3,112.50 | \$2,545.20 | \$7,635.60 |
| POLE TOP ASSEMBLIES | | | | | | | |
| 5 | A1-11F | 1 | EA | \$361.05 | \$361.05 | \$245.09 | \$245.09 |
| 6 | A6-21F | 1 | EA | \$798.00 | \$798.00 | \$612.73 | \$612.73 |
| 7 | B1-41F | 1 | EA | \$532.00 | \$532.00 | \$678.72 | \$678.72 |
| 8 | C1-13F | 1 | EA | \$570.00 | \$570.00 | \$400.63 | \$400.63 |
| 9 | C1-1F | 2 | EA | \$570.00 | \$1,140.00 | \$424.20 | \$848.40 |
| 10 | C5-70 | 4 | EA | \$1,064.00 | \$4,256.00 | \$754.13 | \$3,016.52 |
| 11 | C5-71F | 2 | EA | \$950.00 | \$1,900.00 | \$593.88 | \$1,187.76 |
| 12 | C6-51F | 1 | EA | \$1,330.00 | \$1,330.00 | \$1,343.30 | \$1,343.30 |
| 13 | E7-1 | 5 | EA | \$570.00 | \$2,850.00 | \$478.40 | \$2,392.00 |
| 14 | OH E9-1 | 4 | EA | \$608.00 | \$2,432.00 | \$626.87 | \$2,507.48 |
| 15 | E9-1 | 3 | EA | \$608.00 | \$1,824.00 | \$181.46 | \$544.38 |
| 16 | DBL E9-1 XARM | 1 | EA | \$646.00 | \$646.00 | \$362.93 | \$362.93 |
| 17 | F1-1S | 7 | EA | \$304.00 | \$2,128.00 | \$369.53 | \$2,586.71 |
| 18 | J2-1 | 6 | EA | \$133.05 | \$798.30 | \$98.04 | \$588.24 |
| 19 | J3-1 | 9 | EA | \$171.05 | \$1,539.45 | \$116.42 | \$1,047.78 |
| 20 | M2-11 | 10 | EA | \$266.00 | \$2,660.00 | \$158.37 | \$1,583.70 |
| 21 | M5-10 | 1 | EA | \$171.05 | \$171.05 | \$339.36 | \$339.36 |
| 22 | M5-5 | 13 | EA | \$114.00 | \$1,482.00 | \$85.78 | \$1,115.14 |
| 23 | M5-8 | 1 | EA | \$323.05 | \$323.05 | \$339.36 | \$339.36 |

| | | | | Watts Electric Co. | | IES Commercial, Inc. | |
|-----------------------|----------------------------------|-----|----|--------------------|-------------|----------------------|-------------|
| 24 | UM8-3 | 2 | EA | \$1,710.00 | \$3,420.00 | \$1,225.47 | \$2,450.94 |
| 25 | UM8-6 | 1 | EA | \$760.00 | \$760.00 | \$1,041.65 | \$1,041.65 |
| WIRE / CONDUIT | | | | | | | |
| 26 | 600V 4/0 AL UG | 240 | FT | \$6.01 | \$1,442.40 | \$4.52 | \$1,084.80 |
| 27 | 1Ø/2W #6 DUPLEX | 83 | FT | \$7.44 | \$617.52 | \$22.44 | \$1,862.52 |
| 28 | (1) 2" BORING | 41 | FT | \$288.02 | \$11,808.82 | \$46.91 | \$1,923.31 |
| 29 | 2" HDPE, SDR 13.5 | 52 | FT | \$1.21 | \$62.92 | \$0.00 | \$0.00 |
| TRANSFERS | | | | | | | |
| 30 | 1Ø/1W PRIMARY RISER | 1 | EA | \$1,015.00 | \$1,015.00 | \$1,055.79 | \$1,055.79 |
| 31 | 3Ø/4W OH PRIMARY | 11 | EA | \$2,034.24 | \$22,376.64 | \$876.68 | \$9,643.48 |
| 32 | 2Ø/3W OH PRIMARY | 1 | EA | \$950.00 | \$950.00 | \$650.44 | \$650.44 |
| 33 | 1Ø/2W OH PRIMARY | 4 | EA | \$615.00 | \$2,460.00 | \$593.88 | \$2,375.52 |
| 34 | 1Ø/2W SUG | 1 | EA | \$580.00 | \$580.00 | \$848.40 | \$848.40 |
| 35 | COMMUNICATION/DATA LINE | 32 | EA | \$400.00 | \$12,800.00 | \$452.48 | \$14,479.36 |
| 36 | DUPLEX | 7 | EA | \$560.00 | \$3,920.00 | \$424.20 | \$2,969.40 |
| 37 | TRIPLEX | 3 | EA | \$600.00 | \$1,800.00 | \$509.04 | \$1,527.12 |
| 38 | E1-1 COMM | 8 | EA | \$580.00 | \$4,640.00 | \$554.29 | \$4,434.32 |
| 39 | JUNCTION BOX | 1 | EA | \$500.00 | \$500.00 | \$650.44 | \$650.44 |
| 40 | M5-9 | 4 | EA | \$180.00 | \$720.00 | \$271.49 | \$1,085.96 |
| 41 | PHOTOCELL | 1 | EA | \$40.00 | \$40.00 | \$197.96 | \$197.96 |
| 42 | STREET LIGHT | 5 | EA | \$600.00 | \$3,000.00 | \$707.00 | \$3,535.00 |
| 43 | UM8-3 | 1 | EA | \$800.00 | \$800.00 | \$1,131.20 | \$1,131.20 |
| 44 | UM8-6 COMMUNICATION/DATA | 1 | EA | \$520.00 | \$520.00 | \$452.48 | \$452.48 |
| REMOVALS | | | | | | | |
| 45 | 1Ø/2W DUPLEX | 46 | FT | \$7.70 | \$354.20 | \$9.80 | \$450.80 |
| 46 | 1Ø/3W SECONDARY UG SERVICE | 60 | FT | \$15.40 | \$924.00 | \$9.80 | \$588.00 |
| 47 | 1Ø PRIMARY DOUBLE DEADEND PTA | 1 | EA | \$211.75 | \$211.75 | \$353.50 | \$353.50 |
| 48 | 1Ø PRIMARY PTA | 1 | EA | \$192.50 | \$192.50 | \$212.10 | \$212.10 |
| 49 | 2Ø PRIMARY PTA | 1 | EA | \$288.75 | \$288.75 | \$273.37 | \$273.37 |
| 50 | 3Ø PRIMARY DEADEND PTA | 6 | EA | \$577.50 | \$3,465.00 | \$320.51 | \$1,923.06 |
| 51 | 3Ø PRIMARY DOUBLE DEADEND PTA | 1 | EA | \$770.00 | \$770.00 | \$377.07 | \$377.07 |

| | | | | Watts Electric Co. | | IES Commercial, Inc. | |
|--|---|----|----|--------------------|--------------|----------------------|--------------|
| 52 | 3Ø PRIMARY PTA | 3 | EA | \$385.00 | \$1,155.00 | \$226.24 | \$678.72 |
| 53 | ANCHOR | 6 | EA | \$96.25 | \$577.50 | \$207.39 | \$1,244.34 |
| 54 | DOWN GUY | 9 | EA | \$250.25 | \$2,252.25 | \$180.99 | \$1,628.91 |
| 55 | M5-5 / M5-8 / M5-10 | 19 | EA | \$96.25 | \$1,828.75 | \$82.95 | \$1,576.05 |
| 56 | OH GUY | 3 | EA | \$288.75 | \$866.25 | \$220.58 | \$661.74 |
| 57 | POLE | 10 | EA | \$577.50 | \$5,775.00 | \$1,698.68 | \$16,986.80 |
| 58 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 12 | EA | \$288.75 | \$3,465.00 | \$71.64 | \$859.68 |
| 59 | UM8-3 | 2 | EA | \$288.75 | \$577.50 | \$754.13 | \$1,508.26 |
| 60 | UM8-6 | 1 | EA | \$154.00 | \$154.00 | \$641.01 | \$641.01 |
| SUBTOTAL GROUP A | | | | | \$134,750.15 | | \$127,237.54 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP A @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$52.53 | | \$0.00 |
| TOTAL GROUP A | | | | | \$134,802.68 | | \$127,237.54 |

| GROUP B | | | | | | | |
|---------------------------|----------------------|-------|------|------------|-------------|------------|-------------|
| Item | Description | Qty. | Unit | Unit Price | Total | Unit Price | Total |
| POLES | | | | | | | |
| 1 | 40/4 WOOD | 1 | EA | \$996.00 | \$996.00 | \$2,243.55 | \$2,243.55 |
| 2 | 45/2 WOOD | 4 | EA | \$1,037.50 | \$4,150.00 | \$2,545.20 | \$10,180.80 |
| 3 | 45/3 WOOD | 4 | EA | \$1,037.50 | \$4,150.00 | \$2,545.20 | \$10,180.80 |
| POP TOP ASSEMBLIES | | | | | | | |
| 4 | C1-41F | 4 | EA | \$570.00 | \$2,280.00 | \$443.05 | \$1,772.20 |
| 5 | C5-70 | 3 | EA | \$1,064.00 | \$3,192.00 | \$754.13 | \$2,262.39 |
| 6 | C6-31F | 1 | EA | \$1,140.00 | \$1,140.00 | \$1,272.60 | \$1,272.60 |
| 7 | C6-51F | 2 | EA | \$1,330.00 | \$2,660.00 | \$1,343.30 | \$2,686.60 |
| 8 | E9-1 | 4 | EA | \$608.00 | \$2,432.00 | \$181.46 | \$725.84 |
| 9 | F1-1S | 4 | EA | \$304.00 | \$1,216.00 | \$369.53 | \$1,478.12 |
| 10 | J3-1 | 10 | EA | \$171.05 | \$1,710.50 | \$116.42 | \$1,164.20 |
| 11 | M2-11 | 8 | EA | \$266.00 | \$2,128.00 | \$158.37 | \$1,266.96 |
| 12 | M5-5 | 10 | EA | \$114.00 | \$1,140.00 | \$85.78 | \$857.80 |
| 13 | UA8-3CF | 1 | EA | \$3,230.00 | \$3,230.00 | \$2,477.33 | \$2,477.33 |
| TRANSFORMERS | | | | | | | |
| 14 | G3-1C | 1 | EA | \$1,254.00 | \$1,254.00 | \$1,809.92 | \$1,809.92 |
| WIRE / CONDUIT | | | | | | | |
| 15 | #1/0 ACSR OH PRIMARY | 1,829 | FT | \$23.92 | \$43,749.68 | \$9.21 | \$16,845.09 |

Watts Electric Co.

IES Commercial, Inc.

TRANSFERS

| | | | | | | | |
|----|----------------------------|----|----|------------|------------|------------|-------------|
| 16 | 3Ø/3W UG PRIMARY | 1 | EA | \$1,000.00 | \$1,000.00 | \$2,686.60 | \$2,686.60 |
| 17 | 3Ø/4W OH PRIMARY | 3 | EA | \$1,409.09 | \$4,227.27 | \$876.68 | \$2,630.04 |
| 18 | E1-1 COMM | 3 | EA | \$580.00 | \$1,740.00 | \$554.29 | \$1,662.87 |
| 19 | 1Ø OH TRANSFORMER | 11 | EA | \$100.00 | \$1,100.00 | \$1,791.07 | \$19,701.77 |
| 20 | G1-9B | 3 | EA | \$720.00 | \$2,160.00 | \$1,791.07 | \$5,373.21 |
| 21 | G3-1C | 2 | EA | \$1,400.00 | \$2,800.00 | \$3,699.97 | \$7,399.94 |
| 22 | J6-1 | 4 | EA | \$740.00 | \$2,960.00 | \$1,131.20 | \$4,524.80 |
| 23 | J6-1 CT | 1 | EA | \$1,100.00 | \$1,100.00 | \$1,376.29 | \$1,376.29 |
| 24 | LEADHEAD | 3 | EA | \$40.00 | \$120.00 | \$707.00 | \$2,121.00 |
| 25 | TRIPLEX | 10 | EA | \$600.00 | \$6,000.00 | \$509.04 | \$5,090.40 |
| 26 | COMMUNICATION/DATA LINE | 23 | EA | \$400.00 | \$9,200.00 | \$452.48 | \$10,407.04 |
| 27 | QUADRUPLEX | 4 | EA | \$700.00 | \$2,800.00 | \$650.44 | \$2,601.76 |
| 28 | STREET LIGHT | 3 | EA | \$600.00 | \$1,800.00 | \$707.00 | \$2,121.00 |
| 29 | UM8-4 | 1 | EA | \$800.00 | \$800.00 | \$1,187.76 | \$1,187.76 |

REMOVALS

| | | | | | | | |
|----|--|-----|----|------------|------------|------------|-------------|
| 30 | 3Ø 4 WIRE OH PRIMARY | 453 | FT | \$7.70 | \$3,488.10 | \$4.52 | \$2,047.56 |
| 31 | 1Ø/2W DUPLEX | 179 | FT | \$7.70 | \$1,378.30 | \$9.80 | \$1,754.20 |
| 32 | 3Ø/4W QUADRUPLEX | 166 | FT | \$8.47 | \$1,406.02 | \$6.79 | \$1,127.14 |
| 33 | 3Ø OH TRANSFORMER PLATFORM ASSEMBLY | 1 | EA | \$1,347.50 | \$1,347.50 | \$1,249.03 | \$1,249.03 |
| 34 | 3Ø PRIMARY DEADEND PTA | 3 | EA | \$577.50 | \$1,732.50 | \$320.51 | \$961.53 |
| 35 | 3Ø PRIMARY DOUBLE DEADEND PTA | 3 | EA | \$770.00 | \$2,310.00 | \$377.07 | \$1,131.21 |
| 36 | 3Ø PRIMARY PTA | 5 | EA | \$385.00 | \$1,925.00 | \$226.24 | \$1,131.20 |
| 37 | 3Ø/3W PRIMARY RISER | 1 | EA | \$866.25 | \$866.25 | \$622.16 | \$622.16 |
| 38 | ANCHOR | 1 | EA | \$96.25 | \$96.25 | \$207.39 | \$207.39 |
| 39 | DOWN GUY | 3 | EA | \$250.25 | \$750.75 | \$180.99 | \$542.97 |
| 40 | DUPLEX | 7 | EA | \$288.75 | \$2,021.25 | \$245.09 | \$1,715.63 |
| 41 | M5-4 | 1 | EA | \$57.75 | \$57.75 | \$33.94 | \$33.94 |
| 42 | M5-5 / M5-8 / M5-10 | 4 | EA | \$96.25 | \$385.00 | \$82.95 | \$331.80 |
| 43 | POLE | 10 | EA | \$577.50 | \$5,775.00 | \$1,698.68 | \$16,986.80 |

| | | | | Watts Electric Co. | | IES Commercial, Inc. | |
|--|---|----|----|--------------------|--------------|----------------------|--------------|
| 44 | QUADRUPLEX | 6 | EA | \$327.25 | \$1,963.50 | \$301.65 | \$1,809.90 |
| 45 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 18 | EA | \$288.75 | \$5,197.50 | \$71.64 | \$1,289.52 |
| 46 | TRIPLEX CONNECTION | 1 | EA | \$211.75 | \$211.75 | \$263.95 | \$263.95 |
| SUBTOTAL GROUP B | | | | | \$144,147.87 | | \$159,314.61 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP B @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$0.00 | | \$0.00 |
| TOTAL GROUP B | | | | | \$144,147.87 | | \$159,314.61 |

| GROUP C | | | | | | | |
|---|--|-------|------|------------|-------------|------------|-------------|
| Item | Description | Qty. | Unit | Unit Price | Total | Unit Price | Total |
| POLES | | | | | | | |
| 1 | 40/2 WOOD | 2 | EA | \$996.00 | \$1,992.00 | \$2,243.55 | \$4,487.10 |
| POP TOP ASSEMBLIES | | | | | | | |
| 2 | C1-13F | 1 | EA | \$570.00 | \$570.00 | \$400.63 | \$400.63 |
| 3 | C5-71F | 2 | EA | \$950.00 | \$1,900.00 | \$593.88 | \$1,187.76 |
| 4 | E9-1 | 4 | EA | \$608.00 | \$2,432.00 | \$181.46 | \$725.84 |
| 5 | F1-1S | 4 | EA | \$304.00 | \$1,216.00 | \$369.53 | \$1,478.12 |
| 6 | M2-11 | 3 | EA | \$266.00 | \$798.00 | \$158.37 | \$475.11 |
| 7 | UA8-3CF | 2 | EA | \$3,230.00 | \$6,460.00 | \$2,477.33 | \$4,954.66 |
| UNDERGROUND DISTRIBUTION MATERIALS | | | | | | | |
| 8 | 10 KV (8.4 KV MCOV) ELBOW ARRESTER | 3 | EA | \$83.00 | \$249.00 | \$70.70 | \$212.10 |
| 9 | 15 KV 200A ELBOW, 1/0 AL | 3 | EA | \$166.00 | \$498.00 | \$777.70 | \$2,333.10 |
| 10 | 15KV CABLE TERMINATION WITH TWO HOLE SPADE, 1/0 AL | 3 | EA | \$186.75 | \$560.25 | \$820.12 | \$2,460.36 |
| 11 | 15KV CABLE TERMINATION WITH TWO HOLE SPADE, 500 MCM AL | 6 | EA | \$269.75 | \$1,618.50 | \$362.54 | \$2,175.24 |
| 12 | PAD MOUNT SWITCHGEAR GROUND ASSEMBLY | 1 | EA | \$622.50 | \$622.50 | \$3,393.60 | \$3,393.60 |
| 13 | PMH-9 WITH BASEMENT | 1 | EA | \$4,042.50 | \$4,042.50 | \$2,390.60 | \$2,390.60 |
| TRANSFORMERS | | | | | | | |
| 14 | 112.5 kVA, 3Ø, PAD-MOUNT TRANSFORMER | 1 | EA | \$1,660.00 | \$1,660.00 | \$2,413.23 | \$2,413.23 |
| 15 | TRANSFORMER BASEMENT, 3Ø | 1 | EA | \$1,867.50 | \$1,867.50 | \$1,860.82 | \$1,860.82 |
| 16 | TRANSFORMER GROUND ASSEMBLY, 3Ø | 1 | EA | \$518.75 | \$518.75 | \$392.15 | \$392.15 |
| WIRE / CONDUIT | | | | | | | |
| 17 | 1/0 AL UG, 15 kV FN | 552 | FT | \$7.44 | \$4,106.88 | \$3.39 | \$1,871.28 |
| 18 | 500 MCM AL UG, 15kV 1/3 NEUTRAL | 1,710 | FT | \$8.00 | \$13,680.00 | \$7.35 | \$12,568.50 |
| 19 | 2" LONG RADIUS SWEEP/ELBOW | 9 | EA | \$100.05 | \$900.45 | \$355.60 | \$3,200.40 |
| 20 | 2" EXPANSION JOINT | 1 | EA | \$80.00 | \$80.00 | \$201.37 | \$201.37 |
| 21 | 3" LONG RADIUS SWEEP/ELBOW | 21 | EA | \$120.00 | \$2,520.00 | \$462.70 | \$9,716.70 |

| | | | | Watts Electric Co. | | IES Commercial, Inc. | |
|--|---|-------|----|--------------------|--------------|----------------------|--------------|
| 22 | 600V #6 AL UG | 483 | FT | \$6.44 | \$3,110.52 | \$2.83 | \$1,366.89 |
| 23 | 600V 4/0 AL UG | 588 | FT | \$6.01 | \$3,533.88 | \$4.52 | \$2,657.76 |
| 24 | 2" RMC SECONDARY RISER CONDUIT | 25 | FT | \$13.05 | \$326.25 | \$0.00 | \$0.00 |
| 25 | (1) 2" BORING | 221 | FT | \$56.55 | \$12,497.55 | \$46.91 | \$10,367.11 |
| 26 | (3) 2" BORING | 154 | FT | \$71.97 | \$11,083.38 | \$46.91 | \$7,224.14 |
| 27 | 2" HDPE, SDR 13.5 | 791 | FT | \$1.21 | \$957.11 | \$0.00 | \$0.00 |
| 28 | (3) 3" HDPE BORING | 510 | FT | \$78.44 | \$40,004.40 | \$65.12 | \$33,211.20 |
| 29 | 3" HDPE, SDR 13.5 | 1,614 | FT | \$1.21 | \$1,952.94 | \$0.00 | \$0.00 |
| TRANSFERS | | | | | | | |
| 30 | 3Ø/4W UG SEC | 2 | EA | \$700.00 | \$1,400.00 | \$2,064.44 | \$4,128.88 |
| 31 | 3Ø/4W OH PRIMARY | 2 | EA | \$2,100.00 | \$4,200.00 | \$876.68 | \$1,753.36 |
| 32 | COMMUNICATION/DATA LINE | 3 | EA | \$400.00 | \$1,200.00 | \$452.48 | \$1,357.44 |
| 33 | S2-1 | 6 | EA | \$300.00 | \$1,800.00 | \$384.61 | \$2,307.66 |
| 34 | Y3-3 | 1 | EA | \$3,000.00 | \$3,000.00 | \$2,156.82 | \$2,156.82 |
| REMOVALS | | | | | | | |
| 35 | 3Ø 4 WIRE OH PRIMARY | 478 | FT | \$7.70 | \$3,680.60 | \$4.52 | \$2,160.56 |
| 36 | 1Ø/3W TRIPLEX | 100 | FT | \$7.70 | \$770.00 | \$5.28 | \$528.00 |
| 37 | 3Ø/4W QUADRUPLEX | 80 | FT | \$7.70 | \$616.00 | \$6.79 | \$543.20 |
| 38 | OH TRANSFORMER | 3 | EA | \$327.25 | \$981.75 | \$573.14 | \$1,719.42 |
| 39 | 3Ø OH TRANSFORMER PLATFORM ASSEMBLY | 1 | EA | \$1,347.50 | \$1,347.50 | \$1,249.03 | \$1,249.03 |
| 40 | 3Ø PRIMARY PTA | 2 | EA | \$385.00 | \$770.00 | \$226.24 | \$452.48 |
| 41 | ANCHOR | 1 | EA | \$96.25 | \$96.25 | \$207.39 | \$207.39 |
| 42 | DOWN GUY | 2 | EA | \$250.25 | \$500.50 | \$180.99 | \$361.98 |
| 43 | H-STRUCTURE PRIMARY PTA | 2 | EA | \$770.00 | \$1,540.00 | \$1,390.43 | \$2,780.86 |
| 44 | UM8-6 | 2 | EA | \$154.00 | \$308.00 | \$641.01 | \$1,282.02 |
| 45 | J6-1 | 1 | EA | \$327.25 | \$327.25 | \$377.07 | \$377.07 |
| 46 | POLE | 4 | EA | \$577.50 | \$2,310.00 | \$1,698.68 | \$6,794.72 |
| 47 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 6 | EA | \$288.75 | \$1,732.50 | \$71.64 | \$429.84 |
| SUBTOTAL GROUP C | | | | | \$148,338.71 | | \$144,316.50 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP C @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$22.88 | | \$0.00 |
| TOTAL GROUP C | | | | | \$148,361.59 | | \$144,316.50 |
| TOTAL ALL GROUPS A, B, & C | | | | | \$427,312.14 | | \$430,868.65 |



Tab Sheet

PROJECT | 2026 Electrical Distribution Improvements

JEO PROJECT NO. | 260990.00

LOCATION | David City, NE

Altitude Energy, LLC

| GROUP A | | | | | |
|----------------------------|---------------|------|------|------------|-------------|
| Item | Description | Qty. | Unit | Unit Price | Total |
| POLES | | | | | |
| 1 | 35/3 WOOD | 4 | EA | \$4,000.00 | \$16,000.00 |
| 2 | 40/2 WOOD | 2 | EA | \$4,000.00 | \$8,000.00 |
| 3 | 40/3 WOOD | 1 | EA | \$4,000.00 | \$4,000.00 |
| 4 | 45/2 WOOD | 3 | EA | \$4,000.00 | \$12,000.00 |
| POLE TOP ASSEMBLIES | | | | | |
| 5 | A1-11F | 1 | EA | \$1,000.00 | \$1,000.00 |
| 6 | A6-21F | 1 | EA | \$1,000.00 | \$1,000.00 |
| 7 | B1-41F | 1 | EA | \$2,000.00 | \$2,000.00 |
| 8 | C1-13F | 1 | EA | \$3,000.00 | \$3,000.00 |
| 9 | C1-1F | 2 | EA | \$3,000.00 | \$6,000.00 |
| 10 | C5-70 | 4 | EA | \$3,750.00 | \$15,000.00 |
| 11 | C5-71F | 2 | EA | \$3,750.00 | \$7,500.00 |
| 12 | C6-51F | 1 | EA | \$3,750.00 | \$3,750.00 |
| 13 | E7-1 | 5 | EA | \$500.00 | \$2,500.00 |
| 14 | OH E9-1 | 4 | EA | \$500.00 | \$2,000.00 |
| 15 | E9-1 | 3 | EA | \$250.00 | \$750.00 |
| 16 | DBL E9-1 XARM | 1 | EA | \$500.00 | \$500.00 |
| 17 | F1-1S | 7 | EA | \$500.00 | \$3,500.00 |
| 18 | J2-1 | 6 | EA | \$50.00 | \$300.00 |
| 19 | J3-1 | 9 | EA | \$50.00 | \$450.00 |
| 20 | M2-11 | 10 | EA | \$150.00 | \$1,500.00 |
| 21 | M5-10 | 1 | EA | \$200.00 | \$200.00 |
| 22 | M5-5 | 13 | EA | \$200.00 | \$2,600.00 |
| 23 | M5-8 | 1 | EA | \$1,250.00 | \$1,250.00 |

| | | | | Altitude Energy, LLC | |
|-----------------------|----------------------------------|-----|----|----------------------|-------------|
| 24 | UM8-3 | 2 | EA | \$2,500.00 | \$5,000.00 |
| 25 | UM8-6 | 1 | EA | \$2,500.00 | \$2,500.00 |
| WIRE / CONDUIT | | | | | |
| 26 | 600V 4/0 AL UG | 240 | FT | \$20.00 | \$4,800.00 |
| 27 | 1Ø/2W #6 DUPLEX | 83 | FT | \$20.00 | \$1,660.00 |
| 28 | (1) 2" BORING | 41 | FT | \$100.00 | \$4,100.00 |
| 29 | 2" HDPE, SDR 13.5 | 52 | FT | \$12.00 | \$624.00 |
| TRANSFERS | | | | | |
| 30 | 1Ø/1W PRIMARY RISER | 1 | EA | \$2,500.00 | \$2,500.00 |
| 31 | 3Ø/4W OH PRIMARY | 11 | EA | \$2,000.00 | \$22,000.00 |
| 32 | 2Ø/3W OH PRIMARY | 1 | EA | \$1,250.00 | \$1,250.00 |
| 33 | 1Ø/2W OH PRIMARY | 4 | EA | \$1,000.00 | \$4,000.00 |
| 34 | 1Ø/2W SUG | 1 | EA | \$1,000.00 | \$1,000.00 |
| 35 | COMMUNICATION/DATA LINE | 32 | EA | \$350.00 | \$11,200.00 |
| 36 | DUPLEX | 7 | EA | \$350.00 | \$2,450.00 |
| 37 | TRIPLEX | 3 | EA | \$350.00 | \$1,050.00 |
| 38 | E1-1 COMM | 8 | EA | \$350.00 | \$2,800.00 |
| 39 | JUNCTION BOX | 1 | EA | \$350.00 | \$350.00 |
| 40 | M5-9 | 4 | EA | \$200.00 | \$800.00 |
| 41 | PHOTOCELL | 1 | EA | \$250.00 | \$250.00 |
| 42 | STREET LIGHT | 5 | EA | \$350.00 | \$1,750.00 |
| 43 | UM8-3 | 1 | EA | \$2,500.00 | \$2,500.00 |
| 44 | UM8-6 COMMUNICATION/DATA | 1 | EA | \$2,500.00 | \$2,500.00 |
| REMOVALS | | | | | |
| 45 | 1Ø/2W DUPLEX | 46 | FT | \$20.00 | \$920.00 |
| 46 | 1Ø/3W SECONDARY UG SERVICE | 60 | FT | \$15.00 | \$900.00 |
| 47 | 1Ø PRIMARY DOUBLE DEADEND PTA | 1 | EA | \$750.00 | \$750.00 |
| 48 | 1Ø PRIMARY PTA | 1 | EA | \$250.00 | \$250.00 |
| 49 | 2Ø PRIMARY PTA | 1 | EA | \$500.00 | \$500.00 |
| 50 | 3Ø PRIMARY DEADEND PTA | 6 | EA | \$1,000.00 | \$6,000.00 |
| 51 | 3Ø PRIMARY DOUBLE DEADEND PTA | 1 | EA | \$1,250.00 | \$1,250.00 |

| | | | | Altitude Energy, LLC | |
|--|---|-------|------|----------------------|---------------------|
| 52 | 3Ø PRIMARY PTA | 3 | EA | \$1,000.00 | \$3,000.00 |
| 53 | ANCHOR | 6 | EA | \$350.00 | \$2,100.00 |
| 54 | DOWN GUY | 9 | EA | \$150.00 | \$1,350.00 |
| 55 | M5-5 / M5-8 / M5-10 | 19 | EA | \$100.00 | \$1,900.00 |
| 56 | OH GUY | 3 | EA | \$200.00 | \$600.00 |
| 57 | POLE | 10 | EA | \$1,000.00 | \$10,000.00 |
| 58 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 12 | EA | \$50.00 | \$600.00 |
| 59 | UM8-3 | 2 | EA | \$1,000.00 | \$2,000.00 |
| 60 | UM8-6 | 1 | EA | \$1,000.00 | \$1,000.00 |
| SUBTOTAL GROUP A | | | | | \$203,004.00 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP A @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$15,221.55 |
| TOTAL GROUP A | | | | | \$218,225.55 |
| GROUP B | | | | | |
| Item | Description | Qty. | Unit | Unit Price | Total |
| POLES | | | | | |
| 1 | 40/4 WOOD | 1 | EA | \$4,000.00 | \$4,000.00 |
| 2 | 45/2 WOOD | 4 | EA | \$4,000.00 | \$16,000.00 |
| 3 | 45/3 WOOD | 4 | EA | \$4,000.00 | \$16,000.00 |
| POP TOP ASSEMBLIES | | | | | |
| 4 | C1-41F | 4 | EA | \$3,000.00 | \$12,000.00 |
| 5 | C5-70 | 3 | EA | \$3,750.00 | \$11,250.00 |
| 6 | C6-31F | 1 | EA | \$3,750.00 | \$3,750.00 |
| 7 | C6-51F | 2 | EA | \$3,750.00 | \$7,500.00 |
| 8 | E9-1 | 4 | EA | \$250.00 | \$1,000.00 |
| 9 | F1-1S | 4 | EA | \$500.00 | \$2,000.00 |
| 10 | J3-1 | 10 | EA | \$50.00 | \$500.00 |
| 11 | M2-11 | 8 | EA | \$150.00 | \$1,200.00 |
| 12 | M5-5 | 10 | EA | \$200.00 | \$2,000.00 |
| 13 | UA8-3CF | 1 | EA | \$2,500.00 | \$2,500.00 |
| TRANSFORMERS | | | | | |
| 14 | G3-1C | 1 | EA | \$500.00 | \$500.00 |
| WIRE / CONDUIT | | | | | |
| 15 | #1/0 ACSR OH PRIMARY | 1,829 | FT | \$12.00 | \$21,948.00 |

TRANSFERS

| | | | | | |
|----|----------------------------|----|----|------------|------------|
| 16 | 3Ø/3W UG PRIMARY | 1 | EA | \$2,500.00 | \$2,500.00 |
| 17 | 3Ø/4W OH PRIMARY | 3 | EA | \$2,000.00 | \$6,000.00 |
| 18 | E1-1 COMM | 3 | EA | \$350.00 | \$1,050.00 |
| 19 | 1Ø OH TRANSFORMER | 11 | EA | \$750.00 | \$8,250.00 |
| 20 | G1-9B | 3 | EA | \$750.00 | \$2,250.00 |
| 21 | G3-1C | 2 | EA | \$750.00 | \$1,500.00 |
| 22 | J6-1 | 4 | EA | \$50.00 | \$200.00 |
| 23 | J6-1 CT | 1 | EA | \$50.00 | \$50.00 |
| 24 | LEADHEAD | 3 | EA | \$50.00 | \$150.00 |
| 25 | TRIPLEX | 10 | EA | \$350.00 | \$3,500.00 |
| 26 | COMMUNICATION/DATA LINE | 23 | EA | \$350.00 | \$8,050.00 |
| 27 | QUADRUPLEX | 4 | EA | \$350.00 | \$1,400.00 |
| 28 | STREET LIGHT | 3 | EA | \$350.00 | \$1,050.00 |
| 29 | UM8-4 | 1 | EA | \$2,500.00 | \$2,500.00 |

REMOVALS

| | | | | | |
|----|--|-----|----|------------|-------------|
| 30 | 3Ø 4 WIRE OH PRIMARY | 453 | FT | \$10.00 | \$4,530.00 |
| 31 | 1Ø/2W DUPLEX | 179 | FT | \$10.00 | \$1,790.00 |
| 32 | 3Ø/4W QUADRUPLEX | 166 | FT | \$20.00 | \$3,320.00 |
| 33 | 3Ø OH TRANSFORMER PLATFORM ASSEMBLY | 1 | EA | \$2,000.00 | \$2,000.00 |
| 34 | 3Ø PRIMARY DEADEND PTA | 3 | EA | \$1,000.00 | \$3,000.00 |
| 35 | 3Ø PRIMARY DOUBLE DEADEND PTA | 3 | EA | \$1,250.00 | \$3,750.00 |
| 36 | 3Ø PRIMARY PTA | 5 | EA | \$1,000.00 | \$5,000.00 |
| 37 | 3Ø/3W PRIMARY RISER | 1 | EA | \$1,000.00 | \$1,000.00 |
| 38 | ANCHOR | 1 | EA | \$350.00 | \$350.00 |
| 39 | DOWN GUY | 3 | EA | \$150.00 | \$450.00 |
| 40 | DUPLEX | 7 | EA | \$500.00 | \$3,500.00 |
| 41 | M5-4 | 1 | EA | \$100.00 | \$100.00 |
| 42 | M5-5 / M5-8 / M5-10 | 4 | EA | \$100.00 | \$400.00 |
| 43 | POLE | 10 | EA | \$1,000.00 | \$10,000.00 |

| | | | | Altitude Energy, LLC | |
|--|--|-------|------|----------------------|--------------|
| 44 | QUADRUPLEX | 6 | EA | \$500.00 | \$3,000.00 |
| 45 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 18 | EA | \$50.00 | \$900.00 |
| 46 | TRIPLEX CONNECTION | 1 | EA | \$250.00 | \$250.00 |
| SUBTOTAL GROUP B | | | | | \$183,938.00 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP B @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$13,795.35 |
| TOTAL GROUP B | | | | | \$197,733.35 |
| GROUP C | | | | | |
| Item | Description | Qty. | Unit | Unit Price | Total |
| POLES | | | | | |
| 1 | 40/2 WOOD | 2 | EA | \$4,000.00 | \$8,000.00 |
| POP TOP ASSEMBLIES | | | | | |
| 2 | C1-13F | 1 | EA | \$3,000.00 | \$3,000.00 |
| 3 | C5-71F | 2 | EA | \$3,750.00 | \$7,500.00 |
| 4 | E9-1 | 4 | EA | \$250.00 | \$1,000.00 |
| 5 | F1-1S | 4 | EA | \$500.00 | \$2,000.00 |
| 6 | M2-11 | 3 | EA | \$150.00 | \$450.00 |
| 7 | UA8-3CF | 2 | EA | \$2,500.00 | \$5,000.00 |
| UNDERGROUND DISTRIBUTION MATERIALS | | | | | |
| 8 | 10 KV (8.4 KV MCOV) ELBOW ARRESTER | 3 | EA | \$1,000.00 | \$3,000.00 |
| 9 | 15 KV 200A ELBOW, 1/0 AL | 3 | EA | \$2,000.00 | \$6,000.00 |
| 10 | 15KV CABLE TERMINATION WITH TWO HOLE SPADE, 1/0 AL | 3 | EA | \$2,250.00 | \$6,750.00 |
| 11 | 15KV CABLE TERMINATION WITH TWO HOLE SPADE, 500 MCM AL | 6 | EA | \$2,250.00 | \$13,500.00 |
| 12 | PAD MOUNT SWITCHGEAR GROUND ASSEMBLY | 1 | EA | \$350.00 | \$350.00 |
| 13 | PMH-9 WITH BASEMENT | 1 | EA | \$8,000.00 | \$8,000.00 |
| TRANSFORMERS | | | | | |
| 14 | 112.5 kVA, 3Ø, PAD-MOUNT TRANSFORMER | 1 | EA | \$5,750.00 | \$5,750.00 |
| 15 | TRANSFORMER BASEMENT, 3Ø | 1 | EA | \$2,250.00 | \$2,250.00 |
| 16 | TRANSFORMER GROUND ASSEMBLY, 3Ø | 1 | EA | \$350.00 | \$350.00 |
| WIRE / CONDUIT | | | | | |
| 17 | 1/0 AL UG, 15 KV FN | 552 | FT | \$21.00 | \$11,592.00 |
| 18 | 500 MCM AL UG, 15kV 1/3 NEUTRAL | 1,710 | FT | \$22.00 | \$37,620.00 |
| 19 | 2" LONG RADIUS SWEEP/ELBOW | 9 | EA | \$150.00 | \$1,350.00 |
| 20 | 2" EXPANSION JOINT | 1 | EA | \$150.00 | \$150.00 |
| 21 | 3" LONG RADIUS SWEEP/ELBOW | 21 | EA | \$150.00 | \$3,150.00 |

| | | | | Altitude Energy, LLC | |
|--|---|-------|----|----------------------|--------------|
| 22 | 600V #6 AL UG | 483 | FT | \$11.00 | \$5,313.00 |
| 23 | 600V 4/0 AL UG | 588 | FT | \$11.00 | \$6,468.00 |
| 24 | 2" RMC SECONDARY RISER CONDUIT | 25 | FT | \$20.00 | \$500.00 |
| 25 | (1) 2" BORING | 221 | FT | \$60.00 | \$13,260.00 |
| 26 | (3) 2" BORING | 154 | FT | \$75.00 | \$11,550.00 |
| 27 | 2" HDPE, SDR 13.5 | 791 | FT | \$12.00 | \$9,492.00 |
| 28 | (3) 3" HDPE BORING | 510 | FT | \$90.00 | \$45,900.00 |
| 29 | 3" HDPE, SDR 13.5 | 1,614 | FT | \$12.00 | \$19,368.00 |
| TRANSFERS | | | | | |
| 30 | 3Ø/4W UG SEC | 2 | EA | \$3,000.00 | \$6,000.00 |
| 31 | 3Ø/4W OH PRIMARY | 2 | EA | \$3,000.00 | \$6,000.00 |
| 32 | COMMUNICATION/DATA LINE | 3 | EA | \$3,000.00 | \$9,000.00 |
| 33 | S2-1 | 6 | EA | \$500.00 | \$3,000.00 |
| 34 | Y3-3 | 1 | EA | \$3,500.00 | \$3,500.00 |
| REMOVALS | | | | | |
| 35 | 3Ø 4 WIRE OH PRIMARY | 478 | FT | \$10.00 | \$4,780.00 |
| 36 | 1Ø/3W TRIPLEX | 100 | FT | \$10.00 | \$1,000.00 |
| 37 | 3Ø/4W QUADRUPLX | 80 | FT | \$10.00 | \$800.00 |
| 38 | OH TRANSFORMER | 3 | EA | \$500.00 | \$1,500.00 |
| 39 | 3Ø OH TRANSFORMER PLATFORM ASSEMBLY | 1 | EA | \$2,000.00 | \$2,000.00 |
| 40 | 3Ø PRIMARY PTA | 2 | EA | \$1,000.00 | \$2,000.00 |
| 41 | ANCHOR | 1 | EA | \$350.00 | \$350.00 |
| 42 | DOWN GUY | 2 | EA | \$150.00 | \$300.00 |
| 43 | H-STRUCTURE PRIMARY PTA | 2 | EA | \$3,500.00 | \$7,000.00 |
| 44 | UM8-6 | 2 | EA | \$1,000.00 | \$2,000.00 |
| 45 | J6-1 | 1 | EA | \$50.76 | \$50.76 |
| 46 | POLE | 4 | EA | \$996.00 | \$3,984.00 |
| 47 | SECONDARY ASSEMBLY (EYEBOLT, J1-1, J2-1, J5-1, J5-1A) | 6 | EA | \$50.00 | \$300.00 |
| SUBTOTAL GROUP C | | | | | \$292,177.76 |
| SALES TAX FOR MATERIALS & EQUIPMENT ON GROUP C @ 7.5% (SHOWN SEPARATELY BY OPTION 1 CONTRACTORS ONLY) | | | | | \$21,913.34 |
| TOTAL GROUP C | | | | | \$314,091.10 |
| TOTAL ALL GROUPS A, B, & C | | | | | \$730,050.00 |



SOS ServicesSM Report

System Optimization ServicesSM (SOS)

Water Solutions

Report #12620182SOS
April 22, 2026

Prepared for:
Garratt-Callahan Company
50 Ingold Rd Burlingame, CA 94010
UNITED STATES

Completed by:
Water Solutions

KAM Contact

TS&D Contact
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Membrane Sample Background

Two FILMTEC™ SOAR 3000i elements were received at our site in Minneapolis, MN, USA on March 24, 2026, under Service Request #12620182SOS. The element S/Ns were J4725043, J4725065. These originally shipped from our manufacturing site on August 14, 2024, and were shipped dry. As a result, no original production test data is available. The purpose of the return is to determine the root cause of the problems observed in the plant by the customer.

1. Physical Inspection of the Element

The elements were inspected on arrival.

J4725043 - Dirty feed endcap, fouled brinseal, discolored feed and concentrate scroll ends, fouled fiberglass body.

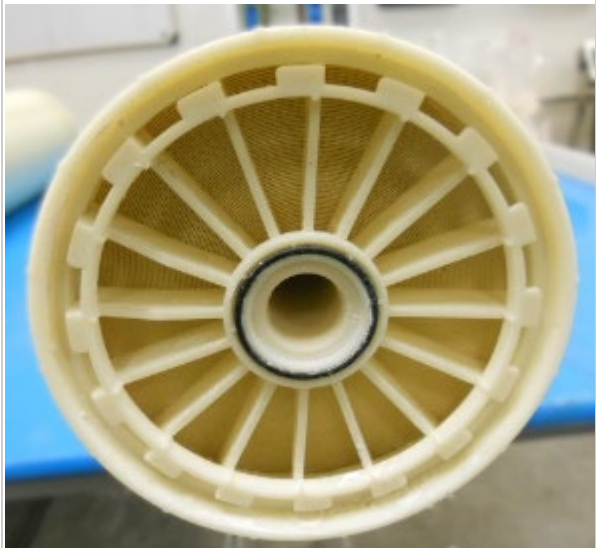
J4725065 - Dirty, fouled, bent spoke on the feed endcap, fouled concentrate endcap, fouled brinseal and O-ring, discolored feed end scrolls and discolored and fouled concentrate scroll, fouled feed and concentrate PWT's, heavily fouled fiberglass body.

| Overall appearance | Discolored feed end scroll on J4725043 |
|---|--|
|  |  |
| Dirty feed endcap, fouled brinseal on J4725043 | Discolored concentrate scroll on J4725043 |
|  |  |

Fouled fiberglass body on J4725043



Discolored feed end scroll on J4725065



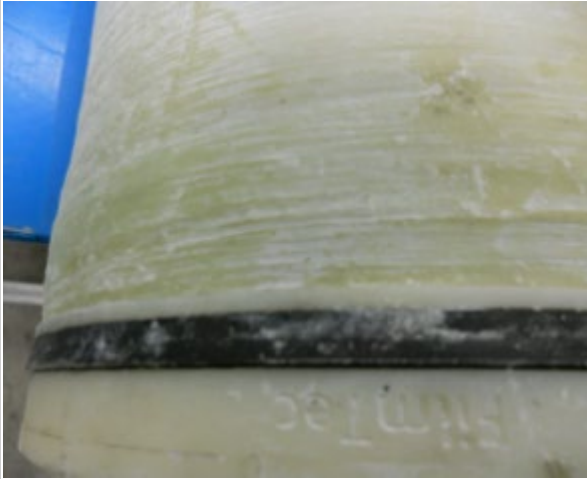
Bent spoke on the feed endcap on J4725065



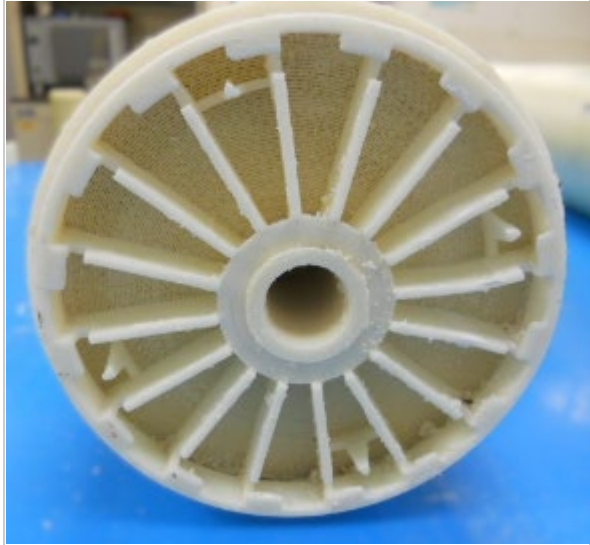
Fouled feed end PWT and o-ring on J4725065



Fouled and dirty feed endcap, fouled brines seal on J4725065



Discolored and fouled concentrate scroll end on J4725065



Fouled PWT, endcap on the concentrate end on J4725065



Fouled fiberglass body on J4725065



Acid reacted when applied to the foulant on the fiberglass body on J4725065



2. Performance Testing

| General Information | | | As Produced | | Returned Element | | |
|---------------------|--------------|--------|--------------------|-------------|--------------------|-------------|---------------|
| Serial Number | Date Shipped | Weight | Product Flow (GPD) | Rejection % | Product Flow (GPD) | Rejection % | Delta P (PSI) |
| J4725043 | 8/14/2024 | 32 | 0 | 0 | 7332.9 | 99.39 | 3.1 |
| J4725065 | 8/14/2024 | 55.7 | 0 | 0 | 0 | 0 | 0 |

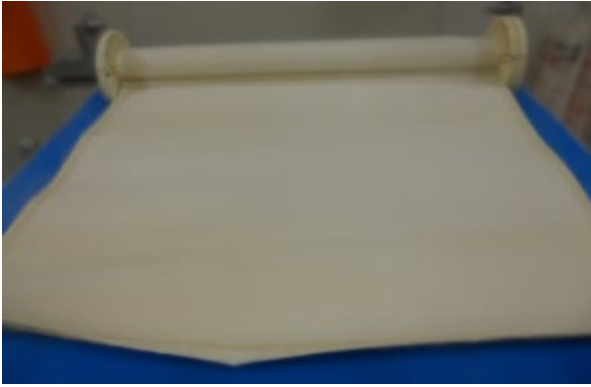
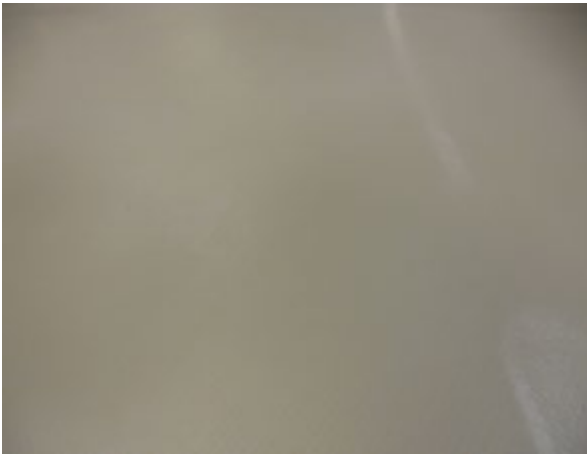


J4725043 was subjected to the MgSO₄ water baseline test. This test uses a 2,000-ppm MgSO₄ solution at 77 F with an applied pressure of 100 psi.







1. The above values are normalized to the following conditions: 2000 ppm MgSO₄, 100 psi (6.9 bar), 77F (25C), pH 8 and 20% recovery.
2. Permeate flows for individual elements may vary but will be no more than 15% below the value shown.
3. Minimum MgSO₄ rejection is 98.9%, stabilized rejection is 99.4%.
4. Minimum weight:26 lbs. dry, maximum weight:36 lbs. Wet.
5. Element J4725065 was not tested due to the weight and amount of fouling that was present on the element.

Datasheet values are Max/Min Product Flow (GPD), Minimum Rejection (%), Max/Min Weight (lb., kg). These test results indicate that the permeate flow is low and that the rejection was below the stabilized value, but still within the minimum values.

3. Autopsy Summary

The fiberglass outer wrap was removed from both elements in order to inspect the brine channel spacer and the membrane surfaces. The membrane surface on J4725043 was coated with a brown fouling material, and J4725065 was heavily coated with a white foulant which was also trapped in the feed spacer, the leaves were stuck together causing the membrane to tear. No problems were reported with the Brine channel spacer. Both acid and caustic were applied to the foulant in order to determine whether it could be removed. The acid appeared to slightly remove the foulant from J4725043, and both the acid and caustic slightly removed the foulant, with a reaction being seen with the acid which could indicate that CaCO_3 is present from a visual perspective. Glue adhesion of the membrane was in good order, indicating that no leaks had occurred between membrane edges.

| Surface appearance on J4725043 | Close up of the surface on J4725043 |
|---|--|
|  |  |
| Surface appearance after the foulant was scraped on J4725043 | Scraped foulant on J4725043 |
|  |  |

| | |
|---|--|
| <p>Surface appearance after the acid was rinsed away on J4725043</p> | <p>Surface appearance on J4725065</p> |
|  |  |
| <p>Close up of the surface on J4725065</p> | <p>Surface appearance after the foulant was scraped on J4725065</p> |
|  |  |
| <p>Scraped foulant on J4725065</p> | <p>Foulant trapped in feed spacer and membrane tattering on J4725065</p> |
|  |  |

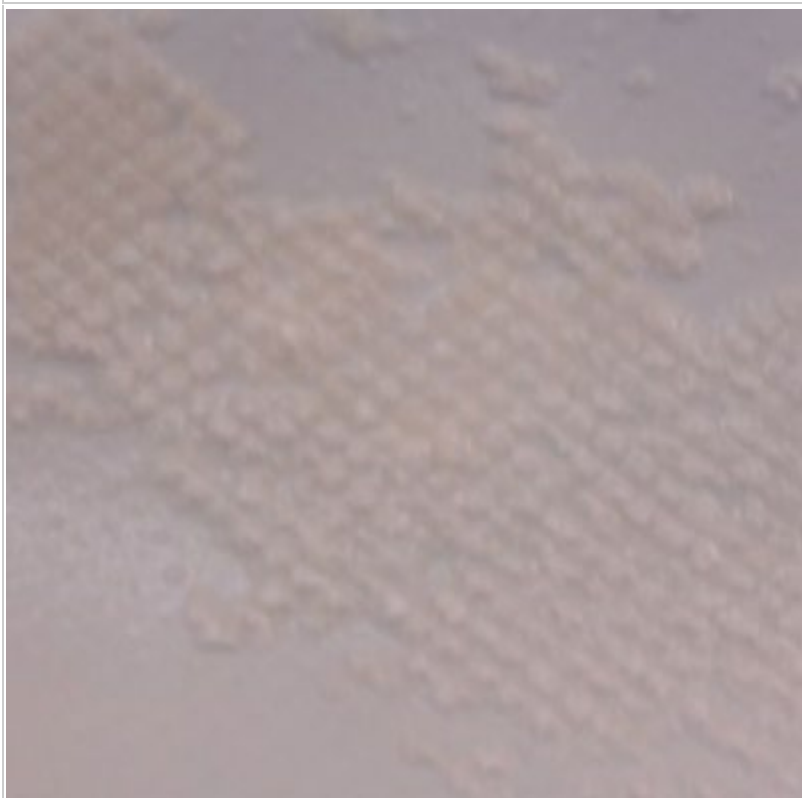
Surface appearance after the caustic was rinsed away on J4725065



Acid showed a reaction when applied to the fouling layer on J4725065



Surface appearance after the acid was rinsed away on
J4725065



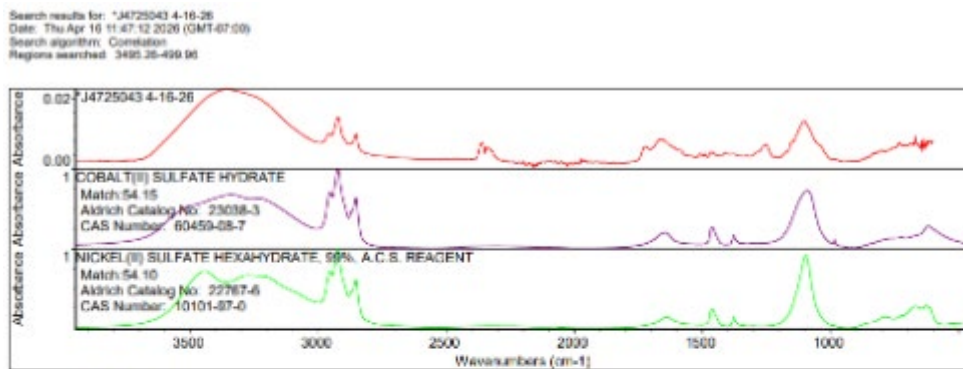
4. Analytical results

4.1. GC-MS/FTIR Test

A foulant sample was removed from element S/Ns J4725043 and J4725065 and analyzed using FTIR/GC-MS.

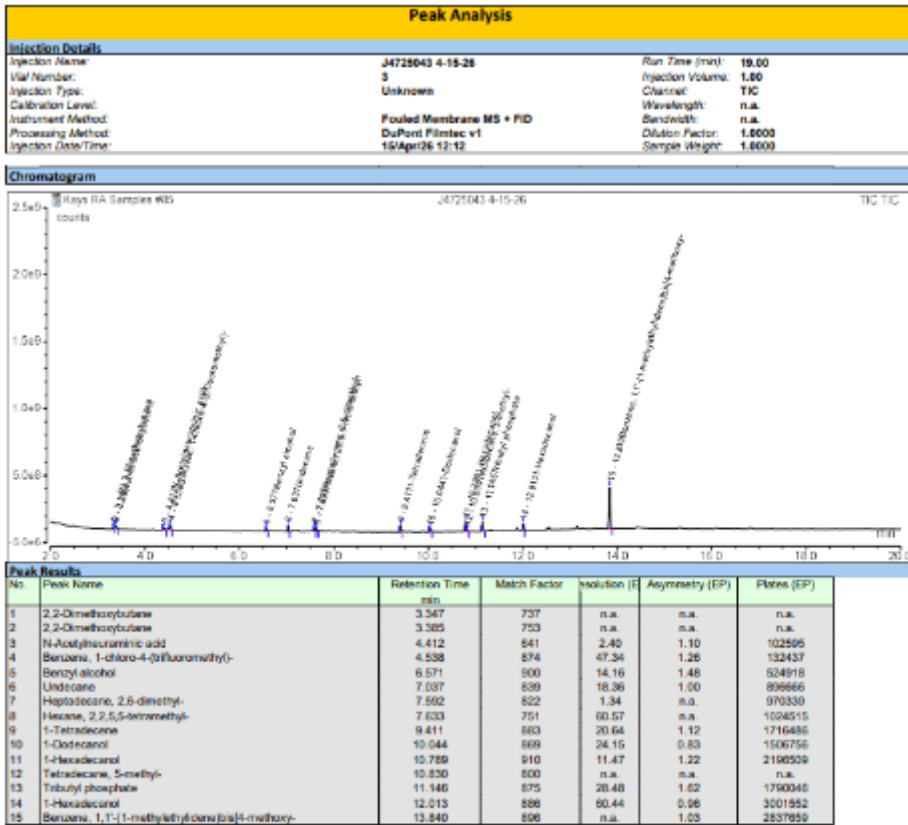
J4725043 - It appears there are several possible sources of poor performance on the membrane, Surfactants, Emulsifier's, oils and Wax. GCMS results show the presence of Surfactants and Emulsifiers such as Benzyl alcohol, Undecane and 1-Dodecanol. Synthetic Oil(1-Tetradecene) and Synthetic wax as 1-Hexadecanol. FTIR Results show Inconclusive data. GCMS Peaks of Note: Benzyl alcohol 6.571 min Undecane 7.037 min 1-Tetradecene 9.411 min 1-Dodecanol 10.044 min 1-Hexadecanol 10.789 min and 12.013 min J4725065 - Not much going on here, it does appear there are some possible sources of poor performance on the membrane, Surfactants, Emulsifiers and Synthetic Wax. GCMS results show the presence of Surfactants and Emulsifiers such 1-Dodecanol. Synthetic wax is 1-Hexadecanol. FTIR Results show Inconclusive data. GCMS Peaks of Note 1-Dodecanol 10.044 min 1-Hexadecanol 10.789 and 12.013 min FTIR Library matches: Inconclusive data FTIR Library matches: Inconclusive data

FTIR on J4725043



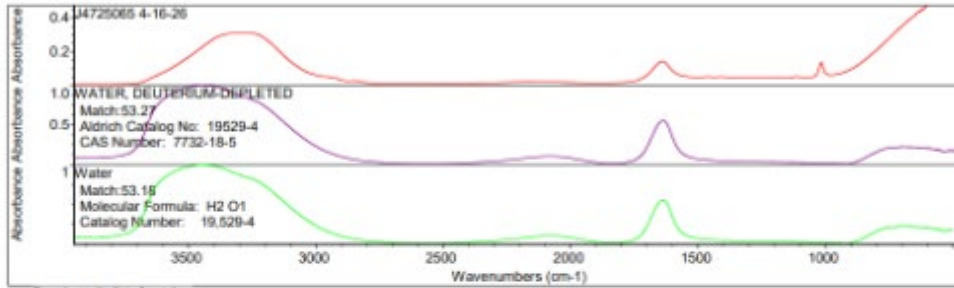
| Index | Match | Compound Name | Library Name |
|-------|-------|--|---|
| 1 | 54.15 | COBALT(II) SULFATE HYDRATE | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 2 | 54.10 | NICKEL(II) SULFATE HEXAHYDRATE, 99% A.C.S. REAGENT | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 3 | 53.40 | Cobalt sulfate · H2O | HR Nuclei Sampler Library |
| 4 | 53.47 | POLY(ETHYLENE PROPYLENE DIENE) | Hummel Polymer Sample Library |
| 5 | 53.43 | Nickel sulfate · 6H2O | HR Nuclei Sampler Library |
| 6 | 53.07 | ZINC SULFATE HEPTAHYDRATE, 99.999% | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 7 | 51.45 | MAGNESIUM SULFATE HEPTAHYDRATE, 99% A.C.S. REAGENT | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 8 | 51.23 | Magnesium sulfate · 7H2O | HR Nuclei Sampler Library |
| 9 | 49.53 | TETRAAMMINECOPPER(II) SULFATE MONOHYDRATE, 99% | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 10 | 1372 | AMMONIUM SULFATE, 99.995% | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |

GCMS on J4725043



FTIR on J4725065

Search results for: J4725065 4-16-26
 Date: Thu Apr 16 12:05:59 2026 (GMT-07:00)
 Search algorithm: Correlation
 Regions searched: 3495, 26-569.76

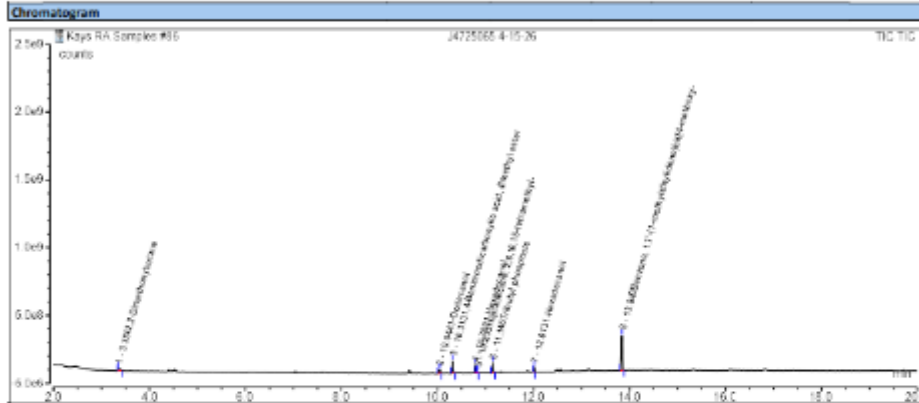


Search results list of matches

| Index | Match | Compound Name | Library Name |
|-------|-------|---|---|
| 1 | 53.27 | WATER, DEUTERIUM-DEPLETED | HR Aldrich Alcohols and Phenols |
| 2 | 123 | Water | HR Aldrich Solvents |
| 3 | 448 | 2-HYDROXYHEXANEDIOL, 25 WT. % SOLUTION IN WATER | HR Aldrich Aldehydes and Ketones |
| 4 | 38 | TALC | HR Spectra IR Demo |
| 5 | 320 | Methyl-13C alcohol | HR Nicolet Sampler Library |
| 6 | 1521 | TALC, POWDER, <10 MICRON | HR Aldrich Organometallic, Inorganic, Silanes, Boranes, and |
| 7 | 39 | RAW MATERIAL FOR CERAMICS (Talc) | HR Spectra IR Demo |
| 8 | 373 | Pentaerythritol | HR Nicolet Sampler Library |
| 9 | 580 | Talc | HR Nicolet Sampler Library |
| 10 | 433 | PENTAERYTHRITOL, 99+% | HR Aldrich Alcohols and Phenols |

GCMS on J4725065

| Peak Analysis | | |
|--------------------------|--------------------------|-------------------------|
| Injection Details | | |
| Injection Name: | J4725065 4-15-26 | Run Time (min): 18.99 |
| Vial Number: | 4 | Injection Volume: 1.00 |
| Injection Type: | Unknown | Channel: TIC |
| Calibration Level: | | Wavelength: n.a. |
| Instrument Method: | Fouled Membrane MS + FID | Bandwidth: n.a. |
| Processing Method: | DuPont FileMac v1 | Dilution Factor: 1.0000 |
| Injection Date/Time: | 15/Apr/26 12:38 | Sample Weight: 1.0000 |



| No. | Peak Name | Retention Time (min) | Match Factor | Abundance (%) | Asymmetry (EP) | Plateau (EP) |
|-----|--|----------------------|--------------|---------------|----------------|--------------|
| 1 | 2,2-Dimethylbutane | 3.354 | 750 | 90.55 | 1.93 | 17930 |
| 2 | 1-Dodecanol | 10.044 | 854 | 8.06 | 0.94 | 1350456 |
| 3 | 1,4-Benzenedicarboxylic acid, dimethyl ester | 10.313 | 920 | 15.67 | 1.18 | 1635883 |
| 4 | 1-Hexadecanol | 10.789 | 897 | 11.57 | 1.15 | 2263029 |
| 5 | Heptadecane, 2,6,10,15-tetramethyl- | 10.833 | 729 | n.a. | n.a. | n.a. |
| 6 | Tributyl phosphite | 11.146 | 892 | 25.41 | 1.45 | 1805568 |
| 7 | 1-Hexadecanol | 12.013 | 879 | 59.31 | 1.11 | 2847968 |
| 8 | Benzene, 1,1'-[1-methoxybis(4-methoxy-)] | 13.840 | 893 | n.a. | 0.98 | 2687345 |

4.2. Elemental Analysis (ICP)

Testing was done on the surface of the membrane to detect what types of metals are present.

All metals reported in mg/m².

| Serial # | Al | Ba | Ca | Cu | Fe | Mg | Mn |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| J4725043 | 0.682 | 1.91 | 30 | 0.176 | 17 | 23 | 1.79 |
| J4725065 | 3.44 | 5.36 | 4995 | 0.01 | 6.21 | 46 | 2.23 |
| | Ni | P | K | Na | Sr | Zn | Si |
| J4725043 | 2.17 | 2.33 | 0.853 | 47 | 0.152 | 0.75 | 9.74 |
| J4725065 | 0.04 | 297 | 4.89 | 8.94 | 17 | 1.16 | 57 |

Conclusions

Two FILMTEC™ SOAR 3000i elements were received at our site in Minneapolis, MN, USA on March 24, 2026, were visually inspected, standard tested, autopsied and analyzed using different tests. The main findings are summarized below:

- 1. Visual Inspection:** J4725043 - Dirty feed endcap, fouled brinenseal, discolored feed and concentrate scroll ends, fouled fiberglass body. J4725065 - Dirty, fouled, bent spoke on the feed endcap, fouled concentrate endcap, fouled brinenseal and O-ring, discolored feed end scrolls and discolored and fouled concentrate scroll, fouled feed and concentrate PWT's, heavily fouled fiberglass body.
- 2. Standard test:** J4725043 showed that the flow was low and the salt rejection was below the stabilized value but still within the minimum values. J4725065 was not tested due to weight and amount of foulant.
- 3. Autopsy:** Both elements were autopsied and a light brown fouling layer was observed on J4725043, acid had a slight effect at removing the foulant from a visual perspective. J4725065 was heavily fouled with a white fouling material, both caustic and acid had a slight effect at removing the foulant and a reaction was observed when acid was applied to the fouling layer indicating CaCO₃ may be present.
- 4. Analytical results:**

FTIR/GCMS: Spectrum of the foulant scraped from J4725043 showed surfactants, emulsifiers, oils and wax and on J4725065 surfactants, emulsifiers and wax (substances details in results above).

ICP: The foulant on the membrane surface on J4725043 consisted mainly of Ba, Ca, Fe, Mg, Mn, Ni, P, Na, Si. Deposits of Al, Cu, K, Sr, Zn were also detected. The foulant on the membrane surface on J4725065 consisted mainly of Al, Ba, Ca, Fe, Mg, Mn, P, K, Na, Sr, Zn, Si. Deposits of Cu and Ni were also detected.

The lead, J4725043 element primarily was showing flow loss from oily organics deposits (possibly slip agents, emulsifiers, and/or lubricants). The lead element also has some mineral deposits (indicating already phase separated before antiscalant addition) of some iron, barium, and silica.

The second element, J4725065, had primarily mineral scale, as CaCO₃ and some phosphate (either as antiscalant or as CaPO₄ scale). There was some organics shared with the lead element, but the scaling was the primary issue.

Recommendations

With regards to the J4725065 element, it is undetermined the manner of the scale issue. Assessments outside of this element evaluation would be needed to check tank levels, dosing pump function, correct dosing, lot to lot variability/quality, suitability of product, antiscalant poisoning or other issues.

The oily substances are unknown if this was a single exposure or maybe a regular component in the influent (naturally or as an additive). They are consistent with lubricants or slip agents.

Have a question?

Contact us at:

www.dupont.com/water/contact-us

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David City Water Treatment Plant

CCRO Water Sample Analysis

David City, NE

Prepared by:

Tanner Swett- Territory Manager
Chad Sucha - District Manager
Rasheid Aref- RO Technical Expert





Apr 6, 2026

Attn: Anthony Kobus & Dan Sobota

Overview:

David City Team ,

This document is meant to outline our findings and observations from multiple site visits along with data from samples pulled while on site during regular operations and membrane replacement.

This document will contain Garratt Callahan's findings in regard to the lab analysis from samples pulled on 2/11/26 and the deposit from 3/5/26. We are currently waiting on membrane analysis from a third party lab.

Our clients need a water treatment company who understands their objectives and can provide the expertise and resources to consistently achieve them. As demonstrated, we believe in a service- oriented approach to water treatment in which we work together to make sure our programs always meet your needs.

We are pleased to have the opportunity to submit these findings for your review. If you have any questions please contact Tanner Swett at 402-560-6543

Sincerely,

YOUR GARRATT-CALLAHAN TEAM

Tanner Swett
Territory Manager

Chad Sucha
District Manager

Rasheid Aref
Technical Director



System Background and Current Challenges

CCRO has been in operation for roughly one year's time after the water treatment plant retrodesign. In this time the plant has faced significant operational inefficiencies and equipment failures leading/causing completely bypassing the CCRO system entirely. Over the last year plant operations staff have seen a slow increase in RPMs of circulation pumps in order to maintain operating pressures. The system was hitting max RPMs in November of 2025 resulting in CIP procedures—within two months of first CIP the system required another cleaning procedure in order to maintain operations: both factors indicate heavy membrane fouling.

Fouled membranes leading to plant shut down have multiple increased costs associated with them:

- High energy/power consumption from maxed-out circulation pumps
- Chemical cost for CIP procedures
- Membrane replacement and service cost
- Equipment Lifespan-most notable pump and automated valve operations

Reverse Osmosis (RO) technology facilitates the removal of up to 98% of dissolved constituents, yielding a high-purity permeate stream and a concentrated reject stream. This is typically achieved with optimized energy expenditures. Sustained system performance is predicated upon (1) robust pretreatment (2) precise scale control and (3) analytical monitoring and maintenance, including timely CIP procedures.

Upon system commissioning no baseline data was collected on the CCRO during start-up to normalize system performance and track possible scaling or operational inefficiencies. No regular sampling PM's along with regular system data logging have been implemented by current water treatment vendor. Analytical monitoring is crucial to maintaining system operations to be preventative instead of reactive.

System Analysis

Laboratory analysis shows heavy amounts of scale formation leading to membrane fouling which over the last year has resulted in complete failure of system operations. Membranes are currently going to be replaced in both RO trains due to irreversible damage to the membranes caused by system fouling—most significant of which were cracked membranes in multiple vessels.

Lab analysis paired with onsite surveys indicates that the system is facing improper anti-scalant dosing. Improper dosing leading to fouling could be caused by one of four reasons 1. The system is being underdosed with antiscalant. 2. The system is being overdosed with antiscalant. 3. The system has the improper antiscalant to reduce fouling. 4. A combination of reasons 1 & 3 or 2 & 3.

Based on onsite visits paired with analytical data it is G-C conclusion that the system is currently suffering from a combination of insufficient antiscalant dosing paired with improper chemical formulation. Both of these factors are key pillars to a water treatment program and are measured and maintained by system tuning and operator data logging for analytical trending and predictive analysis.

Antiscalants typically operate best at a 3-5 ppm dosage. Daily logs from operators indicate that the system consumes 3-5 gallons of antiscalant a day during winter operations (an average 1 million gallons of water consumed daily.) When calculated out this equates to 3-5 ppm being dosed to the RO systems. With a proper chemical program this system would have the optimal amount of chemistry to reduce membrane fouling. To elaborate—a proper chemical program includes regular field testing and data collection to trend lead indicators to anticipate system maintenance or adjustments.



***Pictured from left to right are membranes pulled for membrane analysis. The first two images are the lead membrane from vessel 12/23/1 that was sent for analysis. The third image is the tail membrane from the same vessel.

Note: on the first picture you can see cracking on the membrane head which is caused by pressure issues during operation.

Scale Issues

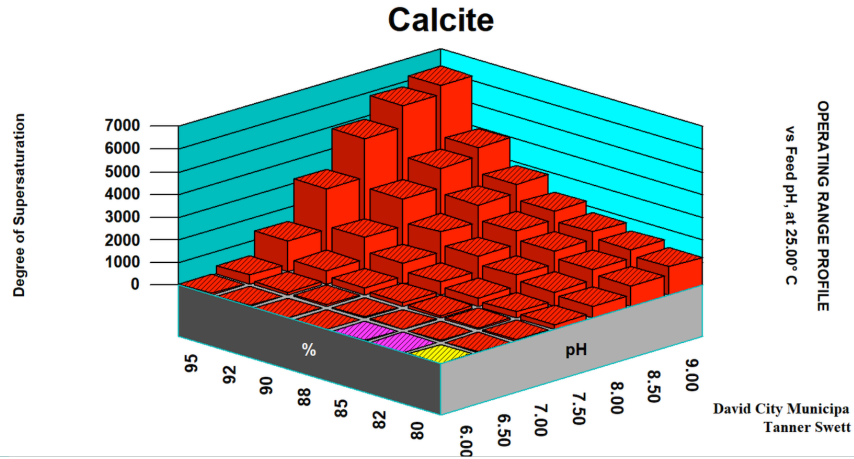
Lab and deposit analyses for the David City site indicates scale formation and deposition is a major issue. Scale formation occurs when dissolved minerals in the feed water exceed their solubility limits and precipitate onto the membrane surface. This leads to several operational issues:

- **Reduced Flux:** Scale acts as a physical barrier, decreasing the amount of purified water (permeate) the system can produce.
- **Increased Pressure Requirements:** To maintain water production, the system must work harder, leading to higher energy consumption.
- **Membrane Damage:** Persistent scaling can lead to irreversible physical damage or "telescoping" of the membrane elements.
- **Higher Operating Costs:** Frequent cleaning (CIP) and premature membrane replacement significantly increase the total cost of ownership.

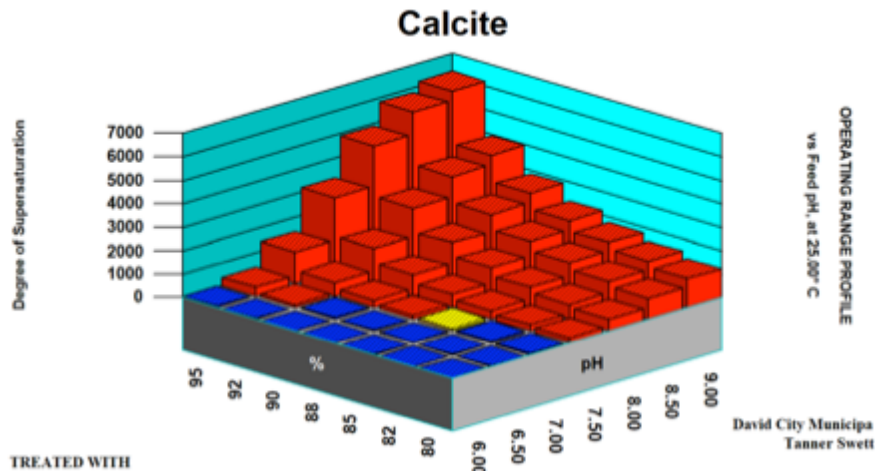
In addition, the David City facility uses CCRO vs. traditional RO. In CCRO operation, the systems are driven to much higher recovery through use of a concentrate recirculation loop. Scaling in this case becomes even more severe than in traditional RO. Modeling, using the French Creek Hyd-RO-Dose software, was performed for the system, using a 90% recovery (conservative for CCRO). The David City OPR report shows calcium scale indices approaching 1500% saturation (see the yellow highlighted text).

| SCALE POTENTIAL AND CONTROL | | | | | | |
|-----------------------------|-----------|-------------------|------|---------|-------|---------|
| SATURATION LEVEL | | Raw | Feed | Product | Brine | |
| 18 | Calcite | CaCO ₃ | 1.01 | 1.01 | 0.00 | 1476.24 |
| 11 | Aragonite | CaCO ₃ | 0.93 | 0.93 | 0.00 | 1365.47 |

The plot below shows the scaling potential for calcite without effective antiscalants. Red and pink coloring indicate scaling will occur. The height of the bar indicates how saturated the material is. The numbers along the bottom of the plot indicate the pH of the system and the percent recovery of the system. For example, the yellow bar indicates the scaling potential when the system is operating at 80% recovery and a pH of 6



With addition of antiscalants, effective scale control can be achieved. Bars colored in blue indicate conditions where scaling is not predicted to occur. Note that a combination of pH and antiscalant feed is required for effective control. (Modeling shows GC Formula 6035 as the antiscalant of choice)



Antiscalants are typically applied in small doses (3 to 5 ppm). This is because they work at a molecular level to disrupt crystal scale formation, changing both the speed of deposition (kinetics) and the type of deposition (crystal habitat) to minimize scale formation and make it easier to remove during CIP.

PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/23/2026
Analysis End Date: 02/25/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-01
SAMPLE NAME: Feedwater

| ANALYTE | RESULT | UNITS | DF | RDL |
|--|---|----------|----|------|
| pH | 7.84 at 22°C | S.U. | 1 | - |
| Conductivity, at 25°C | 790 | µmhos/cm | 1 | 1 |
| Phenolphthalein Alkalinity, as CaCO ₃ , to pH 8.3 | ND | mg/L | 1 | 5 |
| Total Alkalinity, as CaCO ₃ , to pH 4.5 | 350 | mg/L | 1 | 5 |
| Bromide, as Br | ND | mg/L | 5 | 0.5 |
| Chloride, as Cl | 2.3 | mg/L | 5 | 0.5 |
| Nitrate, as NO ₃ | 1.1 | mg/L | 5 | 0.5 |
| Nitrite, as NO ₂ | ND | mg/L | 5 | 0.5 |
| Orthophosphate, as PO ₄ | ND | mg/L | 5 | 1 |
| Sulfate, as SO ₄ | 94 | mg/L | 5 | 0.5 |
| Calcium Hardness, as CaCO ₃ | 263 | mg/L | 1 | 0.5 |
| Magnesium Hardness, as CaCO ₃ | 118 | mg/L | 1 | 0.5 |
| Total Hardness, as CaCO ₃ | 381 | mg/L | 1 | 0.5 |
| Molybdenum, Mo | ND | mg/L | 1 | 0.01 |
| Potassium, K | 9.6 | mg/L | 1 | 1 |
| Silica, as SiO ₂ , Dissolved | 46 | mg/L | 1 | 0.1 |
| Sodium, Na | 29 | mg/L | 1 | 1 |
| Sample Description | clear colorless liquid w/ particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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 50 Ingold Road, Burlingame, CA 94010 - 650.697.5811
 Customer Feedback: labfeedback@g-c.com

PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/27/2026
Analysis End Date: 02/27/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-02
SAMPLE NAME: Feedwater

| ANALYTE | RESULT | UNITS | DF | RDL |
|--------------------|---|-------|----|------|
| Aluminum, Al | ND | mg/L | 1 | 0.03 |
| Barium, Ba | 0.08 | mg/L | 1 | 0.02 |
| Copper, Cu | ND | mg/L | 1 | 0.01 |
| Iron, Fe | ND | mg/L | 1 | 0.02 |
| Manganese, Mn | ND | mg/L | 1 | 0.01 |
| Strontium, Sr | 0.86 | mg/L | 1 | 0.1 |
| Zinc, Zn | ND | mg/L | 1 | 0.03 |
| Sample Description | clear colorless liquid w/no particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/23/2026
Analysis End Date: 03/10/2026
Report Date: 03/12/2026

SAMPLE NUMBER: 260415-03
SAMPLE NAME: Reject

| ANALYTE | RESULT | UNITS | DF | RDL |
|--|--|----------|----|------|
| pH | 7.80 at 22°C | S.U. | 1 | - |
| Conductivity, at 25°C | 4340 | µmhos/cm | 1 | 1 |
| Phenolphthalein Alkalinity, as CaCO ₃ , to pH 8.3 | ND | mg/L | 1 | 5 |
| Total Alkalinity, as CaCO ₃ , to pH 4.5 | 2360 | mg/L | 1 | 5 |
| Bromide, as Br | ND | mg/L | 20 | 2 |
| Chloride, as Cl | 15 | mg/L | 20 | 2 |
| Nitrate, as NO ₃ | 4.7 | mg/L | 20 | 2 |
| Nitrite, as NO ₂ | ND | mg/L | 20 | 2 |
| Orthophosphate, as PO ₄ | ND | mg/L | 20 | 4 |
| Sulfate, as SO ₄ | 830 | mg/L | 20 | 2 |
| Calcium Hardness, as CaCO ₃ | 1860 | mg/L | 10 | 5 |
| Magnesium Hardness, as CaCO ₃ | 976 | mg/L | 1 | 0.5 |
| Total Hardness, as CaCO ₃ | 2840 | mg/L | 10 | 5 |
| Molybdenum, Mo | 0.05 | mg/L | 1 | 0.01 |
| Potassium, K | 73 | mg/L | 1 | 1 |
| Silica, as SiO ₂ , Dissolved | 260 | mg/L | 1 | 0.1 |
| Sodium, Na | 190 | mg/L | 1 | 1 |
| Polymer, Qualitative | detected | - | 1 | - |
| Sample Description | clear colorless liquid w/no particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 03/10/2026
Analysis End Date: 03/11/2026
Report Date: 03/12/2026

SAMPLE NUMBER: 260415-08
SAMPLE NAME: Reject

| ANALYTE | RESULT | UNITS | DF | RDL |
|--------------------|---|-------|----|------|
| Aluminum, Al | ND | mg/L | 1 | 0.03 |
| Barium, Ba | 0.55 | mg/L | 1 | 0.02 |
| Copper, Cu | 0.01 | mg/L | 1 | 0.01 |
| Iron, Fe | ND | mg/L | 1 | 0.02 |
| Manganese, Mn | 0.02 | mg/L | 1 | 0.01 |
| Strontium, Sr | 6.7 | mg/L | 1 | 0.1 |
| Zinc, Zn | ND | mg/L | 1 | 0.03 |
| Sample Description | clear colorless liquid w/no particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/23/2026
Analysis End Date: 03/04/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-04
SAMPLE NAME: Permeate Vessel (12/4)

| ANALYTE | RESULT | UNITS | DF | RDL |
|--|---|----------|----|------|
| pH | 7.54 at 22°C | S.U. | 1 | - |
| Conductivity, at 25°C | 120 | µmhos/cm | 1 | 1 |
| Phenolphthalein Alkalinity, as CaCO ₃ , to pH 8.3 | ND | mg/L | 1 | 5 |
| Total Alkalinity, as CaCO ₃ , to pH 4.5 | 62 | mg/L | 1 | 5 |
| Bromide, as Br | ND | mg/L | 1 | 0.1 |
| Chloride, as Cl | 0.8 | mg/L | 1 | 0.1 |
| Nitrate, as NO ₃ | 0.7 | mg/L | 1 | 0.1 |
| Nitrite, as NO ₂ | ND | mg/L | 1 | 0.1 |
| Orthophosphate, as PO ₄ | ND | mg/L | 1 | 0.2 |
| Sulfate, as SO ₄ | 1.4 | mg/L | 1 | 0.1 |
| Calcium Hardness, as CaCO ₃ | 14 | mg/L | 1 | 0.5 |
| Magnesium Hardness, as CaCO ₃ | 6.6 | mg/L | 1 | 0.5 |
| Total Hardness, as CaCO ₃ | 21 | mg/L | 1 | 0.5 |
| Molybdenum, Mo | ND | mg/L | 1 | 0.01 |
| Potassium, K | 4.1 | mg/L | 1 | 1 |
| Silica, as SiO ₂ , Dissolved | 12 | mg/L | 1 | 0.1 |
| Sodium, Na | 14 | mg/L | 1 | 1 |
| Sample Description | clear colorless liquid w/ particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/27/2026
Analysis End Date: 02/27/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-05
SAMPLE NAME: Permeate Vessel (12/4)

| ANALYTE | RESULT | UNITS | DF | RDL |
|--------------------|---|-------|----|------|
| Aluminum, Al | ND | mg/L | 1 | 0.03 |
| Barium, Ba | ND | mg/L | 1 | 0.02 |
| Copper, Cu | ND | mg/L | 1 | 0.01 |
| Iron, Fe | ND | mg/L | 1 | 0.02 |
| Manganese, Mn | ND | mg/L | 1 | 0.01 |
| Strontium, Sr | ND | mg/L | 1 | 0.1 |
| Zinc, Zn | ND | mg/L | 1 | 0.03 |
| Sample Description | clear colorless liquid w/no particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/23/2026
Analysis End Date: 02/25/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-06
SAMPLE NAME: Permeate Vessel (12/23)

| ANALYTE | RESULT | UNITS | DF | RDL |
|--|--|----------|----|------|
| pH | 7.87 at 22°C | S.U. | | - |
| Conductivity, at 25°C | 570 | µmhos/cm | | |
| Phenolphthalein Alkalinity, as CaCO ₃ , to pH 8.3 | ND | mg/L | | 5 |
| Total Alkalinity, as CaCO ₃ , to pH 4.5 | 260 | mg/L | | 5 |
| Bromide, as Br | ND | mg/L | | 0.1 |
| Chloride, as Cl | 2.8 | mg/L | | 0.1 |
| Nitrate, as NO ₃ | 1.5 | mg/L | | 0.1 |
| Nitrite, as NO ₂ | ND | mg/L | | 0.1 |
| Orthophosphate, as PO ₄ | ND | mg/L | | 0.2 |
| Sulfate, as SO ₄ | 45 | mg/L | | 0.1 |
| Calcium Hardness, as CaCO ₃ | 149 | mg/L | | 0.5 |
| Magnesium Hardness, as CaCO ₃ | 69 | mg/L | | 0.5 |
| Total Hardness, as CaCO ₃ | 217 | mg/L | | 0.5 |
| Molybdenum, Mo | ND | mg/L | | 0.01 |
| Potassium, K | 13 | mg/L | | |
| Silica, as SiO ₂ , Dissolved | 39 | mg/L | | 0.1 |
| Sodium, Na | 37 | mg/L | | |
| Sample Description | clear colorless liquid w/no particulates | - | | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

Approved By: Maggie Scott - Laboratory Director
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PROJECT NO. 260415

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/20/2026
Analysis Start Date: 02/27/2026
Analysis End Date: 02/27/2026
Report Date: 03/05/2026

SAMPLE NUMBER: 260415-07
SAMPLE NAME: Permeate Vessel (12/23)

| ANALYTE | RESULT | UNITS | DF | RDL |
|--------------------|---|-------|----|------|
| Aluminum, Al | ND | mg/L | 1 | 0.03 |
| Barium, Ba | 0.05 | mg/L | 1 | 0.02 |
| Copper, Cu | ND | mg/L | 1 | 0.01 |
| Iron, Fe | ND | mg/L | 1 | 0.02 |
| Manganese, Mn | ND | mg/L | 1 | 0.01 |
| Strontium, Sr | 0.51 | mg/L | 1 | 0.1 |
| Zinc, Zn | ND | mg/L | 1 | 0.03 |
| Sample Description | clear colorless liquid w/no particulates | - | 1 | - |

DF = Dilution Factor
 RDL = Reporting Detection Limit
 ND = None Detected at or above the RDL

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PROJECT NO. 260414

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 02/11/2026
Date Received: 02/19/2026
Analysis Start Date: 03/10/2026
Analysis End Date: 03/10/2026
Report Date: 03/10/2026

SAMPLE NUMBER: 260414-01
SAMPLE NAME: Filter

FOURIER TRANSFORM INFRARED ANALYSIS

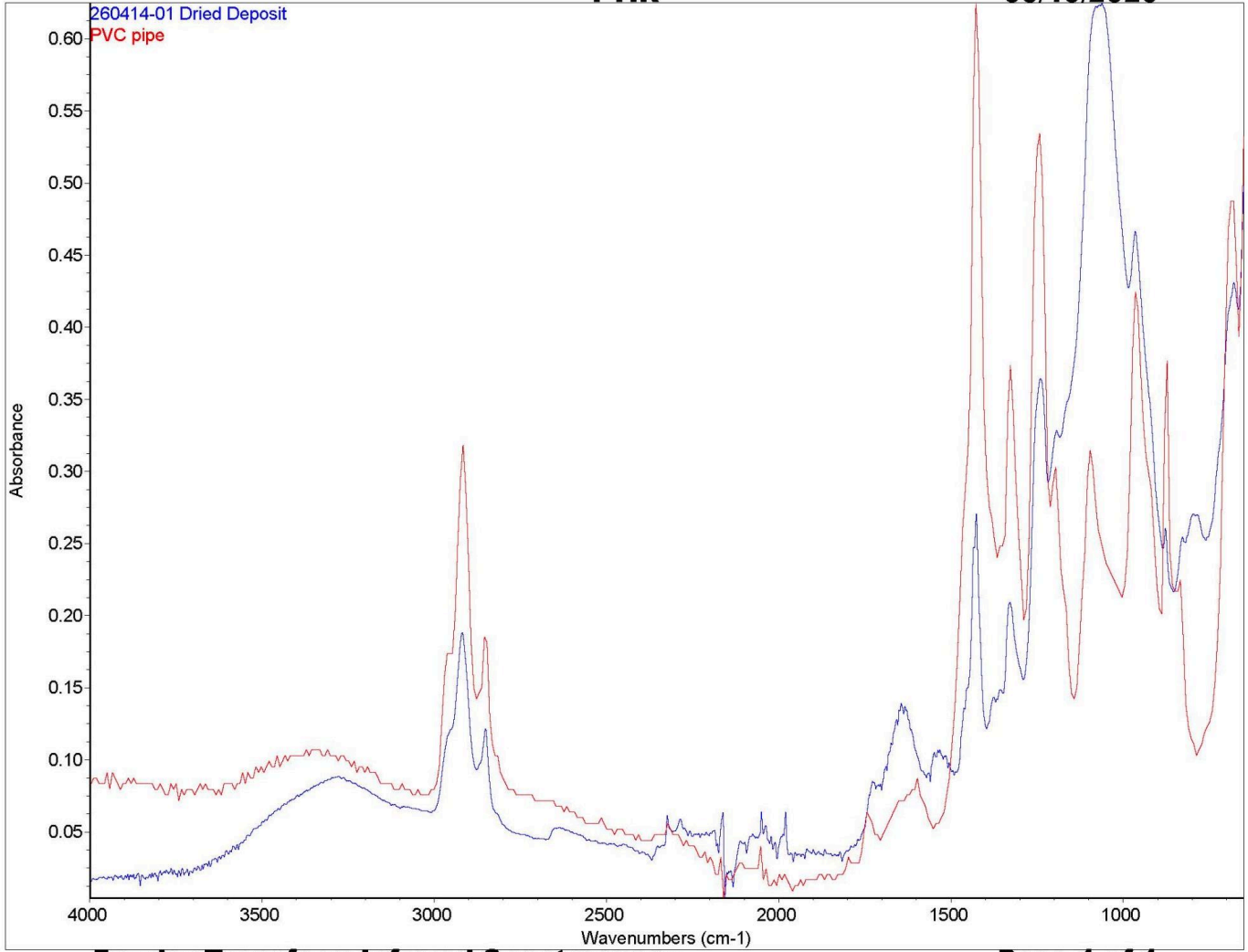
| ANALYTE | RESULT | UNITS |
|---|-----------------------------|-------|
| Possible Chemical/Material Identification I | PVC pipe/polyvinyl chloride | - |

FTIR uses infrared energy to measure the absorption of energy between chemical bonds, producing a spectrum. It works with most organic and a few inorganic chemicals. Identification of the exact material may not be possible; suspected materials can be submitted later for comparison.

| ANALYTE | RESULT | UNITS |
|--------------------|---|-------|
| Sample Description | black and gray particulates trapped on a filter | - |

Analysis Performed By: ADeleon

Approved By: Maggie Scott - Laboratory Director
Garratt-Callahan Analytical Laboratory
50 Ingold Road, Burlingame, CA 94010 - 650.697.5811
Customer Feedback: labfeedback@g-c.com



PROJECT NO. 260613

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 03/05/2026
Date Received: 03/13/2026
Analysis Start Date: 03/19/2026
Analysis End Date: 03/19/2026
Report Date: 03/20/2026

SAMPLE NUMBER: 260613-01
SAMPLE NAME: RO Membrane Deposit

LOSS ON IGNITION ANALYSIS

| ANALYTE | RESULT | UNITS |
|--------------------------|--------|----------------|
| Loss on Ignition @ 700°C | 7.0 | wt%, dry basis |

LOI at 700°C is an estimate of the amount of organic material in the dried sample.

X-RAY FLUORESCENCE ANALYSIS

| ANALYTE | RESULT | UNITS |
|---------------|--------|----------------|
| Calcium, Ca | 37 | wt%, dry basis |
| Silicon, Si | 7.6 | wt%, dry basis |
| Strontium, Sr | 0.19 | wt%, dry basis |

The elements listed above are those detected in the dried sample by XRF analysis. Hydrogen, Carbon, Nitrogen and Oxygen are not determined in this analysis.

X-RAY DIFFRACTION ANALYSIS

| ANALYTE | RESULT | UNITS |
|------------------|----------------------|-------|
| Chemical Formula | Ca(CO ₃) | - |
| Name of Phase | Calcite | - |
| Relative Amount | 85-95 | % |

XRD identifies the crystalline compounds in the sample. The estimated amounts, if reported, are based on results from the elemental and qualitative analyses.

Analysis Performed By: ADeleon

Approved By: Maggie Scott - Laboratory Director
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PROJECT NO. 260613

Customer Name: DAVID CITY MUNICIPAL WATER TREATMENT PLANT
Address: 1220 E E ST
City, State, Zip: DAVID CITY, NE 68632
Customer Number: 3672527
Name of Sampler: Tanner Swett
Submitted by: Tanner Swett

Date Sampled: 03/05/2026
Date Received: 03/13/2026
Analysis Start Date: 03/19/2026
Analysis End Date: 03/19/2026
Report Date: 03/20/2026

SAMPLE NUMBER: 260613-01
SAMPLE NAME: RO Membrane Deposit

QUALITATIVE TESTS

| ANALYTE | RESULT | UNITS |
|----------------------------------|-------------------|-------|
| Carbonate, Qualitative | strongly detected | - |
| Soluble Iron, Qualitative | none detected | - |
| Magnetic Properties, Qualitative | none detected | - |

| ANALYTE | RESULT | UNITS |
|--------------------|---------------|-------|
| Sample Description | white deposit | - |

SAMPLE COMMENTS:

XRD analysis identified the constituents, so FTIR analysis wasn't performed.

Analysis Performed By: ADeleon

Approved By: Maggie Scott - Laboratory Director
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50 Ingold Road, Burlingame, CA 94010 - 650.697.5811
Customer Feedback: labfeedback@g-c.com

X-Ray Diffraction Scan

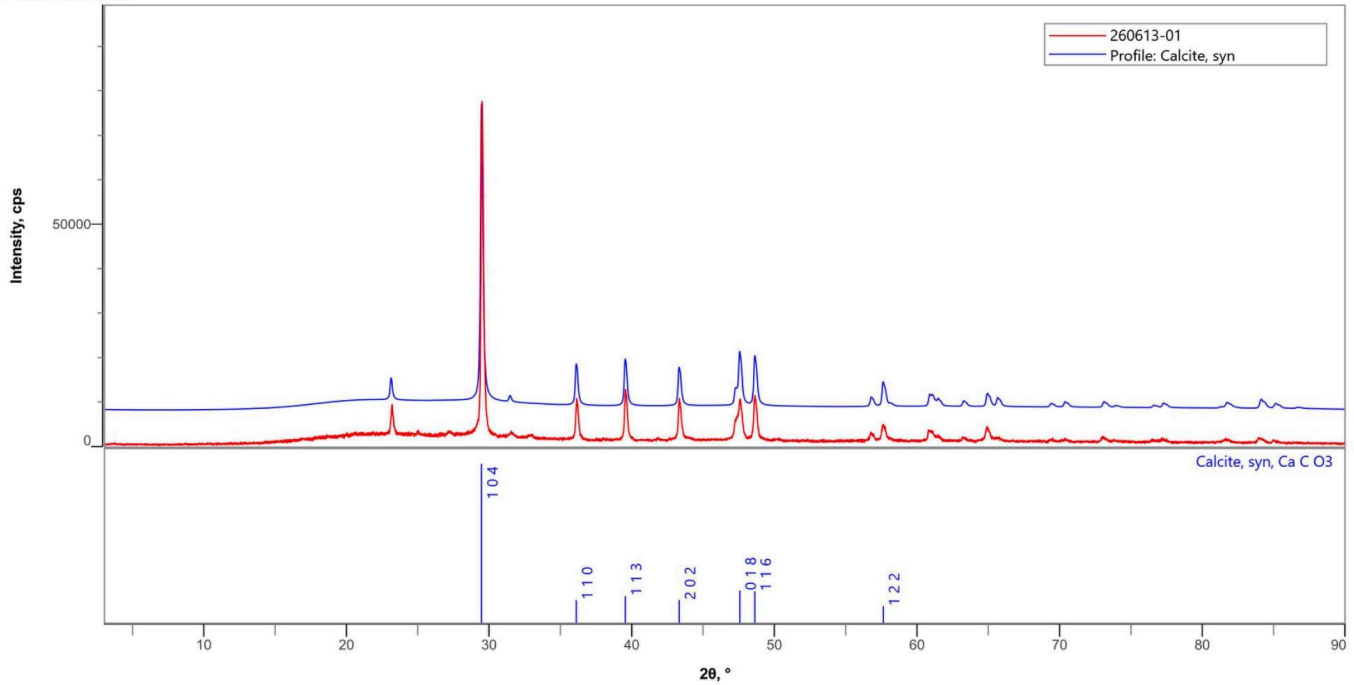
General Information

| | | | |
|--------------------|-----------------------|------------------------|--------------------------|
| Analysis date | 2026-03-20 09:15:18 | Measurement start time | 2026-03-19 11:39:50 |
| Analyst | Anthony DeLeon | Operator | Anthony DeLeon |
| Sample name | RO Membrane Deposit | Comment | Garratt-Callahan Company |
| Measured data name | C:\New\260613-01.rasx | Memo | Rigaku XRD |

Qualitative Analysis Results

| | | | | | |
|--------------|---------------------|-------|-------------------|--------------|----------------|
| Phase name | Chemical formula | FOM | Phase reg. detail | Space Group | DB Card Number |
| Calcite, syn | Ca C O ₃ | 0.352 | S/M:PDF-5+ 2026 | 167 : R-3c:H | 00-005-0586 |

Phase Data View



Monitoring and Maintenance Recommendations

Timely cleaning (CIP) is critical for all RO systems. Normalized parameters must be monitored to know when CIP is needed. Raw numbers will not be enough. Normalization programs compare current performance to start up performance to indicate when cleaning is needed. The following Normalized parameters need to be monitored.

Monitoring for All RO Systems

| Metric | CIP Trigger Threshold | What it Indicates |
|--|-----------------------|---|
| <i>Normalized Permeate Flow</i> | 10% to 15% Decrease | Membrane fouling (organics/biofouling) or scaling. |
| <i>Normalized Pressure Drop (ΔP or DP)</i> | 15% Increase | Physical blockage in the feed channels (sediment or scale). |
| <i>Salt Passage</i> | 10% to 15% Increase | Membrane degradation or severe scaling/fouling. |



Garratt Callahan provides monitoring software so you can see at a glance if a CIP trigger threshold has been reached or exceeded.

Additional Monitoring for CCRO Systems

| Metric | What it Indicates |
|---|---|
| <i>Shortened Cycle Time (time to trigger automatic flush)</i> | Membrane fouling or scaling. |
| <i>High Pressure Spike (end of cycle)</i> | Scale or physical blockage in the feed channels |

Garratt Callahan provides highly effective formulated cleaners and instructions for CIP procedures which can be easily tailored for your specific cleaning needs. SOPs for CIP will also include data collection and testing to log effectiveness of cleaning procedure, as well as reporting to detail what constituents are causing membrane fouling.

Conclusion and Recommendations

CCRO membranes have been fouled to the point that system operations have become nearly impossible to maintain for consistent water feed for the city. G-C recommends the use of Formula 6035 for antiscalant use and Formula 6600 for oxidizer destruction paired with G-C's RO maintenance program. This program will include monthly on site service visits from G-C personnel covering chemical testing, chemical pump maintenance and troubleshooting, along with daily logging procedures and standard operating procedures for CIP's and additional PMs.

Additionally, G-C recommends having the system baselined by G-C personnel during start up after new membranes are put into operation. This is crucial for RO maintenance program success and normalization to track progress of system operations and move the water treatment program from a reactive to a preventative maintenance program.

Results from membrane analysis will provide detailed information for future CIP projects so that G-C can specifically choose cleaning chemistries—reducing overall cost for regularly timed CIPs.

G-C program goals are to increase membrane longevity, reduce operating costs and plant downtime, reduce frequency and cost of CIPs by providing onsite technical expertise driven by analytical data.









