



Carrie Eklund
Central Services Manager
Finance Department

**REQUEST FOR PROPOSALS
WATER OPERATIONAL DATA MANAGEMENT SYSTEM
RFP NO.: 1112-W-150**

10/30/12

Name of Proposing Firm: _____
Address _____ City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
E-Mail: _____

RFP Opening Time and Date 11:00 a.m., Local Time, Thursday, November 15, 2012

Proposals will be accepted until the specified opening time and date. Any bidder attempting to deliver after the opening time and date will be refused.

Bid Deposit/Bid Bond: NO
Prevailing Wage NO
Performance Bond: NO

PLEASE MARK THE RETURN SEALED ENVELOPE:

1. RFP Opening Date and Time
2. Title of Job
3. RFP Number

RETURN PROPOSALS TO:

City of Rockford
Central Services Manager
425 East State Street, 4th Floor
Rockford, Illinois 61104
Telephone: (815) 987-5560

PROPOSALS SUBMITTED BY FASCIMILE OR E-MAIL WILL NOT BE ACCEPTED

PROPOSAL RESULTS:

Bid results may be obtained by telephone at (815) 987-5560, by fax at (800) 380-7174. or at www.rockfordil.gov

CITY OF ROCKFORD, ILLINOIS—BIDDING GENERAL CONDITIONS

1. Pricing. The bidder shall insert price for all bid items and all other information requested in these specifications. The price shall be the *full, delivered cost* to the City of Rockford with no additions.
2. Total versus “Per Item” Awards. The City generally awards contracts based on a lump sum basis to the lowest responsible and responsive bidder. However, the City may choose to award on a per item basis. Therefore, each bidder must submit pricing for each item indicated on the bid forms. Bidders must clearly indicate which items are bid and which are not.
3. Delivery of Merchandise. Delivery terms will always be Freight On Board (FOB)—Destination. The City of Rockford accepts no responsibility for the condition of any merchandise purchased prior to acceptance by City Personnel. Failure to comply with this requirement may constitute rejection of the bid.
4. Acceptance of Merchandise at Delivery. The City of Rockford reserves the right to refuse acceptance of delivered merchandise that differs substantially from the specifications in this invitation to bid or as otherwise permitted by Illinois law.
5. Prompt Payment Act. The City of Rockford intends to comply with the governmental prompt payment act. The awarded vendor will be paid upon submission of invoices to: City of Rockford Accounts Payable, 425 East State Street, Rockford, IL 61104.
6. W-9 Request for Taxpayer Identification Number. Prior to issuance of a purchase order, the successful bidder will be required to supply the City of Rockford with a federal W-9 Request for Taxpayer Identification Number and Certification. Failure to comply with this requirement will be considered a violation of contract terms, for which the City may bar the vendor from bidding for a period of up to three years.
7. Legal Compliance. The vendor awarded this contract will comply with all Federal, State, County, and City laws, ordinances, rules and regulations, which in any manner affect the product or service placed for bid herein. Lack of knowledge on the part of the awarded vendor of applicable law will in no way be cause for release of this obligation. If the City becomes aware of violation of any laws, ordinances, rules and regulations on the part of the awarded vendor, it reserves the right to reject any bid, cancel any contract, and pursue any other legal remedies deemed necessary.
8. Legal Requirements. This contract sets forth the entire final agreement between the City of Rockford and the bidder and shall govern the respective duties and obligations of the parties. The validity of this contract, and any disputes arising from the contract, shall be governed by the laws of the State of Illinois. Any litigation under this agreement shall be resolved in the trial courts of Winnebago County, State of Illinois. Should a provision of this contract be declared invalid by a court of competent jurisdiction, it shall not affect the validity of the remaining provisions of the contract.
9. Safety. Prevention of accidents at any project is the sole responsibility of the awarded vendor and its subcontractors, agents, and employees. The awarded vendor, its subcontractors, agents, and employees shall be fully and solely responsible for the safety of this project. The awarded vendor shall retain exclusive and direct control over the acts or omissions of its subcontractors, agents and employees, and any other persons performing portions of the work and not directly employed by the awarded vendor.

10. Criminal Background Check. When necessary for the protection of citizens and/or City staff, the City may require an awarded vendor to conduct a criminal background check on all of its personnel who will have direct contact with City facilities or residents/businesses served under this contract. Personnel are defined as representatives, agents, employees, subcontractors, or anyone else who will be utilized to fulfill obligations under this contract. Criminal background checks, at a minimum, shall consist of a county level felony and misdemeanor check for each county in which the personnel resided in the last 10 years. The awarded vendor shall notify the City of any of its personnel who have been convicted of a felony or misdemeanor prior to commencing any work under this contract. At the City's discretion, personnel with any felony or misdemeanor convictions which raise a concern about the safety of building, property, or City staff/resident's personal security, or is otherwise job related (as determined by the City) shall not perform work under this contract. Once given notice that a background check(s) will be required, it must be completed within 14 calendar days so as to not delay work to be completed.

11. Control of the Work. With respect to the awarded vendor's own work, the City shall not have contractual, operational, and/or supervisory control over and/or charge of the work and shall not be responsible for construction means, methods, techniques, sequences, procedures, and programs in connection with the awarded vendor's work, since these are solely the vendor's responsibility under the agreement. The City shall not be responsible for the awarded vendor's failure to carry out the work in accordance with the agreement's terms and conditions. The City shall not have control over and/or charge of acts or omissions of the awarded vendor, its subcontractors, and/or their agents or employees, or any other person performing portions of the work not directly employed by the awarded vendor. The awarded vendor shall be considered to be an "independent contractor" pursuant to Illinois law.

12. Bid Bond. When required on the cover sheet, a bid bond for not less than 5 percent of the bid amount must accompany all bids as a guarantee that if the bid is accepted, the bidder will execute and file the proper contract. A bank cashier's check, bank draft, or certified check equal to the amount specified is acceptable in lieu of a bid bond. Bid bonds of the two lowest firms will be retained until the contract is awarded.

13. Performance Bond. When required by the specifications herein, the awarded vendor shall furnish a performance bond equal to the amount of the contract, acceptable to the City, within 14 calendar days after notification of contract award. Failure to furnish the required bond within the time specified may be cause for rejection of the bid and any bid deposit may be retained by the City as liquidated damages and not as a penalty.

14. Taxes. No charge will be allowed for taxes from which the City of Rockford, Illinois is exempt. The City of Rockford, Illinois is not liable for the Illinois Retailers' Occupation Tax, the Service Occupation Tax or the Service Use Tax. The City is exempt from the Federal Excise and Transportation Tax.

15. Withdrawal of Bids. Firms may withdraw or cancel their bids at any time prior to the advertised invitation to bid opening. After the opening time, no bid shall be withdrawn or cancelled. All bids shall be firm and valid for a period of sixty (60) calendar days. If a bidder to whom a contract is awarded refuses to accept the award, the City may, at its discretion, suspend the bidder for a period of time up to three (3) years.

16. Subcontracting. The bidder shall provide information for all subcontractors, leased operators/equipment, and suppliers and all other information requested in the Subcontractor and Supplier Detail Forms attached. Requests for deviations from the completed detail forms submitted must be made in writing, and reviewed and approved by the City's Diversity Procurement Officer and the Central Services Manager or designee. The awarded vendor may not subcontract any portion of the contract after award without written consent of the City of Rockford

Central Services Manager. When subcontractors are used, the awarded vendor is required to pay subcontractors promptly after completion of work. Delay of payment is prohibited.

17. Termination of Contract. The City of Rockford reserves the right to terminate the contract in its entirety or in portions, upon written notice to the awarded vendor, if the Rockford City Council does not appropriate sufficient funds to complete the contract or in the event of default by the awarded vendor. Default is defined as failure of the awarded vendor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. In the event of default, the City may purchase the product(s) and/or service(s) from other sources and hold the defaulting company responsible for any excess costs occasioned thereby. The City may require payment of liquidated damages for non-performance. Should default be due to failure to perform or because of a request for a price increase, the City reserves the right to remove the firm from the City's bidder list for a period of up to three years.

18. Late Bids and Proposals. Regardless of cause, late bids and proposals will not be accepted and will automatically be disqualified from further consideration. It shall be solely the vendor's risk to ensure delivery at the designated office by the designated time. Late bids and proposals will not be opened and may be returned to the awarded vendor at their request and expense.

19. EEO Forms. Each firm shall be required to submit with its bid information all EEO forms included in the invitation to bid package. Any bid which fails to include the properly completed compliance items will not be read and will not be considered. All subcontractors shall also be required to comply with the same EEO forms as the firm.

20. Restrictive or Ambiguous Specifications. It is the responsibility of the bidding firm to review the invitation to bid specifications and to notify the Central Services Manager if the specifications are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the specifications or invitation to bid procedures must be received by the Central Services Division not less than seventy-two hours prior to the time set for the opening. In the event a contract term is not defined within the contract document, the term will be given its ordinary dictionary definition.

21. Bid Protest. Firms wishing to protest bids or awards shall notify the Central Services Manager in writing within 7 days after the invitation to bid opening. The notification should include the bid number, the name of the firm protesting, and the reason why the firm is protesting the bid. The Central Services Manager will respond to the protest within seven (7) calendar days. A successful protest may result in the reversal of a previously awarded contract.

22. Disputes. In case of disputes as to whether or not an item or service quoted or delivered meets specifications, the decision of the Central Services Manager, or authorized representative shall be final and binding to all parties. The Central Services Manager has the right to waive technicalities as they see fit. The Central Services Manager may request a written recommendation from the head of the department using the equipment or service being procured.

23. Exceptions. Any deviations from these specifications shall be noted and submitted with the bid. Failure to address deviations from specifications may result in bid rejection.

24. Acceptance/Rejection of Bids. The City of Rockford reserves the right to accept or reject any or all bids or proposals at any time, for any reason, including but not limited to the Rockford City Council not appropriating

sufficient funds to purchase equipment or complete the contract. The City may make awards in any manner deemed in the best interest of the City.

25. Prevailing Wage. When indicated on the cover page of this document, this contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 *et seq.* ("the Act"). The Act requires awarded vendors and subcontractors to pay laborers, workers, and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. When required, awarded vendors are responsible for paying current prevailing wage rates, as posted on the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. It is the awarded vendor's responsibility to verify current wage rates, as they are updated monthly. All awarded vendors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice, and record keeping duties.

26. Certified Payroll. All Certified Payroll reports required to be submitted under the Prevailing Wage Act, 820 ILCS 130, must be submitted monthly via email, in Excel or some format compatible with Excel, to certified.payroll@rockfordil.gov.

27. Substance Abuse Prevention. When required by Illinois State Statutes, awarded vendors must have in place and file with the City a written program for prevention of substance abuse among its employees. This program must include pre-hire, random, reasonable suspicion, and post-accident drug and alcohol testing, as required by the Substance Abuse Prevention on Public Works Projects Act.

28. Apprenticeship Requirement. For construction contracts over \$50,000, awarded vendors must participate in apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training for all Trades that will be in the awarded vendor's (or his subcontractor's) employment, with each worker receiving the required apprenticeship/training appropriate to his trade. Owners or work performed by owners is not exempt from the apprenticeship and training requirement.

29. Indemnification. To the fullest extent permitted by law, the awarded vendor shall indemnify and hold harmless the City, its officers, representatives, elected and appointed officials, agents, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from the awarded vendor's performance of work under this agreement, and indemnifies and agrees to defend and hold harmless the City against any and all losses, claims, damages, and expenses arising from the work performed hereunder of the erection, construction, placement, or operation of any scaffold, hoist, crane, stay, ladder, support, or other mechanical contrivance in connection with such work including but not limited to losses, claims, damages, and expenses arising pursuant to claims asserted against the City pursuant to theories premised upon section 414 of the Restatement (Second) of Torts and section 343 of the Restatement (Second) of Torts.

This indemnification agreement shall not be limited in any way by any limitations on the amount or type of damages, compensation, or benefits payable by or for the awarded vendor under Worker's Compensation Acts, disability benefit acts, or other employee benefit acts, and serves as an express agreement to waive the protection of *Kotecki v. Cyclops Welding Corp.*, 146 Ill.2d 155, 585 N.E.2d 1023 (1991) in Illinois.

Further, the awarded vendor agrees that it is solely responsible for compliance with all safety laws applicable to the work performed hereunder, including but not limited to the Occupational Safety and Health Act of 1970 and the Construction Safety Act of 1960 and all standards and regulations which have been or shall be promulgated by the agencies which administer the Acts.

Under no circumstances shall the awarded vendor, its subcontractors, agents, and employees be required to indemnify the City for its own negligence.

30. Officers. Each bidder affirms, by submission of a response to this bid or request for proposals, that no officer of the City of Rockford, Illinois, is directly or indirectly interested in the proposal for any reason of personal gain.

31. Non-Waiver. The failure by the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this contract constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

32. Professional Services Selection Act. The City of Rockford intends to comply with 50 ILCS 510/5 governing the selection of professional services. Any reference in these terms and conditions to supplying pricing or price as a determining factor in selection do not apply for services covered by said act.

33. The City of Rockford reserves the right to accept or reject any and all proposals and to waive technicalities in submitted bids.

**BID REQUIREMENTS FOR
EQUAL EMPLOYMENT OPPORTUNITY**

All bidders seeking to do business with the City of Rockford are **REQUIRED** to submit with any formal, sealed bid all of the following documents and information, attached herewith, completed and signed:

1. Equal Employment Opportunity Affirmative Action Plan Statement of Policy.
2. The Statement of Non-Compliance and Certificate of Non-Segregated Facilities.
3. The Contractor or Vendor Workforce Data Form listing all current employees, by classification, directly employed by the bidder. All categories of information requested must be supplied.
Note: The number of employees must be entered under each category (no check marks)

Below are the Federal definitions of the following racial groups accepted as minorities by the City of Rockford:

Black: A person having origins in any of the Black racial groups of Africa, not of Hispanic origin.

Hispanic: A person of Spanish or Portuguese culture with origins in Mexico, South or Central America, or the Caribbean Islands, regardless of race.

Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes for example, China, Japan, Korea, the Philippine Republic and Samoa.

American Indian or Alaskan Native: A person having origins in any of the original peoples of North America.

4. Your State of Illinois Pre-Qualification Certification Number, issued by the Illinois Department of Human Rights for the Illinois Department of Human Rights Act, **must provide expiration date entered in the place provided therefore.**
5. Certificate of Non-Barred Bidding
6. All executed Subcontractor/Leased Operator and Supplier forms.

If you have not obtained your State of Illinois Pre-Qualification Number (item #4), by signing these documents you agree to make application for this number within 30 days from the date of bid opening.

ANY BID WHICH FAILS TO INCLUDE THE CITY OF ROCKFORD EEO PAGES 2, 4, AND 5, COMPLETED AND SIGNED WITH YOUR SEALED BID WILL NOT BE READ AND WILL NOT BE CONSIDERED – NO EXCEPTIONS.

Falsification of any required Equal Employment Opportunity or Affirmative Action information on the part of the bidder could result in rejection of the bid submitted or in the case where a contract has already been awarded, in the cancellation of said contract.

Any questions pertaining to E.E.O. requirements should be addressed to Ron Moore, Diversity Procurement Officer, Legal Department, 425 East State Street, Rockford, Illinois 61104, Phone: (815) 987-5622 or ron.moore@rockfordil.gov

EQUAL EMPLOYMENT OPPORTUNITY
AFFIRMATIVE ACTION PLAN
STATEMENT OF POLICY

It is the policy of this company, _____
to provide equal employment opportunity without regard to race, religion, color, national origin, handicap, age or sex through a program of positive action affecting all employees. In this program, our company carries out the requirements of Federal Executive orders 11246 and 11375, Civil Rights Act of 1964, Equal Employment Act of 1972, and all other applicable laws, and indicates its active support of the principle of equal opportunity in employment.

At present, _____ % of our work force are minorities and _____ % of our work force are females, and we will attempt to utilize minorities and females through a positive, continuing program in all jobs for which we contract in the future. Our company will utilize referrals from the City of Rockford's Diversity Procurement Officer for use of minorities and females regarding any future job vacancies.

It is also our intent to make efforts to purchase supplies or equipment from small business concerns located in the City of Rockford or counties of Winnebago or Boone and owned in substantial part (at least 51 per cent) by minorities or females.

_____ is the official who will be responsible for implementing this policy statement.

_____ will be designated as the Equal Opportunity Officer in our company, responsible for submission of all required equal employment opportunity documents.

In addition, _____ is hereby authorized to sign payroll as well as this company's officers. (NOTE: If only officers will be authorized to sign payrolls, please fill in "No One" in this space.)

STATEMENT OF NONCOMPLIANCE

If the equal employment opportunity hearing committee determines that a contractor, subcontractor/leased operator of equipment or bidder is not in compliance with this chapter, (also known as Chapter 11, Article III the City of Rockford Equal Opportunity Employment Ordinance), the hearing committee shall issue and serve upon such person a written statement of noncompliance setting forth the manner in which it finds such person has violated this chapter, and imposing and/or requiring appropriate sanctions, including, but not limited to any and/or all of the following:

- a. Denying, suspending or revoking qualifications, or declaring the contractor or subcontractor irresponsible and ineligible for future contracts or subcontracts until such time as the contractor or subcontractor shall demonstrate to the equal employment opportunity hearing committee that it is in compliance;
- b. Withholding or delaying payment on the contractor or;
- c. Suspending, avoiding or canceling contract work.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid.

The bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors/leased operators of equipment for specific time periods) he/she will obtain identical certification from proposed subcontractors/leased operators of equipment from the provisions of the Equal Opportunity clause, and that he/she will retain such certification in his/her files.

CERTIFICATE OF NON-BARRED BIDDING

The undersigned certifies that it is not barred from bidding on this contract as a result of a conviction for the violation of State laws prohibiting bid rigging or bid rotating. The undersigned also certifies that current or prospective employees, contractors, and subcontractors/leased operators of equipment are not listed as Excluded Individuals/Entities with the US Government, as maintained by the US General Services Administration.

By signing below, the firm agrees that all information provided in the previous pages is accurate, and that if the firm below does not currently have a Department of Human Rights number they will apply for one within thirty days with the State of Illinois.

Authorized Signature

Title

Firm

Our firm is a:

Minority Business Enterprise

City-Certified? Yes _____ No _____

Women Business Enterprise

City Certified? Yes _____ No _____

Neither

(Revised 12/21/09)

WATER OPERATIONAL DATA MANAGEMENT SYSTEM

Overview

The Water Division currently gathers a considerable amount of information on its production and storage facilities using its SCADA system. The data are processed using a number of spreadsheets and databases. The Water Division desires a comprehensive Operational Data Management System (ODMS) to improve the efficiency and effectiveness in accessing, processing and reporting water production data. A description of the Rockford Water System is attached.

Project Scope of Work

The final scope of the Operational Data Management System will be developed cooperatively by the selected Consultant and the City, and negotiated as part of the Engineering Agreement. It is anticipated that the scope of work will include, but may not be limited to, the following tasks:

1. Obtain and review all pertinent data and reference material from the City.
2. Meet with appropriate City staff and facilitate the process of identifying data needs.
3. Present to City staff options for meeting needs and costs associated with various ODMS approaches.
4. Create an ODMS Implementation Plan with appropriate narrative, tables and charts that describes the selected options, estimated costs and schedules.
5. Implement ODMS in phases.

RFP Submittal Requirements

Proposals shall be delivered on or before **11:00 a.m.**, local Rockford time on **Thursday, November 15, 2012**, for Water Operational Data Management System as outlined in the scope of services contained herein.

Your Proposal is to be delivered in sealed envelopes marked with the project name(s) to the Central Services Manager for the City of Rockford, 4th Floor, City Hall, 425 East State Street Rockford, IL 61104.

The specified project and description is presented within this document. The described project should be reviewed and three (3) copies of the Proposal submitted.

At a minimum, the proposal should include:

- The name or names of individuals in the firm(s) who will be assigned key project responsibilities with particular attention to the qualifications, competence and past performance as related to this specific project.

- Education, experience or expertise of those individuals noted above that will be involved with the management and completion of the project. The project manager should be identified within the proposal.
- The firm's general experience, ability and history of performance of projects similar to the one under consideration.
- Availability of adequate personnel, equipment and facilities to complete the work in the required time.
- Statement of Project Understanding. This item should include the firm's approach to the overall project (i.e. scope of work), and the understanding of the design, funding and implementation issues. It should incorporate communication, relative firm location, and cost control and construction services, if required.
- The present workload and present and future commitments of available personnel, particularly those key persons expected to be assigned to the Project.
- A specific project schedule that provides a breakdown of milestone dates for project completion based on the completion date noted below.
- The document should not exceed thirty-five (35) total pages in length.

RFP Document Format

The following format should be utilized for the assembly of the Proposal document:

- Cover Sheet
 - Cover Letter
 - Statement of Project Understanding
 - Identification of Key Personnel
 - Descriptions of Projects of Similar Size and Scope
 - Highlight Specific Experience with municipally-owned water utilities.
 - Provide examples of specific experience
 - Schedule (w/ Milestone Dates)
 - Statement of Workload
- All pages should be bound into the Proposal document.

FUNDING ALLOCATIONS: 2012 and 2013 – Water Division Operating Budget

Project Budget: 2012: \$50,000
 2013: \$50,000

CURRENT SCHEDULE

| | |
|------------------|---------------|
| Contract Award | December 2012 |
| Study and Design | 4 months |
| Implementation | 6 months |

Contacts:

**Tim Holdeman, Water Superintendent
City of Rockford, Department of Public Works
425 East State Street, Rockford, IL 61104
(815) 987-5738**

WATER SYSTEM DESCRIPTION

Rockford Water System

The City of Rockford Water system delivers an average of approximately 20 million gallons of water each day to a population of over 150,000 people distributed over an area of nearly 100 square miles. The water system service area extends from east of the I-90 Tollway to Meridian Road on the west, and from the Kishwaukee River on the south to the communities of Machesney Park and Loves Park on the north. The area is roughly bisected by the Rock River and includes land at elevations ranging from 650 feet above mean sea level along the rock and Kishwaukee Rivers to nearly 950 feet above sea level at the northeastern edge of the service area.

Rockford relies entirely on groundwater as a source of its potable water. Currently the City pumps groundwater from a total of 31 water supply wells. These wells provide the source water for 19 base unit-wells and 8 secondary unit-wells, located throughout the service area. Of these wells, 27 pump water from a deep sandstone aquifer system. These deep wells represent about 85% of the City's available supply capacity. The remaining 4 wells draw water from a shallow sand and gravel aquifer and provide approximately 15% of the City's current supply capacity. Water is pumped from each well to one of 27 storage facilities and then re-pumped out into the distribution network by booster pumps. Figure 1.1 shows approximate limits of the existing Rockford water system service area and the locations of the well and major storage facilities.

The City treats the groundwater with chlorine for disinfection. Fluoride is added to promote dental health. A food grade polyphosphate is also added to the groundwater. This process coats internal plumbing and prevents lead and copper found in this plumbing from leaching into the drinking water. The City has one treatment facility that uses Granular Activated Carbon (GAC) to remove low levels of volatile organic compounds from the source water. There are 11 treatment facilities that remove naturally occurring iron from the groundwater. Iron is a mineral common to groundwater that may cause water quality issues (yellow or brown water) when it oxidizes. Of these 11 treatment facilities, 4 also use Hydrous Manganese Oxide (HMO) to remove low levels of naturally occurring radium from the groundwater. Further details related to the City of Rockford water supply facilities are included in Appendix A of this document.

Water storage facilities in the Rockford water system provide roughly 28.3 million gallons of storage volume for operation, fire protection, and reserve needs. More than 91% of this volume, or about 25.8 million gallons, is provided by six large ground reservoirs located at well/booster station sites. Two elevated water tanks provide another 2.5 million gallons of storage. The remaining storage capacity is provided by a total of 22 small reservoirs located at the remaining well/booster pumping facilities.

Water is distributed to the City's customers through a network comprised of more than 816 miles of pipeline ranging from 4-inches to 35-inches in diameter. The distribution system also includes more than 16,200 valves and 6200 hydrants. The system is divided into primary pressure zones (East High,

East, Central and West High.) Two interzone booster stations and ten zone control valves provide for the transfer of water across the pressure zone boundaries. Figure 1.3 presents a simplified hydraulic profile of the existing zone system.

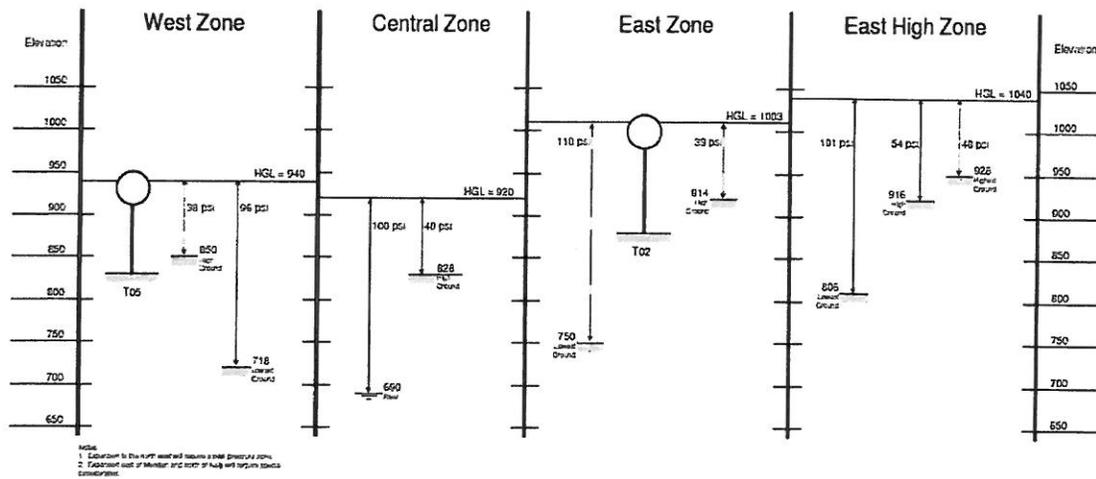


Figure 1.2 - Hydraulic Profile: Rockford Water System June 17, 2011

The pressure zones operate as independent water supply systems to establish their different HGL's which helps maintain acceptable service pressure in each zone. Excess capacity from one zone can be delivered to another through interzone pump stations and control valves.

Distribution service pressures vary widely throughout the system. Average system pressures are typically between 50 and 70 psi. Service pressures in particularly high or low elevation areas or along the pressure zone boundaries may vary from as low as 45 psi to greater than 100 psi under certain operating conditions.

1.2 Water System Demands

Over the past 40 years, the demand for water within the City of Rockford has been declining. Reductions in water use by major industrial users have been generally responsible for this decrease in demand. Figure 1.3 shows a plot of historic water pumpage data for the City for average day and maximum day conditions. Current average day demand for the system is approximately 20 mgd. For operational and planning purposes a design maximum day demand of 52 mgd is used by Rockford Water Division.

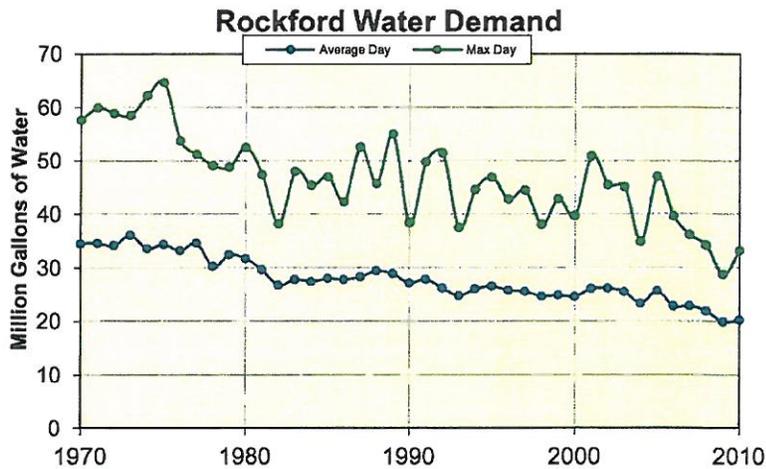


Figure 1.3 – Historic Average Day and Maximum Day Pumpage

1.3 Telemetry and Control System

Operation of the Rockford Water System is controlled through a Supervisory Control and Data Acquisition (SCADA) system located at the Water Operations Center at 1111 Cedar Street adjacent to the Stanley Street Booster Station. SCADA displays and alarms are monitored 24 hours a day, 7 days a week by a SCADA system operator at the Water Operations Center. Operation is further supported by daily inspections of wells and pumping facilities by Water Division Staff as well as regular distribution piping and valve maintenance.

The telemetry and control system is an Allen Bradley system that was installed beginning in 2007 as part of the Water System Rehabilitation Project. The SCADA system gives operators the ability to monitor the overall status of the water distribution system, operate specific facilities, such as wells, booster pumps, zone control valves, treatment filters and chemical feed equipment. The system also provides remote monitoring of the following parameters at supply facilities, booster stations, zone control valves, treatment plants, and elevated tanks:

- Flows at well pumps, booster pumps, zone control valves, and treatment vessels
- Pressure at well pumps, booster pumps, zone control valves, and treatment vessels
- Treatment Chemical Use
- Reservoir Levels
- Booster and Well Pump Operation Status (On/Off)
- Site Access
- Facility Temperature (at zone control valves)

The SCADA system is comprised of approximately 13 Remote Terminal Unit (RTU) nodes and 32 Programmable Logic Controller (PLC) nodes located at base and secondary water supply facilities, as well as at booster pump stations, zone control valves, and elevated storage tanks. Two additional nodes are

monitored for the Army Corps of Engineers. The PLCs and RTUs receive input from sensory instruments located at each facility. A radio system and antenna are installed at each site for telemetry.

Data points at each facility are transmitted to the Central Station, located at the Water Operations Center. The SCADA system is installed on dual redundant servers with Windows 2003 as the operating system. The server is located in the Server Room at the Water Operations Center and is maintained by the SCADA Systems Supervisor. The system is connected to the network owned by City of Rockford through a secure firewall also located at the Water Operations Center. The domain for the system also consists of three client stations, a printer and a base PLC to receive and send data through a local access point radio.

The transmission medium for the system is Internet Protocol based addressing with Ethernet networking. The network utilizes 900 MHz Ethernet radios with 120 bit encryption to provide communication. The system also uses three DSL connections with Cisco routers to communicate with two sites. Telemetry information is processed and passed to servers using Ethernet IP switch. Data is carried by copper wire, where RTU and PLC translate the signals to digital format used by SCADA. Transmission Control Protocol/Internet Protocol (TCP/IP) with routable IP addressing is used for transport on the network.

The Human to Machine Interface (HMI) is provided by GE Intelligent Systems Ifix 5.0 software. This is run on three thin client nodes and the servers. The package provides graphics interface, alarming, process control and historical data archiving. It embodies a display and operation philosophy that structures and prioritizes the presentation of information to the operator. This design ensures that critical information such as alarms and the subsequent access to controls for fault mitigation is in the forefront at all times. Screens are provided for each remote site, with control data superimposed onto schematics of the pumping and process equipment.

Redundancy in the number of sites and the control systems in place provide security. Each site is fully capable of operating independent of control from the Water Operations Center, and the system is broad enough to operate with the loss of several sites.

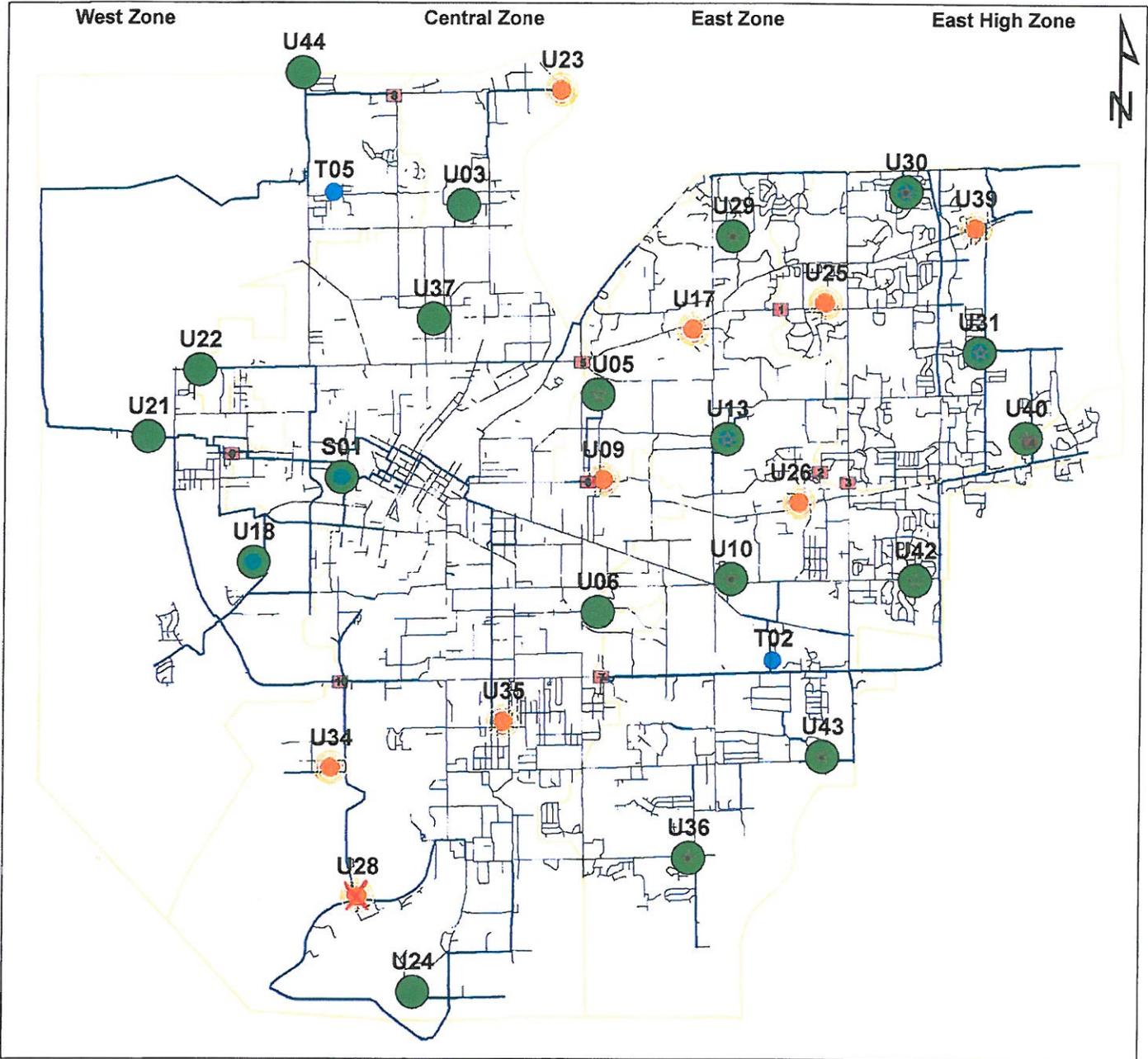
Water System Operation Description

The water system is divided into four pressure zones. Each pressure zone is run independently with the ability to transfer water between neighboring zones. System operators select a roster of booster pumps at facilities to provide adequate supply to meet system demands for each day and assigns each pump a designation (e.g. lead, lag 1, or lag 2). These pumps operate automatically to maintain the discharge head (i.e. pressure) within a certain tolerance that is programmed into each pump. The tolerance and other operating characteristics are dependent on the particular designation of the pump. The logic exists locally at each supply facility, not at the Central Station. Operators modify or interrupt automatic operation of the facilities as maintenance needs require, such as filter backwashes or pump maintenance runs. The system also provides the Operator the ability to start and stop pumps manually, if desired.

In addition to the local supply provided within each pressure zone, water can be transferred between zones. Water can be pumped from lower zones to higher zones through booster stations. Water can also be transferred from higher zones to lower zones through Zone Control Valves.

Well pumps operate automatically based on the water level of the receiving reservoir. The need for filter vessel backwashes is determined by the operator based on data provided from the SCADA system, such as differential pressure and through-put. Filter vessel backwashes are manually initiated as needed once particular operating criteria is met, such as filled local reservoirs or pump designation assignment requirements.

Alarms also annunciated at the SCADA computer. Those alarms include pressures, reservoir water levels, and building entries.



0 0.5 1 2 Miles

LEGEND

- | | | | | | |
|-------------------|---------------------|-------------------------------|--------|----------------|-----------------|
| Facilities | | Treatment Active Mains | | Pressure Zones | |
| | Base Supply | | Radium | | <= 6-Inch |
| | Secondary Supply | | Mn/Fe | | System Boundary |
| | Reservoirs | | | | 8-12 Inch |
| | Zone Control Valves | | | | 16-36 Inch |
| | | | | | Hydrography |
| | | | | | Railroads |



Water System
June 30, 2011



Rockford SCADA Network Overview

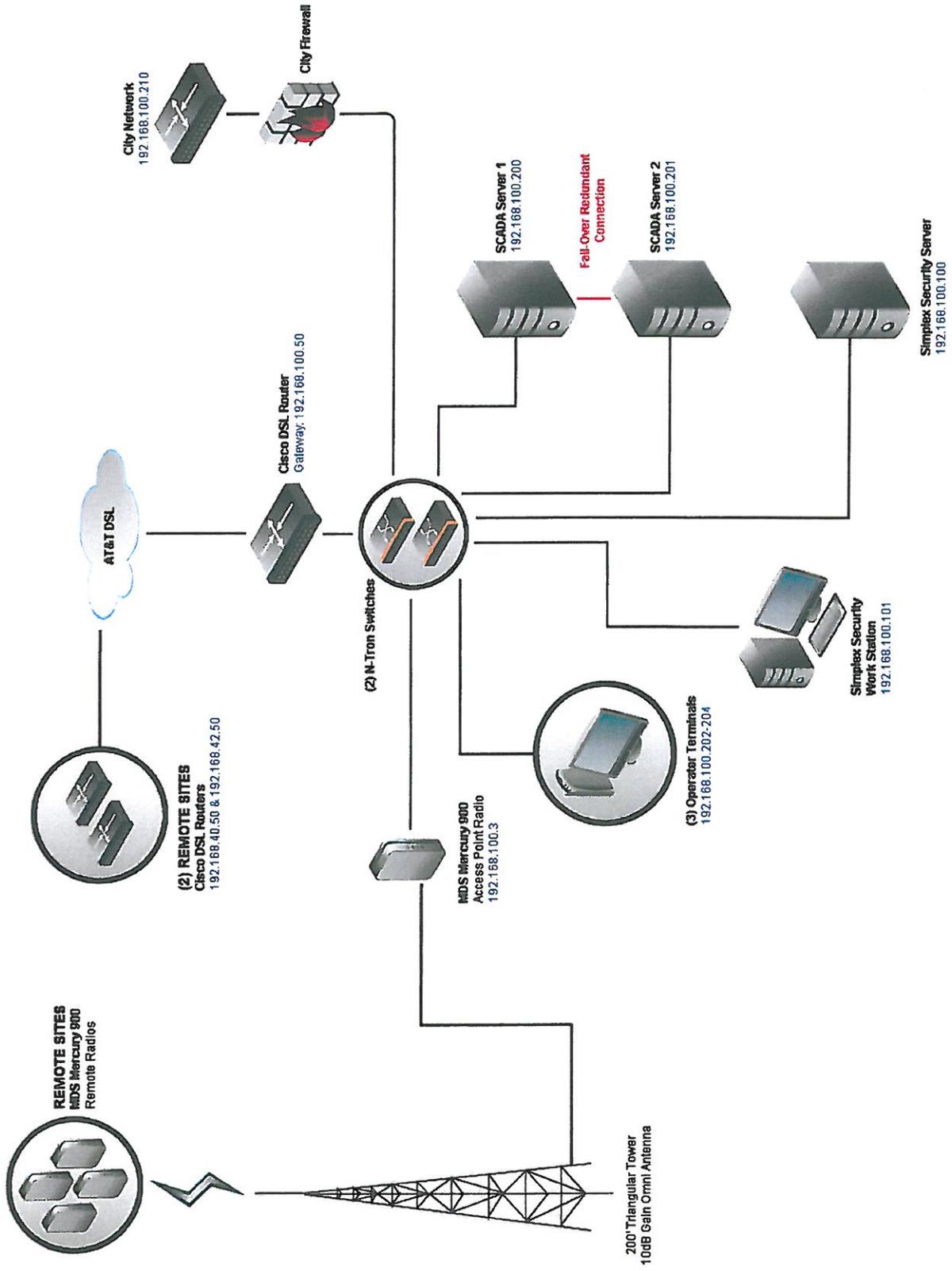


Exhibit 9A-10/11 Water Storage

| Site Name | Site Location | Site Description | Hydraulic Zone | Storage (gallons) | Bottom Elev. | Overflow Elev. | Depth of Tank |
|-------------------------------|--|----------------------------|----------------|-------------------------|--------------|----------------|---------------|
| Group Well #1 | Cedar and Tay | Well | Central | | | | |
| Group Well #2 | Cedar and Stanley | Well | Central | | | | |
| Group Well #5 | Tay and Preston | Well | Central | | | | |
| 3 | 1404 Riverbluff Blvd. | Unit Well | Central | 100,000 | | | |
| 05 & 5A | 2526 Pelham Rd. | Unit Well | East | 350,000 | | | |
| 6 | 2604 19th Ave | Unit Well | Central | 52,000 | | | |
| 09A | 2708 Crosby St. | Unit Well | Central | 43,500 | | | |
| 10 | 4316 Newburg Rd. | Unit Well & Ground Storage | East | 186,000 | 862 | 878 | 16.0 |
| 13 | 4625 Skyline Dr. | Unit Well & Ground Storage | East | 5,200,000 | 850 | 898 | 47.5 |
| 17 | 3700 Brookview Rd. | Unit Well | East | 57,500 | | | |
| 18 | 1409 S. Johnston Ave. | Unit Well & Ground Storage | Central | 5,000,000 | 821 | 837 | 16.2 |
| 21 | 111 Daisyfield Rd. | Unit Well | Central | 39,000 | | | |
| 22 | 5110 Auburn St. | Unit Well | Central | 67,500 | | | |
| 23 | 1206 Elmwood Rd. | Unit Well | Central | 65,000 | | | |
| 24 | 6475 Cessna Dr. | Unit Well | Central | 65,000 | | | |
| 25 | 5602 Springcreek Rd. | Unit Well | East | 69,000 | | | |
| 26 | 5516 E. State St. | Unit Well | East | 65,000 | | | |
| 28 | 5400 Beltline Rd. | Unit Well | Central | 65,000 | | | |
| 29 | 4750 Pepper Dr. | Unit Well | East | 65,000 | | | |
| 30 | 6544 Palo Verde. | Unit Well & Ground Storage | East | 3,500,000 | 910 | 937 | 27.2 |
| 31 | 1780 Bell School Rd. | Unit Well & Ground Storage | East | 5,000,000 | 885 | 901 | 16.0 |
| 34 | 3945 Dawes Rd. | Unit Well | Central | 148,000 | | | |
| 35 | 2944 Bildahl St. | Unit Well | Central | 65,000 | | | |
| 36 | 4141 Samuelson Rd. | Unit Well | East | 49,000 | | | |
| 37 | 2102 Huffman Blvd. | Unit Well | Central | 148,000 | | | |
| 39 | 7423 Springbrook Rd. | Unit Well | East | 150,000 | | | |
| 40 | 788 Lyford Rd. | Unit Well | East | 148,000 | | | |
| 42 | 6733 Newburg Rd. | Unit Well | East | 150,000 | | | |
| 43 | 3447 Publishers Dr. | Unit Well | East | 166,000 | | | |
| 44 | 5250 Owen Center Rd. | Unit Well | West | 150,000 | | | |
| 45 | 1141 Cedar St. | Well & Ground Storage | Central | 5,200,000 | 734 | 751 | 17.3 |
| WOC | 1111 Cedar St. | Operations Center | | | | | |
| TO5 | 3788 Christopher Dr. | Water Storage Tower | West | 1,500,000 | 912 | 952 | 40 |
| TO2 | 2310 Wentworth Dr. | Water | East | 1,000,000 | 972 | 1015 | 43 |
| N. Rockton & Samuelson inter- | 4834 N. Rockton Ave. 2929 Samuelson Rd | Interzone | | | | | |
| Zone Control Valve (ZCV) 1 | Spring Creek and Springdale | Spring Creek | Zone Control | | | | |
| Zone Control Valve (ZCV) 2 | 5701 Strathmoor Drive | 5701 Strathmoor | Zone Control | | | | |
| Zone Control Valve (ZCV) 3 | N. Mulford Rd. and Mulford Village Dr. | Rd. and Mulford | Zone Control | | | | |
| Zone Control Valve (ZCV) 4 | 738 Lyford Road | 738 Lyford Road | Zone Control | | | | |
| Zone Control Valve (ZCV) 5 | Highest Rd. and Spring Creek Road | and Spring Creek Road | Zone Control | | | | |
| Zone Control Valve (ZCV) 6 | Crosby St. and Dawson Ave. | and Dawson Ave. | Zone Control | | | | |
| Zone Control Valve (ZCV) 7 | Harrison Ave. and 22nd St. | Harrison Ave. and 22nd St. | Zone Control | | | | |
| Zone Control Valve (ZCV) 8 | Rockton Ave. and Elmwood Rd. | and Elmwood Rd. | Zone Control | | | | |
| Zone Control Valve (ZCV) 9 | 3030 Chestnut st. | 3030 Chestnut st. | Zone Control | | | | |
| Zone Control Valve (ZCV) 10 | Harrison Ave. and Main St. | Harrison Ave. and Main St. | Zone Control | | | | |
| | | | | Average Daily Minimum * | | | |
| | | | | Total Elevated Storage | 2,500,000 | 1,250,000 | |
| | | | | Total Ground Storage | 26,363,500 | 13,181,750 | |
| | | | | Total Storage | 28,863,500 | 14,431,750 | |
| Estimate at 50% of total | | | | | | | |

Exhibit 9A-12/13 - Pumps

| Site Name | Site Location | Site Description | Hydraulic Zone | Rated Capacity MGD | Rated Capacity GPM | Ft | psi |
|------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------|--------------------|-----|-----|
| Stanley St. P.S. | 1141 Cedar St. | Pumping Station, Booster 1 | Central | 1.73 | 1,200 | 192 | 444 |
| Stanley St. P.S. | 1141 Cedar St. | Pumping Station, Booster 2 | Central | 2.88 | 2,000 | 192 | 444 |
| Stanley St. P.S. | 1141 Cedar St. | Pumping Station, Booster 3 | Central | 2.88 | 2,000 | 192 | 444 |
| Stanley St. P.S. | 1141 Cedar St. | Pumping Station, Booster 4 | Central | 2.88 | 2,000 | 192 | 444 |
| Stanley St. P.S. | 1141 Cedar St. | Pumping Station, Booster 5 | Central | 2.88 | 2,000 | 192 | 444 |
| 3 | 1404 Riverbluff Blvd. | Unit Well, Booster 1 | Central | 2.16 | 1,500 | 206 | 476 |
| 05 & 5A | 2526 Pelham Rd. | Unit Well, Booster 1 | East | 1.99 | 1,380 | 225 | 520 |
| 05 & 5A | 2526 Pelham Rd. | Unit Well, Booster 2 | East | 3.97 | 2,760 | 225 | 520 |
| 6 | 2604 19th Ave | Unit Well, Booster 1 | Central | 1.87 | 1,300 | 170 | 393 |
| 09A | 2708 Crosby St. | Unit Well, Booster 1 | Central | 2.59 | 1,800 | 154 | 356 |
| 09A | 2708 Crosby St. | Unit Well, Booster 2 | Central | 2.59 | 1,800 | 154 | 356 |
| 10 | 4316 Newburg Rd. | Unit Well, Booster 1 | East | 3.46 | 2,400 | 154 | 356 |
| 13 | 4625 Skyline Dr. | Unit Well, Booster 1 | East | 3.46 | 2,400 | 125 | 289 |
| 13 | 4625 Skyline Dr. | Unit Well, Booster 2 | East | 3.46 | 2,400 | 125 | 289 |
| 16 | 4550 Harrison Ave. | Unit Well, Booster 1 | East | 2.02 | 1,400 | 185 | 427 |
| 17 | 3700 Brookview Rd. | Unit Well, Booster 1 | East | 1.44 | 1,000 | 275 | 635 |
| 17 | 3700 Brookview Rd. | Unit Well, Booster 2 | East | 1.44 | 1,000 | 275 | 635 |
| 18 | 1409 S. Johnston Ave. | Pumping Station, Booster 1 | Central | 1.73 | 1,200 | 151 | 349 |
| 18 | 1409 S. Johnston Ave. | Pumping Station, Booster 2 | Central | 1.73 | 1,200 | 151 | 349 |
| 18 | 1409 S. Johnston Ave. | Pumping Station, Booster 3 | Central | 1.73 | 1,200 | 151 | 349 |
| 18 | 1409 S. Johnston Ave. | Pumping Station, Booster 4 | Central | 1.73 | 1,200 | 151 | 349 |
| 21 | 111 Daisyfield Rd. | Unit Well, Booster 1 | Central | 1.73 | 1,200 | 150 | 347 |
| 22 | 5110 Auburn St. | Unit Well, Booster 1 | Central | 2.95 | 2,050 | 150 | 347 |
| 23 | 1206 Elmwood Rd. | Unit Well, Booster 1 | Central | 2.88 | 2,000 | 200 | 462 |
| 23 | 1206 Elmwood Rd. | Unit Well, Booster 2 | Central | 2.88 | 2,000 | 200 | 462 |
| 24 | 6475 Cessna Dr. | Unit Well, Booster 1 | Central | 3.02 | 2,100 | 230 | 531 |
| 24 | 6475 Cessna Dr. | Unit Well, Booster 2 | Central | 3.02 | 2,100 | 230 | 531 |
| 25 | 5602 Springcreek Rd. | Unit Well, Booster 1 | East | 1.87 | 1,300 | 173 | 400 |
| 26 | 5516 E. State St. | Unit Well, Booster 1 | East | 2.45 | 1,700 | 216 | 499 |
| 28 | 5400 Bellline Rd. | Unit Well, Booster 1 | Central | 3.02 | 2,100 | 168 | 388 |
| 28 | 5400 Bellline Rd. | Unit Well, Booster 2 | Central | 3.17 | 2,200 | 212 | 490 |
| 29 | 4750 Pepper Dr. | Unit Well, Booster 1 | East | 1.87 | 1,300 | 195 | 450 |
| 29 | 4750 Pepper Dr. | Unit Well, Booster 2 | East | 0.94 | 650 | 195 | 450 |
| 30 | 6544 Palo Verde. | Unit Well, Booster 1 | East | 2.88 | 2,000 | 120 | 277 |
| 31 | 1780 Bell School Rd. | Pumping Station, Booster 1 | East | 3.02 | 2,100 | 180 | 416 |
| 31 | 1780 Bell School Rd. | Pumping Station, Booster 2 | East | 3.02 | 2,100 | 168 | 388 |
| 31 | 1780 Bell School Rd. | Pumping Station, Booster 3 | East | 3.02 | 2,100 | 168 | 388 |
| 31 | 1780 Bell School Rd. | Pumping Station, Booster 4 | East | 3.02 | 2,100 | 168 | 388 |
| 34 | 3945 Dawes Rd. | Unit Well, Booster 1 | Central | 2.59 | 1,800 | 170 | 393 |
| 34 | 3945 Dawes Rd. | Unit Well, Booster 2 | Central | 1.30 | 900 | 170 | 393 |
| 35 | 2944 Bildahl St. | Unit Well, Booster 1 | Central | 3.53 | 2,450 | 191 | 441 |
| 36 | 4141 Samuelson Rd. | Unit Well, Booster 1 | East | 2.95 | 2,050 | 200 | 462 |
| 37 | 2102 Huffman Blvd. | Unit Well, Booster 1 | Central | 2.59 | 1,800 | 197 | 455 |
| 37 | 2102 Huffman Blvd. | Unit Well, Booster 2 | Central | 1.30 | 900 | 177 | 409 |
| 39 | 7423 Springbrook Rd. | Unit Well, Booster 1 | East | 2.30 | 1,600 | 183 | 423 |
| 39 | 7423 Springbrook Rd. | Unit Well, Booster 2 | East | 1.15 | 800 | 173 | 400 |
| 40 | 788 Lyford Rd. | Unit Well, Booster 1 | East | 1.30 | 900 | 230 | 531 |
| 40 | 788 Lyford Rd. | Unit Well, Booster 2 | East | 2.59 | 1,800 | 230 | 531 |
| 42 | 6733 Newburg Rd. | Unit Well, Booster 1 | East | 1.30 | 900 | 188 | 434 |
| 42 | 6733 Newburg Rd. | Unit Well, Booster 2 | East | 2.59 | 1,800 | 200 | 462 |
| 43 | 3447 Publishers Dr. | Unit Well, Booster 1 | East | 2.59 | 1,800 | 220 | 508 |
| 43 | 3447 Publishers Dr. | Unit Well, Booster 2 | East | 1.30 | 900 | 219 | 506 |
| 44 | 5250 Owen Center Rd. | Unit Well, Booster 1 | West | 2.59 | 1,800 | 210 | 485 |
| 44 | 5250 Owen Center Rd. | Unit Well, Booster 2 | West | 1.30 | 900 | 200 | 462 |
| | | | | | 89,340 | | |
| N. Rockton & Elmwood Booster | 4834 N. Rockton Ave. | Interzone Booster 1 | West to Central | 1.08 | 750 | 90 | 208 |
| N. Rockton & Elmwood Booster | 4834 N. Rockton Ave. | Interzone Booster 2 | West to Central | 1.08 | 750 | 90 | 208 |
| Samuelson inter-zone | 2929 Samuelson Rd | Interzone Booster 1 | East to Central | 0.96 | 670 | 135 | 312 |
| Samuelson inter-zone | 2929 Samuelson Rd | Interzone Booster 2 | East to Central | 0.96 | 670 | 135 | 312 |
| Zone Control Valve (ZCV) 1 | Spring Creek and Springdale | Spring Creek and Springdale | Hydraulic Zone Control Valve Station | E. High to East | | | |

Exhibit 9A-12/13 - Pumps

| Site Name | Site Location | Site Description | Hydraulic Zone | Rated Capacity MGD | Rated Capacity GPM | Ft | psi |
|-----------------------------|--|--|---|--------------------|--------------------|----|-----|
| Zone Control Valve (ZCV) 2 | 5701 Strathmoor Drive | 5701 Strathmoor Drive | Hydraulic Zone Control Valve Station | E. High to East | | | |
| Zone Control Valve (ZCV) 3 | N. Mulford Rd. and Mulford Village Dr. | N. Mulford Rd. and Mulford Village Dr. | Hydraulic Zone Control Valve Station | E. High to East | | | |
| Zone Control Valve (ZCV) 4 | 738 Lyford Road | 738 Lyford Road | Hydraulic Zone Control Valve Station | E. High to East | | | |
| Zone Control Valve (ZCV) 5 | Highcrest Rd. and Spring Creek Road | Highcrest Rd. and Spring Creek Road | Hydraulic Zone Control Valve Station | East to Central | | | |
| Zone Control Valve (ZCV) 6 | Crosby St. and Dawson Ave. | Crosby St. and Dawson Ave. | Hydraulic Zone Control Valve Station | East to Central | | | |
| Zone Control Valve (ZCV) 7 | Harrison Ave. and 22nd St. | Harrison Ave. and 22nd St. | Hydraulic Zone Control Valve Station | East to Central | | | |
| Zone Control Valve (ZCV) 8 | Rockton Ave. and Elmwood Rd. | Rockton Ave. and Elmwood Rd. | Hydraulic Zone Control Valve Station (inside ERB) | West to Central | | | |
| Zone Control Valve (ZCV) 9 | 3030 Chestnut st. | 3030 Chestnut st. | Hydraulic Zone Control Valve Station | West to Central | | | |
| Zone Control Valve (ZCV) 10 | Harrison Ave. and Main St. | Harrison Ave. and Main St. | Hydraulic Zone Control Valve Station | West to Central | | | |

| Exhibit 9A-14 - Water Treatment Facilities | | | | | |
|--|-----------------------|----------------|-------------------|-----------------------|-----------------------|
| Site Name | Site Location | Hydraulic Zone | Filter Type | Filter Capacity MGD | Filter Capacity GPM |
| 05 & 5A | 2526 Pelham Rd. | East | Iron & Managanese | 3.46 | 2,400 |
| 10 | 4316 Newburg Rd. | East | Iron & Radium | 2.66 | 1,850 |
| 13 | 4625 Skyline Dr. | East | Iron | 2.66 | 1,850 |
| 29 | 4750 Pepper Dr. | East | Iron & Radium | 2.30 | 1,600 |
| 30 | 6544 Palo Verde. | East | Iron & Radium | 2.02 | 1,400 |
| 31 | 1780 Bell School Rd. | East | Iron | 2.66 | 1,850 |
| 35 | 2944 Bildahl St. | Central | Iron | 2.66 | 1,850 |
| 36 | 4141 Samuelson Rd. | East | Iron & Radium | 2.66 | 1,850 |
| 40 | 788 Lyford Rd. | East | Iron | 2.88 | 2,000 |
| 42 | 6733 Newburg Rd. | East | Iron | 2.88 | 2,000 |
| 43 | 3447 Publishers Dr. | East | Iron & Radium | 2.88 | 2,000 |
| | | | | 29.73 | |
| Non-Treatment Facilities | | | | | |
| Site Name | Site Location | Hydraulic Zone | Filter Type | Facility Capacity MGD | Facility Capacity GPM |
| 3 | 1404 Riverbluff Blvd. | Central | None | 1.98 | 1,375 |
| 6 | 2604 19th Ave | Central | None | 1.80 | 1,250 |
| 9 | 2708 Crosby St. | Central | None | 2.59 | 1,800 |
| 17 | 3700 Brookview Rd. | East | None | 2.02 | 1,400 |
| 18 | 1409 S. Johnston Ave. | West | None | 2.66 | 1,650 |
| 21 | 111 Daisyfield Rd. | Central | None | 1.73 | 1,200 |
| 22 | 5110 Auburn St. | West | None | 2.16 | 1,500 |
| 23 | 1206 Elmwood Rd. | Central | None | 2.27 | 1,575 |
| 24 | 6475 Cessna Dr. | Central | None | 3.17 | 2,200 |
| 25 | 5602 Springcreek Rd. | East | None | 1.87 | 1,300 |
| 26 | 5516 E. State St. | East | None | 2.38 | 1,650 |
| 34 | 3945 Dawes Rd. | Central | None | 2.59 | 1,800 |
| 37 | 2102 Huffman Blvd. | Central | None | 3.02 | 2,100 |
| 39 | 7423 Springbrook Rd. | East | None | 2.22 | 1,540 |
| 44 | 5250 Owen Center Rd. | West | None | 3.17 | 2,200 |
| 45 | 1141 Cedar St. | Central | None | 7.49 | 5,200 |
| | | | | 43.11 | |
| | Base Wells | | | 54.24 | |
| | Secondary Wells | | | 18.60 | |
| TOTAL | | | | 72.84 | |

| Site Name | Site Location | Hydraulic Zone | Filter Type | Filter Capacity MGD | Filter Capacity GPM | Well Capacity MGD | Well1 Capacity GPM |
|-----------|----------------------|----------------|-------------------|---------------------|---------------------|-------------------|--------------------|
| 05 & 5A | 2526 Pelham Rd. | East | Iron & Managanese | 3.46 | 2,400 | 4.97 | 2,200 |
| 10 | 4316 Newburg Rd. | East | Iron & Radium | 2.66 | 1,850 | 1.94 | 1,350 |
| 13 | 4625 Skyline Dr. | East | Iron | 2.66 | 1,850 | 1.91 | 1,325 |
| 29 | 4750 Pepper Dr. | East | Iron & Radium | 2.30 | 1,600 | 2.30 | 1,600 |
| 30 | 6544 Palo Verde. | East-High | Iron & Radium | 2.02 | 1,400 | 2.02 | 1,400 |
| 31 | 1780 Bell School Rd. | East-High | Iron | 2.66 | 1,850 | 2.66 | 1,850 |
| 35 | 2944 Bildahl St. | Central | VOC | 2.66 | 1,850 | 3.46 | 2,400 |
| 36 | 4141 Samuelson Rd. | East | Iron & Radium | 2.66 | 1,850 | 1.73 | 1,200 |
| 40 | 788 Lyford Rd. | East-High | Iron | 2.88 | 2,000 | 2.59 | 1,800 |
| 42 | 6733 Newburg Rd. | East | Iron | 2.88 | 2,000 | 2.88 | 2,000 |
| 43 | 3447 Publishers Dr. | East | Iron & Radium | 2.88 | 2,000 | 2.88 | 2,000 |
| | | | | 29.73 | | 29.34 | |

Non-Treatment Facilities

| Site Name | Site Location | Hydraulic Zone | Filter Type | Facility Capacity MGD | Facility Capacity GPM | | |
|-----------|-----------------------|----------------|-------------|-----------------------|-----------------------|-------|-------|
| 3 | 1404 Riverbluff Blvd. | Central | None | 1.98 | 1,375 | 1.98 | 1,375 |
| 6 | 2604 19th Ave | Central | None | 1.80 | 1,250 | 1.80 | 1,250 |
| 9 | 2708 Crosby St. | Central | None | 2.59 | 1,800 | 2.59 | 1,800 |
| 17 | 3700 Brookview Rd. | East | None | 2.02 | 1,400 | 2.02 | 1,400 |
| 18 | 1409 S. Johnston Ave. | West | None | 2.66 | 1,650 | 1.80 | 1,250 |
| 21 | 111 Daisyfield Rd. | Central | None | 1.73 | 1,200 | 2.02 | 1,400 |
| 22 | 5110 Auburn St. | West | None | 2.16 | 1,500 | 2.02 | 1,400 |
| 23 | 1206 Elmwood Rd. | Central | None | 2.27 | 1,575 | 2.27 | 1,575 |
| 24 | 6475 Cessna Dr. | Central | None | 3.17 | 2,200 | 3.17 | 2,200 |
| 25 | 5602 Springcreek Rd. | East-High | None | 1.87 | 1,300 | 1.91 | 1,325 |
| 26 | 5516 E. State St. | East | None | 2.38 | 1,650 | 2.38 | 1,650 |
| 34 | 3945 Dawes Rd. | Central | None | 2.59 | 1,800 | 2.63 | 1,825 |
| 37 | 2102 Huffman Blvd. | Central | None | 3.02 | 2,100 | 3.08 | 2,140 |
| 39 | 7423 Springbrook Rd. | East-High | None | 2.22 | 1,540 | 2.22 | 1,540 |
| 44 | 5250 Owen Center Rd. | West | None | 3.17 | 2,200 | 3.17 | 2,200 |
| 45 | 1141 Cedar St. | Central | None | 7.49 | 5,200 | 7.49 | 2,200 |
| | | | | 43.11 | | 42.52 | |

| | |
|-----------------|-------|
| Base Wells | 54.24 |
| Secondary Wells | 18.60 |
| TOTAL | 72.84 |

