



**Request for Proposal
RFP-4604-19-DH**

**Engineering Study for
City of Grand Junction
Water Treatment Plant Upgrade Project**

RESPONSES DUE:

February 27, 2019 prior to 3:00 PM MST

Accepting Electronic Responses Only

**Responses Only Submitted Through the Rocky Mountain E-Purchasing System
(RMEPS)**

<https://www.rockymountainbidsystem.com/default.asp>

(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

PURCHASING REPRESENTATIVE:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

(970) 244-1545

This solicitation has been developed specifically for a Request for Proposal intended to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All offerors are urged to thoroughly review this solicitation prior to submitting. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

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REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

- 1.1 Issuing Office:** This Request for Proposal (RFP) is issued by the City of Grand Junction. All contact regarding this RFP is directed to:

RFP QUESTIONS:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

- 1.2 Purpose:** The purpose of this RFP is to obtain proposals from qualified professional firms to provide engineering design services to develop options and conceptual engineering plans to upgrade the water treatment process at the City of Grand Junction Water Treatment Plant to enable treatment of the Gunnison River water supply to meet current drinking water standards.
- 1.3 The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4 Compliance:** All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.
- 1.5 Submission:** Please refer to section 5.0 for what is to be included. **Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "Electronic Vendor Registration Guide" at <http://www.gjcity.org/BidOpenings.aspx> for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 "Preparation and Submittal of Proposals." Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**).
- 1.6 Altering Proposals:** Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.
- 1.7 Withdrawal of Proposal:** A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline

date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.

- 1.8 Acceptance of Proposal Content:** The contents of the proposal of the successful Offeror shall become contractual obligations if acquisition action ensues. Failure of the successful Offeror to accept these obligations in a contract shall result in cancellation of the award and such vendor shall be removed from future solicitations.
- 1.9 Addenda:** All questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the City Purchasing Division. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com. Offerors shall acknowledge receipt of all addenda in their proposal.
- 1.10 Exceptions and Substitutions:** All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of work contained herein.
- 1.11 Confidential Material:** All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. **“Proprietary or Confidential Information”** is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words **“Confidential Disclosure”** and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary.
- 1.12 Response Material Ownership:** All proposals become the property of the Owner upon receipt and shall only be returned to the proposer at the Owner’s option. Selection or rejection of the proposal shall not affect this right. The Owner shall have the right to use all ideas or adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the entitled **“Confidential Material”**. Disqualification of a proposal does not eliminate this right.
- 1.13 Minimal Standards for Responsible Prospective Offerors:** A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements.

- Have adequate financial resources, or the ability to obtain such resources as required.
- Be able to comply with the required or proposed completion schedule.
- Have a satisfactory record of performance.
- Have a satisfactory record of integrity and ethics.
- Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.

1.14 Open Records: Proposals shall be received and publicly acknowledged at the location, date, and time stated herein. Offerors, their representatives and interested persons may be present. Proposals shall be received and acknowledged only so as to avoid disclosure of process. However, all proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.

1.15 Sales Tax: The Owner is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.

1.16 Public Opening: Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO, 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

2.1. Acceptance of RFP Terms: A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Letter of Interest or Cover Letter by the autographic signature of the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions including compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.

2.2. Execution, Correlation, Intent, and Interpretations: The Contract Documents shall be signed by the Owner and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Work is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.

- 2.3. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.
- 2.4. Responsibility for those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all other persons performing any of the work under a contract with the Contractor.
- 2.5. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when they find the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Contractor, of the value of Work performed and materials placed in accordance with the Contract Documents. The work performed by Contractor shall be in accordance with generally accepted professional practices and the level of competency presently maintained by other practicing professional firms in the same or similar type of work in the applicable community. The work and services to be performed by Contractor hereunder shall be done in compliance with applicable laws, ordinances, rules and regulations.
- 2.6. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.
- 2.7. Changes in the Work:** The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions. All such changes in the work shall be authorized by Change Order/Amendment and shall be executed under the applicable conditions of the contract documents. A Change Order/Amendment is a written order to the Contractor signed by

the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time.

- 2.8. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- 2.9. Uncovering & Correction of Work:** The Contractor shall promptly correct all work found by the Owner as defective or as failing to conform to the contract documents. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner.
- 2.10. Acceptance Not Waiver:** The Owner's acceptance or approval of any work furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his work. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.
- 2.11. Change Order/Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.
- 2.12. Assignment:** The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.
- 2.13. Compliance with Laws:** Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.
- 2.14. Debarment/Suspension:** The Contractor hereby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.
- 2.15. Confidentiality:** All information disclosed by the Owner to the Offeror for the purpose of the work to be done or information that comes to the attention of the Offeror during the course of performing such work is to be kept strictly confidential.
- 2.16. Conflict of Interest:** No public official and/or Owner employee shall have interest in any contract resulting from this RFP.
- 2.17. Contract:** This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the

Owner and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.

- 2.18. Project Manager/Administrator:** The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the work proposed or performed by the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Services.
- 2.19. Contract Termination:** This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.
- 2.20. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:
- 2.20.1. The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2.20.2. The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.
- 2.20.3. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- 2.21. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien workers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- 2.22. Ethics:** The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.23. Failure to Deliver:** In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.

- 2.24. Failure to Enforce:** Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.
- 2.25. Force Majeure:** The Offeror shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Offeror, unless otherwise specified in the contract.
- 2.26. Indemnification:** Offeror shall defend, indemnify and save harmless the Owner and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.27. Independent Firm:** The Offeror shall be legally considered an Independent Firm and neither the Firm nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the contract payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- 2.28. Nonconforming Terms and Conditions:** A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.
- 2.29. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.30. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.
- 2.31. Patents/Copyrights:** The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.

- 2.32. Venue:** Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- 2.33. Expenses:** Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and can not be charged to the Owner.
- 2.34. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.
- 2.35. Public Funds/Non-Appropriation of Funds:** Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.36. Collusion Clause:** Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.
- 2.37. Gratuities:** The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.
- 2.38. Performance of the Contract:** The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.
- 2.39. Benefit Claims:** The Owner shall not provide to the Offeror any insurance coverage or other benefits, including Worker's Compensation, normally provided by the Owner for its employees.
- 2.40. Default:** The Owner reserves the right to terminate the contract in the event the Contractor fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner to purchase like services elsewhere and charge the full increase in cost to the defaulting Offeror.
- 2.41. Multiple Offers:** If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.

2.42. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

2.43. Definitions:

2.43.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.

2.43.2. The term "Work" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.

2.43.3. "Contractor" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.

2.43.4. "Sub-Contractor" is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

2.44. Public Disclosure Record: If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

SECTION 3.0: INSURANCE REQUIREMENTS

3.1 Insurance Requirements: The selected Firm agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The

Firm shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types.

Firm shall procure and maintain and, if applicable, shall cause any Subcontractor of the Firm to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to The Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

(a) Worker Compensation insurance to cover obligations imposed by applicable laws for any employee engaged in the performance of work under this Contract, and Employers' Liability insurance with minimum limits of:

ONE MILLION DOLLARS (\$1,000,000) each accident,
ONE MILLION DOLLARS (\$1,000,000) disease - policy limit, and
ONE MILLION DOLLARS (\$1,000,000) disease - each employee

(b) General Liability insurance with minimum combined single limits of:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) per job aggregate.

The policy shall be applicable to all premises, products and completed operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground (XCU) hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS (\$1,000,000) each occurrence and
ONE MILLION DOLLARS (\$1,000,000) aggregate

This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS (\$1,000,000) per claim

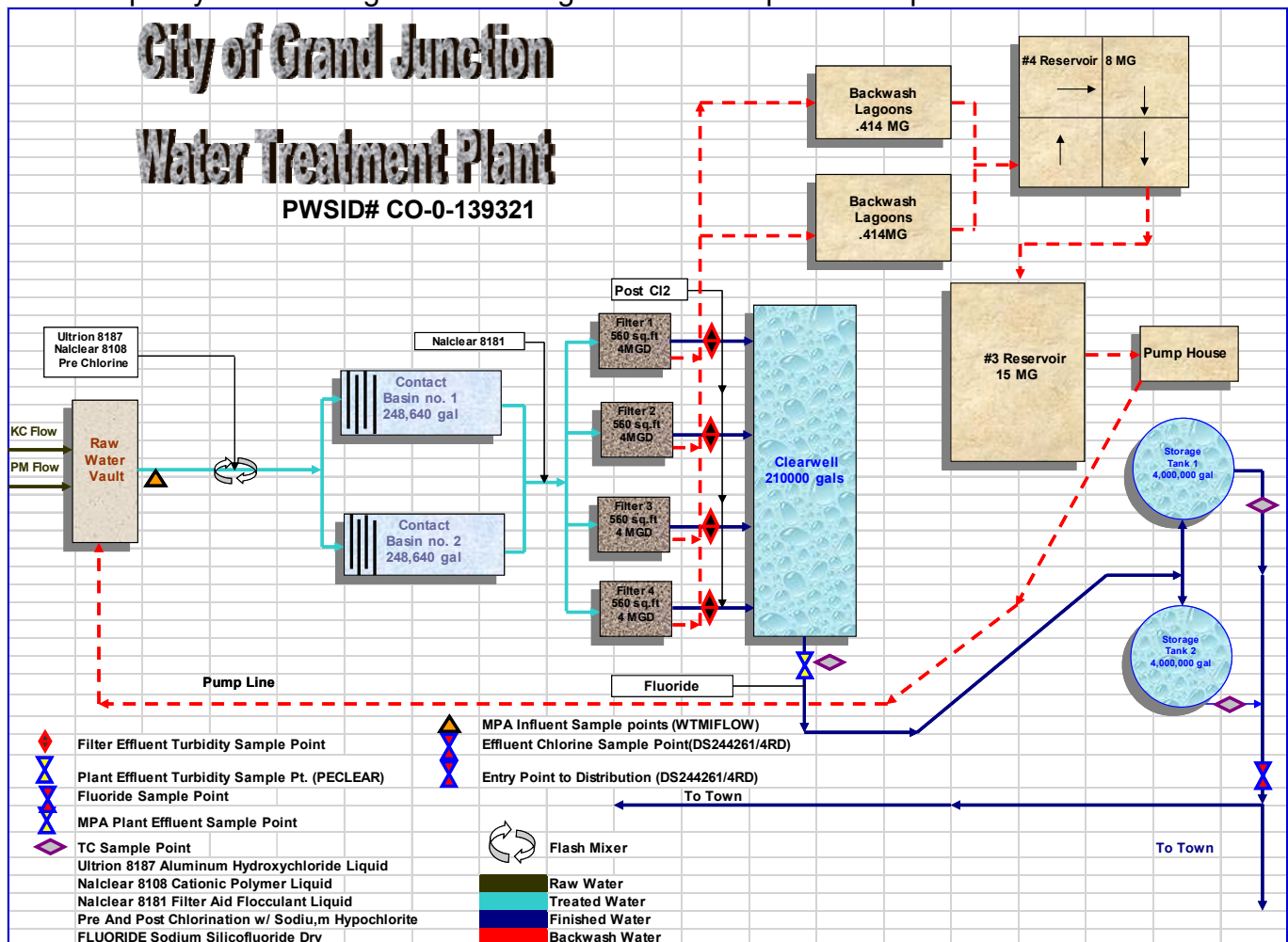
This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Consultant's owned, hired, or non-owned vehicles assigned to be used in performance of the Work. The policy shall contain a severability of interests provision.

- 3.2 Additional Insured Endorsement: The policies required by paragraphs (b) above shall be endorsed to include the Owner and the Owner's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Contractor. The Contractor shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

- 4.1. **General/Background:** The City of Grand Junction's Utilities Department operates the City's Water Treatment Plant (WTP) located on Orchard Mesa. The WTP provides water for approximately 30,000 residents in the City of Grand Junction. The WTP was constructed in 1968 and commissioned in 1969. The WTP is a direct filtration plant currently permitted with the state in good standing with a 16 MGD design treatment capacity. A flow diagram of the original treatment process is presented below:



In 2017, the City retrofitted the existing Wheeler under drain system and back wash components, with newer Leopold underdrains/media retainers, a blower / air scour system for backwash of the filter media, and SCADA controls for all new components.

The primary water supply for the WTP is the City's Kannah Creek watershed on the Grand Mesa. Due to the high quality of this water source, the City can meet drinking water standards with direct filtration. Design criteria for the filter media are as follows:

Design Requirements for Filter Material

Criteria	CDPHE Design Criteria	Grand Junction WTP
Ratio of bed depth to effective size	1000 minimum	1016
Dual media bed depth must be a minimum of 30-inches	30 minimum	12-inches of sand 18-inches of anthracite 30-inches Total
Anthracite must comply with AWWA B100	Yes	Yes
Sand must comply with AWWA B100	Yes	Yes

The City also has a 120 cfs water right (18.6 cfs is absolute and 101.4 cfs is conditional) on the Gunnison River that it maintains for backup raw water supply. The Gunnison River served as the City's water supply prior to obtaining the Kannah Creek water rights. The City maintains the 10 mgd pump station constructed in 1972. While the City periodically exercises the pump station on the Gunnison River, the water treatment plant does not have the capability to treat the higher turbidity Gunnison River water to meet current drinking water standards.

In support of its due diligence submittal scheduled in April 2019, the City intends to evaluate the infrastructure needed to upgrade the water treatment plant and pump station to have the capacity to treat the Gunnison River water source to meet drinking water standards so that it can be fully utilized during peak summer demands, drought conditions, and/or during emergency situations.

4.2. Scope of Services:

4.2.1 Consultants Responsibilities: The scope of work shall include the following components:

Task One: Project Management and Coordination

Project Initiation: Develop and prepare a project schedule to meet the proposed time frame and assign tasks. The schedule shall show individual tasks described in the scope of work for the project and identify key milestone dates. The Consultant Project Manager (Consultant PM) shall maintain and update the project schedule as the work proceeds. Consultants PM will be assigned to this project for the duration of the work.

Work Task Coordination: The Consultant PM shall assign and coordinate all work tasks being accomplished, including those to be performed by subconsultants, to ensure project work is completed on schedule.

Project Team Coordination: The City PM and the Consultant PM shall maintain ongoing communication about the project on a frequent and regular basis. Each PM shall provide the other with

- Written synopsis of their respective contacts (both by telephone or in person) with others
- Copies of pertinent written communications, including electronic (email) correspondence
- Early identification of potential problems or concerns

Progress Meetings: The City and Consultant shall meet, either in person or by telephone conference calls, at regularly scheduled Project Working Group Meetings held at approximate two-week intervals throughout the project. Meetings shall include the Consultant PM, City PM, Utility Engineer, and Water Resources Manager. The Project Working Group Meetings shall be used to coordinate the work effort and resolve any outstanding issues or problems. The meetings shall focus on the following topics:

- Activities completed since the last meeting
- Problems encountered or anticipated
- Late activities/activities slipping behind schedule
- Solutions for unresolved or newly identified problems
- Schedule of upcoming activities
- Information on items required/comments from CDPHE/Water and Power Development Authority

The Consultant PM shall prepare a written summary report of the general discussions held including all action items assigned. This scope assumes three (3) Project Working Group Meetings via conference call.

Reporting Requirements: The Consultant PM shall provide the following on a routine basis:

- Bi weekly status reports and monthly billings.

Task Two: Water Quality Conditions for Gunnison River

The consultant will prepare a summary of water quality conditions for the Gunnison River that will include current and historical data and seasonal variations. At a minimum, data should include relevant water quality data from Sampling Station 09152400 (Gunnison River near Grand Junction) available from USGS (see USGS Table 20 included as Appendix A). The consultant will establish raw water characteristics that will be used as the basis for design for upgrading the water treatment plant.

Task Three: Identify Options to Upgrade Water Treatment Plant

The consultant will identify up to three options to upgrade the water treatment plant to meet current drinking water standards for potable water treatment (PWS ID CO0139321) as well as AWWA Partnership for Safe Water performance goals (0.10 NTU or lower 95% of the time). See Appendix B and C.

Options should address converting the direct filtration process to a conventional treatment process and should consider the need for any new process equipment or the possibility of retrofitting any existing basins for sedimentation. The analysis should also

consider whether the Gunnison River water source would necessitate adding corrosion control inhibitors and any other implications regarding compliance with the Lead and Copper rule. Lastly, the analysis should include the ability to blend raw water sources to meet peak water demands during certain times of the year.

In addition to water treatment upgrades, the analysis should also assess the need to upsize and/or upgrade the current Gunnison River pumping station and pipeline to the water treatment plant.

The consultant should provide advantages/disadvantages of each option and relative costs for each option. Consultant should provide a recommendation for the preferred option based on factors of treatment effectiveness, operational flexibility, and cost.

Task Four: Develop Conceptual Design and Cost Estimate

The consultant will prepare a conceptual design and opinion of probable cost estimate for the recommended option. The consultant will submit a draft basis of design report (BODR) to the City for review. Following review and comment by the City, the consultant will issue a final report.

- 4.3. Cost Proposal:** Offeror shall provide a not to exceed cost to provide all services required to complete the proposed project. Offeror shall also provide their hourly rates for all consultant staff involved with engineering services for this project.

All cost proposals will be considered by the Owner to be negotiable based on the final scope of services and deliverables. The cost proposals will not be opened by the Owner until a prospective awarded firm has been determined. Then, only the cost proposal of the successful preferred proposer will be opened. However, the Owner reserves the right to open competing cost proposals and consider their contents if a contract agreement cannot be negotiated with the number one selected firm or if it is considered in the best interest of the Owner to do so.

4.4. Attachments:

- Appendix A: USGS Table 20
- Appendix B: 2018 Monitoring Schedule
- Appendix C: AWWA Partnership for Safe Water

4.5. RFP Tentative Time Schedule:

- | | |
|--|-----------------------|
| • Request for Proposal available | February 6, 2019 |
| • Inquiry deadline, no questions after this date | February 19, 2019 |
| • Addendum Posted | February 21, 2019 |
| • Submittal deadline for proposals | February 27, 2019 |
| • Owner evaluation of proposals | February 28 – March 6 |
| • Interviews (if required) | March 13, 2019 |
| • Final selection | March 15, 2019 |
| • Contract execution | March 22, 2019 |
| • Work begins no later than | March 31, 2019 |
| • Final Report Complete | August 31, 2019 |

4.6. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidssystem.com/default.asp>). This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals. (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 “Preparation and Submittal of Proposals.” Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A to F**:

*****(NOTE: PLEASE KEEP PROPOSAL RESPONSES TO NO MORE THAN 12 PAGES IN IT’S ENTIRETY)*****

- A. Cover Letter:** Cover letter shall be provided which explains the Firm’s interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm’s principal contact person with Owner’s Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Contractor agrees to all requirements herein.
- B. Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction/Mesa County and include prior experience in similar projects.
- C. Strategy and Implementation Plan:** Describe your (the firm’s) interpretation of the Owner’s objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm’s implementation plan and an estimate of time commitments from Owner staff.
- D. References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience specifically in other water treatment plant filter upgrades and/or modifications projects, of similar scope.
- E. Fee Proposal:** Provide a sealed cost proposal, as per Section 4.3 “Cost Proposal”.

- F. **Additional Data (optional):** Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

- 6.1 Evaluation:** An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.
- 6.2 Intent:** Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (in no particular order of priority):

- Responsiveness of submittal to the RFP
- Understanding of the project and the objectives
- Experience
- Necessary resources
- Strategy & Implementation Plan
- Required skills
- References
- Fees (only of the selected preferred proposer)

Owner also reserves the right to take into consideration past performance of previous awards/contracts with the Owner of any vendor, contractor, supplier, or service provider in determining final award(s).

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

- 6.3 Oral Interviews:** The Owner may invite the most qualified rated proposers to participate in oral interviews.
- 6.4 Award:** Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Contractor.

SECTION 7.0: SOLICITATION RESPONSE FORM
RFP-4604-19-DH Engineering Study for City of Grand Junction
Water Treatment Plant Upgrade Project

Offeror must submit entire Form completed, dated and signed.

The Owner reserves the right to accept any portion of the work to be performed at its discretion

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror's proposal attached hereto; as accepted by the Owner.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice. Payment Terms _____.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

Company Name – (Typed or Printed)

Authorized Agent – (Typed or Printed)

Authorized Agent Signature

Phone Number

Address of Offeror

E-mail Address of Agent

City, State, and Zip Code

Date

Appendix A: USGS Table 20

Table 20. Summary of measured constituents and properties for Gunnison River near Grand Junction, CO, station 09152500
 [--, no data or not applicable; L, low; M, medium; H, high; LRL, Lab Reporting Level; *, value is censored, see Definition of Terms for censored value replacement rules; NC, percentiles and medians not calculated or Level of Concern not computed; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, pH, and water temperature]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Instantaneous discharge, in cubic feet per second	1994-2014	241	0	607	1,880	13,900	06/19/95	1,073	4,184	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2015-2016	24	0	1,050	1,830	9,140	06/24/15	1,315	3,453	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	1994-2014	179	0	6.3	8.9	13.7	12/28/04	7.7	11.5	5.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2015-2016	21	0	7.3	8.9	12.4	12/10/15	7.6	11.3	5.0	0	--	--	--	L
pH, in standard units	1994-2014	185	0	7.8	8.3	8.9	07/21/95	8.1	8.5	6.5-9.0	0	--	--	--	L
pH, in standard units	2015-2016	22	0	8.1	8.4	9.0	08/26/15	8.2	8.7	6.5-9.0	0	--	--	--	L
pH, laboratory, in standard units	1994-2003	103	0	7.5	8.1	8.5	11/07/97	7.9	8.3	6.5-9.0	0	--	--	0.10	L
Specific conductance, laboratory, in microsiemens per centimeter	1994-2014	658	0	304	805	1,416	09/29/05	464	1,033	--	--	.	--	5.0	--
Specific conductance, in microsiemens per centimeter	1994-2014	240	0	287	829	1,400	08/23/01	477	1,050	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2015-2016	27	0	316	808	992	11/13/15	506	930	--	--	.	--	--	--
Temperature, water, degrees Celsius	1994-2014	240	0	0.0	11.6	23.7	07/14/04	3.9	19.7	--	--	--	--	--	--
Temperature, water, degrees Celsius	2015-2016	26	0	3.0	13.7	21.3	08/11/16	5.6	19.2	--	--	--	--	--	--
Temperature, water, degrees Celsius March-November	1994-2014	194	0	1.7	13.5	23.7	07/14/04	7.6	20.0	28.6	0	--	--	--	L
Temperature, water, degrees Celsius March-November	2015-2016	23	0	5.3	14.0	21.3	08/11/16	8.7	19.4	28.6	0	--	--	--	L
Temperature, water, degrees Celsius December-February	1994-2014	46	0	0.0	2.8	7.0	02/20/03	0.4	4.9	14.3	0	--	--	--	L
Temperature, water, degrees Celsius December-February	2015-2016	3	0	3.0	NC	5.6	02/20/15	NC	NC	14.3	0	--	--	--	NC
Turbidity, in nephelometric turbidity ratio-units	2012-2014	20	0	5.8	58.8	891.0	08/14/14	11.3	347.9	--	--	--	--	2.0	--
Turbidity, in nephelometric turbidity ratio-units	2015-2016	19	1	0 *	51.6	564.0	08/23/16	4.2	251.0	--	--	--	--	2.0	--
Residue, in milligrams per liter	1994-1998	54	0	195	426	827	08/17/94	247	711	--	--	.	--	--	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	1994-1998	54	0	195	426	827	08/17/94	247	711	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	1994-2014	182	0	169	559	1,062	08/23/01	302	734	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2015-2016	19	0	201	566	704	11/13/15	326	640	--	--	.	--	--	--
Hardness, in milligrams per liter	1994-2014	182	0	112	333	665	08/23/01	193	456	--	--	.	--	--	--
Hardness, in milligrams per liter	2015-2016	19	0	134	351	423	10/30/14	214	415	--	--	.	--	--	--
Turbidity, unfiltered, in nephelometric turbidity units	2002	2	0	30.7	NC	52.9	09/24/02	NC	NC	--	--	--	--	0.10	--
Calcium, in milligrams per liter	1994-2014	182	0	30.7	83.1	203	08/23/01	51.3	120	--	--	.	--	0.022	--
Calcium, in milligrams per liter	2015-2016	19	0	39.0	90.2	115	09/14/16	56.6	112	--	--	.	--	0.022	--
Magnesium, in milligrams per liter	1994-2014	182	0	8.5	28.3	53.7	12/11/03	15.1	37.0	--	--	.	--	0.011	--
Magnesium, in milligrams per liter	2015-2016	19	0	9.0	28.3	36.5	11/13/15	17.6	33.2	--	--	.	--	0.011	--
Potassium, in milligrams per liter	1994-2014	182	0	1.6	3.1	8.0	08/23/01	2.1	3.8	--	--	.	--	0.030	--
Potassium, in milligrams per liter	2015-2016	19	0	1.7	3.0	3.6	08/23/16	2.4	3.4	--	--	.	--	0.060	--
Sodium, in milligrams per liter	1994-2014	182	0	11.8	45.6	93.9	12/11/03	23.2	63.2	--	--	.	--	0.060	--
Sodium, in milligrams per liter	2015-2016	19	0	11.7	43.4	58.2	11/13/15	26.8	52.6	--	--	.	--	0.10	--
Acid neutralizing capacity, in milligrams per liter	1994-1999	64	0	76.0	128	171	09/11/98	90.0	160	--	--	.	--	--	--
Alkalinity, in milligrams per liter	1999-2012	44	0	84.1	144	199	02/20/03	110	163	--	--	.	--	4.6	--
Alkalinity, inflection-point titration, in milligrams per liter	1994-2014	126	0	65.9	133	214	02/26/04	87.1	165	--	--	.	--	--	--

Table 20. Summary of measured constituents and properties for Gunnison River near Grand Junction, CO, station 09152500

[--, no data or not applicable; L, low; M, medium; H, high; LRL, Lab Reporting Level; *, value is censored, see Definition of Terms for censored value replacement rules; NC, percentiles and medians not calculated or Level of Concern not computed; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, pH, and water temperature]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Alkalinity, inflection-point titration, in milligrams per liter	2015-2016	19	0	88.4	144	168	11/13/15	99.7	165	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	1994-2014	126	0	79.4	151	255	02/26/04	105	191	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	2015-2016	19	0	106	169	199	11/13/15	120	195	--	--	.	--	--	--
Carbonate, in milligrams per liter	1994-2014	93	0	0.30	2.2	14.0	08/17/94	0.91	4.9	--	--	.	--	--	--
Carbonate, in milligrams per liter	2015-2016	19	0	0.60	2.0	4.2	12/10/15	1.0	3.3	--	--	.	--	--	--
Chloride, in milligrams per liter	1994-2014	182	0	1.9	7.0	13.2	02/26/04	3.8	9.5	250	0	.	--	0.020	L
Chloride, in milligrams per liter	2015-2016	19	0	2.2	6.8	8.2	11/13/15	4.1	7.7	250	0	.	--	0.020	L
Fluoride in milligrams per liter	1994-2014	180	1	0 *	0.35	0.65	08/23/01	0.23	0.50	2.0	0	.	--	0.010	L
Fluoride in milligrams per liter	2015-2016	19	0	0.18	0.38	0.48	08/10/15	0.23	0.46	2.0	0	.	--	0.010	L
Silica, in milligrams per liter	1994-2014	182	0	8.0	12.3	16.5	07/29/99	10.7	14.0	--	--	.	--	0.018	--
Silica, in milligrams per liter	2015-2016	19	0	11.3	13.2	15.5	09/14/16	12.1	14.8	--	--	.	--	0.018	--
Sulfate, in milligrams per liter	1994-2014	182	0	60.5	288	622	08/23/01	134	390	480	6	.	--	0.020	M
Sulfate, in milligrams per liter	2015-2016	21	0	70.9	276	369	11/13/15	146	323	480	0	.	--	0.020	M
Ammonia plus organic nitrogen, in milligrams per liter as N	1995-2002	47	18	0 *	0.190	0.500	10/04/96	0 *	0.290	--	--	--	--	0.10	--
Ammonia plus organic nitrogen (total), in milligrams per liter as N	1994-2014	72	7	0 *	0.401	1.55	07/23/13	0.194	0.725	--	--	--	--	0.070	--
Ammonia plus organic nitrogen (total), in milligrams per liter as N	2015-2016	19	1	0 *	0.437	1.31	05/11/16	0.228	0.740	--	--	--	--	0.070	--
Ammonia, in milligrams per liter as N	1994-2014	73	34	0 *	0.012	0.078	08/11/98	0 *	0.040	1.50	0	3.44	0	0.010	L
Ammonia, in milligrams per liter as N	2015-2016	19	10	0 *	0 *	0.038	04/21/16	0 *	0.026	1.32	0	2.94	0	0.010	L
Nitrite plus nitrate in milligrams per liter as N	1994-2014	74	0	0.160	0.705	1.60	07/09/98	0.308	1.36	--	--	10.0	0	0.010	--
Nitrite plus nitrate in milligrams per liter as N	2015-2016	19	0	0.182	0.729	1.02	08/10/15	0.360	0.938	--	--	10.0	0	0.040	--
Nitrite, in milligrams per liter as N	1994-2014	74	27	0 *	0.005	0.057	11/07/97	0 *	0.013	0.05	1	--	--	0.0010	L
Nitrite, in milligrams per liter as N	2015-2016	19	0	0.001	0.004	0.008	04/21/16	0.003	0.006	0.05	0	--	--	0.0010	L
Orthophosphate, in milligrams per liter as P	1994-2014	74	24	0 *	0.010	0.060	05/20/96	0 *	0.020	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter as P	2015-2016	19	2	0 *	0.011	0.024	06/17/16	0.004	0.021	--	--	--	--	0.0040	--
Phosphorus, in milligrams per liter as P	1994-2002	53	34	0 *	0 *	0.050	05/20/96	0 *	0.030	--	--	--	--	0.060	--
Phosphorus (total), in milligrams per liter as P	1994-2014	74	7	0 *	0.092	0.781	08/14/14	0.015	0.320	--	--	--	--	0.0040	--
Phosphorus (total), in milligrams per liter as P	2015-2016	19	0	0.008	0.122	0.684	05/11/16	0.016	0.367	--	--	--	--	0.0040	--
Aluminum, in micrograms per liter	1994-2012	9	3	0 *	20.0	50.0	05/17/95	0 *	40.0	1,438	0	10,071	0	2.2	L
Aluminum (total), in micrograms per liter	2012	1	0	429	NC	429	05/25/12	NC	NC	1,438	0	10,071	0	3.8	NC
Barium, in micrograms per liter	1994-1995	6	0	39.0	42.0	49.0	05/17/95	39.1	48.9	--	--	.	--	--	--
Cadmium, in micrograms per liter	2002-2012	3	2	0 *	NC	0.018	09/24/02	NC	NC	1.1	0	4.9	0	0.016	NC
Cobalt, in micrograms per liter	1994-1995	6	6	0 *	0 *	0 *	11/23/93	0 *	0 *	--	--	.	--	--	--
Copper, in micrograms per liter	2002-2012	3	0	0.82	NC	4.0	09/24/02	NC	NC	25.4	0	42.5	0	0.80	NC
Iron, in micrograms per liter	1994-2012	57	23	0 *	4.4	62.0	06/19/95	0 *	16.0	300	0	.	--	3.2	L
Lead, in micrograms per liter	2002-2012	3	2	0 *	NC	0.031	05/25/12	NC	NC	9.2	0	237	0	0.025	NC
Manganese, in micrograms per liter	1994-2012	57	0	2.5	11.0	56.0	02/24/94	4.6	23.9	2,478	0	4,486	0	0.13	L

Table 20. Summary of measured constituents and properties for Gunnison River near Grand Junction, CO, station 09152500

[--, no data or not applicable; L, low; M, medium; H, high; LRL, Lab Reporting Level; *, value is censored, see Definition of Terms for censored value replacement rules; NC, percentiles and medians not calculated or Level of Concern not computed; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, pH, and water temperature]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Molybdenum, in micrograms per liter	1994-1995	6	5	0 *	0 *	10.0	08/17/94	0 *	9.50	--	--	--	--	--	--
Nickel, in micrograms per liter	1994-1995	6	5	0 *	0 *	1.0	08/17/94	0 *	0.95	146	0	1,317	0	--	L
Silver, in micrograms per liter	1994-2012	9	9	0 *	0 *	0 *	11/23/93	0 *	0 *	0.61	0	16.6	0	0.0050	L
Vanadium, in micrograms per liter	1994-1995	6	6	0 *	0 *	0 *	11/23/93	0 *	0 *	--	--	--	--	--	--
Zinc, in micrograms per liter	2002-2012	3	1	0 *	NC	1.9	09/24/02	NC	NC	368	0	486	0	1.4	NC
Selenium, in micrograms per liter	1994-2014	178	1	0 *	4.8	16.4	02/20/03	2.2	6.9	4.6	94	18.4	0	0.050	H
Selenium, in micrograms per liter	2015-2016	26	0	0.90	3.3	4.2	12/10/15	2.1	4.1	4.6	0	18.4	0	0.050	M
Selenium (total), in micrograms per liter	1996-2014	6	0	2.3	5.5	7.0	09/17/96	2.4	7.0	--	--	.	--	0.10	--
Selenium (total), in micrograms per liter	2015	1	0	4.2	NC	4.2	10/30/14	NC	NC	--	--	.	--	0.10	--
Organic carbon, in milligrams per liter	1995-2002	46	0	2.3	3.4	5.1	05/04/98	2.6	4.2	--	--	.	--	0.33	--
Suspended sediment, in milligrams per liter	1994-2014	658	0	6	150	12,200	08/27/06	59	487	--	--	--	--	1.0	--
Suspended sediment, in milligrams per liter	2015-2016	70	0	2	143	872	08/23/16	33	350	--	--	--	--	1.0	--

Appendix B: 2018 Monitoring Schedule

GRAND JUNCTION CITY OF
Calendar Year 2018 Monitoring Schedule
Mailing Address: 333 W AVE BLDG A GRAND JUNCTION, CO 81501

Public Water System ID	Water System Name	Primary County	Federal System Type	State Source Type	Population
CO0139321	GRAND JUNCTION CITY OF	MESA	Community	Surface Water	26000
Minimum Certification Required for Treatment Operator		Minimum Certification Required for Distribution System Operator		Seasonal	Water Hauler
A		3		No	No

Contact Information

All public water systems are required to maintain an Administrative Contact, Treatment Operator (if applicable), Distribution System Operator (if applicable), and Owner. If the information below is incorrect or blank please send us a contact update form. This form is available by visiting <http://wqcdcompliance.com>. The contact update form is located under 'Facility Operator Certification'. For operator certification information please visit <http://www.ocpweb.com>. You may search for individual operator certification levels/expiration by clicking on the 'Information' menu bar and selecting 'State Certified Operators'.

Administrative Contact	Treatment Operator	Distribution System Operator	Owner
RICK BRINKMAN	MARK RITTERBUSH	RONALD KEY	

General Information

Samples must be collected at the location specified in the Monitoring Plan or Record of Approved Waterworks.

- The Drinking Water Monitoring Schedule is provided for your reference (example schedule available at <https://wqcdcompliance.com/schedules>).
- Schedules are updated every Wednesday evening. Please contact your specialist with questions ([contact information](#)) or call us at 303-692-3556.
- Laboratory sampling results may be submitted using the Online Portal <https://wqcdcompliance.com/login>. Please do not email results or attachments to individuals.
- Please identify the **Facility ID and Sample Point ID** (listed below) when submitting sample results. Facility and Sample Point IDs are used to identify general sample site locations.
- Online records available at environmentalrecords.colorado.gov/HPRMWebDrawer/Record. Enter PWSID as the 'Title Word'.

Monitoring Information

Distribution System Sample Schedules		
Facility ID	Facility Name	Facility Type
DS001	DISTRIBUTION SYSTEM	Distribution System
Microorganisms and Disinfectants		
TOTAL COLIFORM BACTERIA (TCR) Sample Schedule:		Collection Period:
30 sample(s) per Month during the collection period		January 1, 2018 to December 31, 2018
Sample Point ID(s) (Sample Point Name): RTOR (ROUTINE ORIGINAL) RPOT (REPEAT OTHER) RPOR (REPEAT ORIGINAL) RPDN (REPEAT DOWNSTREAM) RPUP (REPEAT UPSTREAM)		
For raw water source samples (i.e. non-distribution) use the Facility ID and Sample Point ID listed at the end of this monitoring schedule		

Distribution System Sample Schedules

Facility ID DS001	Facility Name DISTRIBUTION SYSTEM	Facility Type Distribution System
-----------------------------	---	---

Microorganisms and Disinfectants

FREE CHLORINE Sample Schedule:
Measure **every time** you collect a TOTAL COLIFORM BACTERIA (TCR) sample

Disinfection Byproducts

TTHMs and HAA5s (Stage 2) Sample Schedule:	*Collection Period:*
1 dual sample(s) per sample point for a TOTAL of 4 dual sample(s) per Quarter during the collection period	January 1, 2018 to December 31, 2018
Collection Restriction: Sample(s) must be collected, at a minimum , in the following months: February, May, August (Peak Month), November	Compliance Check: February **Result(s) Received** May **Result(s) Received** August (Peak Month) November
State Sample Point ID(s) (System Location ID(s)): DBP001 (DSVIEWPT) DBP002 (DSMLROSE) DBP003 (DS11MAIN) DBP004 (DSOMCHEY)	

Lead and Copper

LEAD AND COPPER Sample Schedule:	*Collection Period:*
30 sample(s) per Year	June 1, 2018 to September 30, 2018
Collection Restriction: Sample(s) must be collected between June 1 and September 30 Once results are received and processed the 90th percentile will be available by searching online records at http://environmentalrecords.colorado.gov/HPRMWebDrawer/Record . Enter PWSID as the 'Title Word'.	
Sample Point IDs for lead and copper begin with 'LCR' and are available at the end of the monitoring schedule. To manage sites visit https://wqcdcompliance.com/login . If sites not listed please contact us at https://www.colorado.gov/cdphe/dwcontact .	

Non-Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
001	GRAND JUNCTION WTP	Treatment Plant	001	ENTRY POINT	Entry Point

Daily Schedules

FREE CHLORINE (ENTRY POINT RESIDUAL) Sample Schedule:	Collection Period:
Sample Continuously during the collection period	While Operating

TURBIDITY (CFE) Sample Schedule:	Collection Period:
1 sample every 4 Hours during the collection period	While Operating
Note: Sample(s) collected at a location representative of the <u>combined filtered water</u>	

TURBIDITY (IFE) Sample Schedule:	Collection Period:
Sample Continuously during the collection period	While Operating
Note: Sample(s) collected at a location representative of the <u>individual filtered water</u>	

Non-Distribution System Sample Schedules

Facility ID	Facility Name	Facility Type	Sample Point ID	Sample Point Name	Sample Point Type
001	GRAND JUNCTION WTP	Treatment Plant	001	ENTRY POINT	Entry Point
Quarterly Schedules					
<u>VOLATILE ORGANICS GROUP Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per Quarter during the collection period			January 1, 2018 to December 31, 2018		
			Compliance Check: 1st Quarter **Result(s) Received** 2nd Quarter **Result(s) Received** 3rd Quarter 4th Quarter		
Yearly Schedules					
<u>INORGANICS GROUP Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per Year			January 1, 2018 to December 31, 2018		
<u>NITRATE Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per Year			January 1, 2018 to December 31, 2018		
3 Year Schedules					
<u>SYNTHETIC ORGANICS GROUP Sample Schedule:</u>			<u>*Collection Period:*</u>		
2 sample(s) per 3 Years			January 1 to December 31 (2017, 2018, <u>or</u> 2019)		
Collection Restriction: The 2 samples must be collected in the Same Calendar Year , but in Different Quarters					
Satisfied Schedules					
<u>FLUORIDE Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per Year			January 1, 2018 to December 31, 2018 **Sample Result(s) Received**		
<u>COMBINED RADIUM (-226 & -228) Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per 9 Years			January 1, 2011 to December 31, 2019 **Sample Result(s) Received**		
<u>COMBINED URANIUM Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per 9 Years			January 1, 2011 to December 31, 2019 **Sample Result(s) Received**		
<u>GROSS ALPHA, WITHOUT RADON & URANIUM Sample Schedule:</u>			<u>*Collection Period:*</u>		
1 sample(s) per 9 Years			January 1, 2011 to December 31, 2019 **Sample Result(s) Received**		
Collection Restriction: Sample(s) must be collected at the same time as the COMBINED URANIUM sample(s)					
<u>NITRITE Sample Schedule:</u>			<u>Collection Period:</u>		
1 sample(s) per 9 Years			January 1, 2011 to December 31, 2019 **Sample Result(s) Received**		

This monitoring schedule is based on the system's current inventory and is subject to change. *Water systems are responsible for promptly reporting schedule errors or omissions.* Errors or omissions on monitoring schedules do not prohibit the Water Quality Control Division from enforcing monitoring requirements set forth by the Regulations.

Non-Distribution System Sample Schedules

<u>Facility ID</u>	<u>Facility Name</u>	<u>Facility Type</u>	<u>Sample Point ID</u>	<u>Sample Point Name</u>	<u>Sample Point Type</u>
SS001	COMBINED RAW SOURCE	Sampling Station	CRS001	COMBINED RAW SOURCE	Raw Water Source
Monthly Schedules					
CRYPTOSPORIDIUM Sample Schedule:			Collection Period:		
1 sample(s) per Month during the collection period			January 1, 2018 to September 30, 2018		
E. COLI Sample Schedule:			Collection Period:		
1 sample(s) per Month during the collection period			January 1, 2018 to September 30, 2018		
Note: Samples must be analyzed by a certified laboratory using enumeration (MPN or CFU)					
TURBIDITY Sample Schedule:			Collection Period:		
1 sample(s) per Month during the collection period			January 1, 2018 to September 30, 2018		

Compliance and Public Notice Schedules

CCR Compliance Schedule - Schedule Closed

Your 2018 **DRAFT** CCR will be posted at <http://wqcdcompliance.com/> in March

Activity Name	Activity Due Date	Activity Completion Date
SUBMIT CCR REPORT TO STATE	June 30, 2018	May 10, 2018
SUBMIT CERTIFICATE OF DELIVERY	June 30, 2018	May 10, 2018

Lead and Copper Compliance Schedule

Visit colorado.gov/cdphe/lcr for more information

Activity Name	Activity Due Date	Activity Completion Date
SUBMIT LEAD CONSUMER NOTIFICATION CERTIFICATE OF DELIVERY AND SAMPLE NOTIFICATION	December 31, 2018	Activity Not Completed

Facility Specific Levels

<u>Facility ID</u>	<u>Facility Name</u>	<u>Facility Type</u>
DS001	DISTRIBUTION SYSTEM	Distribution System
Analyte Name	Level	Level Type
FREE CHLORINE	0.2 mg/L	Minimum
FREE CHLORINE	4.0 mg/L	Maximum
<u>Facility ID</u>	<u>Facility Name</u>	<u>Facility Type</u>
001	GRAND JUNCTION WTP	Treatment Plant
Analyte Name	Level	Level Type
TURBIDITY	1 NTU	Maximum
TURBIDITY	0.3 NTU	95th Percentile

Facility Specific Levels		
Facility ID	Facility Name	Facility Type
001	GRAND JUNCTION WTP	Treatment Plant
Analyte Name	Level	Level Type
FREE CHLORINE (MICROBIAL INACTIVATION AND ENTRY POINT RESIDUAL)	0.2 mg/L	Minimum

Facility Information				Sample Point Information	
				Visit https://wqcdcompliance.com/login to manage lead and copper sites.	
Facility ID	Active Status	Facility Name	Facility Type	Sample Point ID	Sample Point Name
001	A	GRAND JUNCTION WTP	Treatment Plant	001	ENTRY POINT
002	A	KANNAH CREEK FLOWLINE	Intake	002	RAW
003	A	PURDY MESA FLOWLINE	Intake	003	RAW
005	A	SOMERVILLE FLOWLINE	Intake	005	RAW
006	A	MASTER METER FROM CLIFTON CO0139180	Consecutive Connection	006	PURCHASED
007	A	MASTER METER FROM UTE CO0139791	Consecutive Connection	007	PURCHASED
008	A	NORTH TANK	Storage	008	NOT ENTRY POINT
009	A	SOUTH TANK	Storage	009	NOT ENTRY POINT
010	A	GUNNISON RIVER PUMP STATION	Intake	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT
DS001	A	DISTRIBUTION SYSTEM	Dist System/Zone	DBP001	DSVIEWPT
				DBP002	DSMLROSE
				DBP003	DS11MAIN
				DBP004	DSOMCHEY
				LCR001	1
				LCR002	2
				LCR004	4
				LCR005	5
				LCR008	8
				LCR009	9
				LCR011	11
				LCR014	14

DS001	A	DISTRIBUTION SYSTEM	Dist System/Zone	LCR015	15
				LCR016	16
				LCR017	17
				LCR018	18
				LCR019	19
				LCR021	21
				LCR024	24
				LCR025	25
				LCR027	27
				LCR028	28
				LCR029	29
				LCR030	30
				LCR031	31
				LCR032	32
				LCR033	33
				LCR034	34
				LCR035	35
				LCR036	36
				LCR037	37
				LCR038	38
				LCR039	39
				LCR040	40
				LCR041	41
				LCR042	42
				LCR043	43
				LCR044	44
				LCR045	45
				LCR046	46
				LCR047	47
				LCR064	64
				LCR066	66
				LCR067	67
				LCR068	68

This monitoring schedule is based on the system's current inventory and is subject to change. *Water systems are responsible for promptly reporting schedule errors or omissions.* Errors or omissions on monitoring schedules do not prohibit the Water Quality Control Division from enforcing monitoring requirements set forth by the Regulations.

DS001	A	DISTRIBUTION SYSTEM	Dist System/Zone	LCR069	69
				LCR070	70
				LCR071	71
				LCR072	72
				LCR073	73
				LCR074	74
				LCR075	75
				LCR076	76
				LCR077	77
				LCR078	78
				LCR079	79
				LCR080	80
				LCR081	81
				LCR082	82
				LCR083	83
				LCR084	84
				LCR085	85
		RPDN	REPEAT DOWNSTREAM		
		RPOR	REPEAT ORIGINAL		
		RPOT	REPEAT OTHER		
		RPUP	REPEAT UPSTREAM		
		RTOR	ROUTINE ORIGINAL		
SS001	A	COMBINED RAW SOURCE	Sampling Station	CRS001	COMBINED RAW SOURCE
004	I	NORTH FORK DIVERSION	Intake	NO ACTIVE SAMPLING POINT	NO ACTIVE SAMPLING POINT

Time Period Definitions		
Time Period	Start Date	End Date
First Quarter	January 1, 2018	March 31, 2018
Second Quarter	April 1, 2018	June 30, 2018
Third Quarter	July 1, 2018	September 30, 2018
Fourth Quarter	October 1, 2018	December 31, 2018
First 6 Months	January 1, 2018	June 30, 2018
Second 6 Months	July 1, 2018	December 31, 2018
Year	January 1, 2018	December 31, 2018

Analyte Group Definitions		
Analyte Group Name	Analytes in Group	Number of Analytes in Group
INORGANICS GROUP	ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CHROMIUM MERCURY NICKEL SELENIUM SODIUM THALLIUM	11
SYNTHETIC ORGANICS GROUP	1,2-DIBROMO-3-CHLOROPROPANE 2,4,5-TP 2,4-D ALDICARB ALDICARB SULFONE ALDICARB SULFOXIDE ATRAZINE BENZO(A)PYRENE BHC-GAMMA CARBOFURAN CHLORDANE DALAPON DI(2-ETHYLHEXYL) ADIPATE DI(2-ETHYLHEXYL) PHTHALATE DINOSEB DIQUAT ENDOTHALL ENDRIN ETHYLENE DIBROMIDE HEPTACHLOR HEPTACHLOR EPOXIDE HEXACHLOROBENZENE HEXACHLOROCYCLOPENTADIENE LASSO METHOXYCHLOR OXAMYL PENTACHLOROPHENOL PICLORAM SIMAZINE POLYCHLORINATED BIPHENYLS (PCB) TOXAPHENE	31
VOLATILE ORGANICS GROUP	1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1-DICHLOROETHYLENE 1,2,4-TRICHLOROBENZENE 1,2-DICHLOROETHANE 1,2-DICHLOROPROPANE BENZENE CARBON TETRACHLORIDE CHLOROBENZENE CIS-1,2-DICHLOROETHYLENE DICHLOROMETHANE ETHYLBENZENE O-DICHLOROBENZENE P-DICHLOROBENZENE STYRENE TETRACHLOROETHYLENE TOLUENE TRANS-1,2-DICHLOROETHYLENE TRICHLOROETHYLENE VINYL CHLORIDE XYLENES (TOTAL)	21

Appendix C: AWWA Partnership for Safe Water



Partnership for Safe Water®

Presidents Award Application Guidelines and Annual Reporting Requirements

Meeting Phase IV Individual Filter Performance Goals

Revised December 2014

Phase IV Individual Filter Effluent Turbidity Performance

The Presidents Award recognizes treatment plants that have achieved the highest possible levels of individual filter effluent turbidity performance (Phase IV goals). Utilities that are considering pursuing Presidents Award recognition must understand that they will be assessed against very stringent performance goals. The Presidents Award represents a much higher performance level over Phase III of the Partnership. Participation at the Presidents Award level of the Partnership for Safe Water program is voluntary and is not required for continuing membership in Phase III of the Partnership program. However, a treatment plant must be a Phase III Directors Award plant in good standing to apply for the Presidents Award in Water Treatment.

The Presidents Award provides recognition to those plants that:

Demonstrate that they are achieving high levels of performance by meeting or bettering the Partnership for Safe Water Phase IV Individual Filter Effluent Turbidity Performance Goals for a 12-month period ending no more than two months prior to the application date. The Phase IV Individual Filter Effluent Turbidity Performance Goals are listed in Table 1 (shown in red).

Table 1 - Partnership for Safe Water Phase IV Individual Filter Effluent Turbidity Performance Goals	
➤	Individual filter effluent turbidity of less than 0.10 NTU 95 percent of the time based on values recorded at 15-minute time intervals (or more frequently)
➤	Maximum filtered water turbidity <u>goal</u> equal to or less than 0.30 NTU for all sample locations
➤	The treatment plant has an individual filter effluent turbidity goal following a backwash of no more than 15 minutes of water production at a turbidity equal to or greater than 0.10 NTU

All treatment plants seeking Presidents Award recognition for individual filter effluent turbidity performance are well positioned to reach the highest level of Partnership recognition, awarded to treatment plants for demonstrating fully optimized treatment – the “*Excellence in Water Treatment Award*.” The Excellence in Water Treatment Award application guidelines, available on the Partnership for Safe Water website, detail the additional requirements associated with achieving the program’s highest level of performance and recognition. The Phase IV individual filter effluent turbidity performance goals are among these requirements.

The Partnership for Safe Water offers two achievement levels beyond the Directors Award. These include: (1) Presidents Award and, (2) Excellence in Water Treatment Award. The Excellence in Water Treatment Award requirements include the steps needed to achieve the Presidents Award. The Presidents Award is intended to be a significant step for plants seeking the Excellence in Water Treatment Award. However achievement of the Presidents Award is not required prior to applying for Excellence in Water Treatment Award recognition. Plants pursuing recognition for either award must register their intent to apply for the award with AWWA's Partnership staff. The registration process signifies the plant's intentions to implement improvements identified during or after the self-assessment process using a collaborative team approach to attain fully optimized plant performance.

For the Presidents Award, the performance goals in Table 1 are based on all turbidity values from individual filters at 15-minute intervals (or more frequent) when the filters are in production. This is a significant change from Phase III where 4-hour data from combined filter effluent was used to evaluate plant performance. This means that utilities meeting the Partnership's performance goals in Phase III may not achieve the Presidents Award level of performance. In working with the program's optimization goals, the Partnership for Safe Water would like those utilities participating in this phase to understand the following position statement regarding the use of numerical performance goals by the Partnership program.

POSITION STATEMENT ON NUMERICAL GOALS

(approved April 19, 2010)

The numerical goals used in the Partnership provide a basis from which optimization is discussed by the optimization review team. It is possible to be on either side of a particular numerical goal and be considered either optimized or not optimized, depending on the particular situation. Operational limits are used as guidelines only, and are interpreted by optimization review team members to assess performance status.

The numerical goals used in the Partnership in no way imply "best practices" or represent a standard of operational practice. Rather, these goals were selected for use in the Partnership program without requiring health-based risk analysis or cost/benefit evaluation. They serve instead as high-level goals towards which operators can strive in a process of continuous improvement. Establishment of performance goals is a key to successful performance improvement.

Any interpretation or use of the Partnership process and its imbedded numerical goals outside the Partnership process, and particularly in the regulatory process, is inappropriate, and in no way carries the endorsement, either explicit or implied, of the Partnership.

POSITION ON USE OF REFERENCE MATERIALS

(approved April 19, 2010)

Use by the Partnership of reference materials (e.g. *Self-Assessment Guide for Surface Water Treatment Plant Optimization* or Water Research Foundation "*Criteria for Optimized Distribution Systems*") is necessary to provide the resources and tools to support its processes. The Partnership neither explicitly nor implicitly endorses the contents of these materials beyond the use to support the Partnership processes.

Overall Approach

Applicants must register (www.awwa.org/partnership) their intent to pursue Presidents Award recognition. This is free and is intended to provide an opportunity for the Partnership for Safe Water Program Manager to contact the plant representative to verify the requirements for the Presidents and Excellence in Water Treatment Awards. This is intended to provide support, to answer questions, and give some assurance that the utility is ready to proceed through the Presidents Award application process.

After completion and submittal of this application (Appendix A checklist items) the package undergoes a technical examination by Partnership for Safe Water Program Manager. The Program Manager assesses the data to verify that it meets the individual filter effluent turbidity goals included in Table 1 and contains the additional report elements required for the Presidents Award.

If the Presidents Award application meets all the requirements, the Program Manager refers the application to PEAC-T Chair with a recommendation for award. Applications that do not satisfy the requirements for the Presidents Award are returned to the utility. Returned applications may be re-submitted when all of the requirements have been met.

The PEAC-T Chair reviews the application and considers the Program Manager recommendation for award. The PEAC-T Chair may conduct the review or enlist other PEAC-T members in the review. Applications that are determined not to meet the Presidents Award requirements are returned to the utility. Satisfactory applications are recommended to the Partnership's Steering Committee (SC) to receive the Presidents Award.

The SC considers the recommendation and a vote is conducted to confer the award. The purpose of the SC review is to ensure consistency between reviews and to ensure that each Partnership organization (AWWA, AMWA, NAWC, ASDWA, USEPA, and WRF) agrees with the decision to confer the award. Once the SC has considered all of these issues and approved the recommendation, the utility is informed by the SC Chair that they will receive the Presidents Award for Water Treatment.

General Requirements

- Participation in the Partnership for Safe Water program at the Presidents Award level is voluntary and is not required for continuing membership in Phase III of the Partnership program.
- Prior to applying for Presidents Award recognition, the plant must have completed Phase III (received the Directors Award) and be a current Partnership subscriber in good standing, including payment of the current year's subscription fees.
- Plant must complete the Presidents Award application process that includes all documents and data listed in the Presidents Award minimum reporting requirements checklist (Appendix A).
- The plant submits 12 months of individual filter effluent turbidity performance data as outlined in application package described below.
- The Partnership program provides no guarantee that the plant will receive Presidents Award recognition after completing the application process.
- Presidents Award-winning plants must submit annual reports (as described in Appendix B) to maintain Presidents Award status and be eligible to receive longevity awards.

Presidents Award Application Package Requirements

Objective of the Application Package

The documents, narrative discussion, and data submitted to comprise the Presidents Award application provide evidence that the treatment plant has met the award requirements.

Organize the Phase IV Presidents Award application package using the Document Check List (Appendix A). Electronic submission of the application is required.

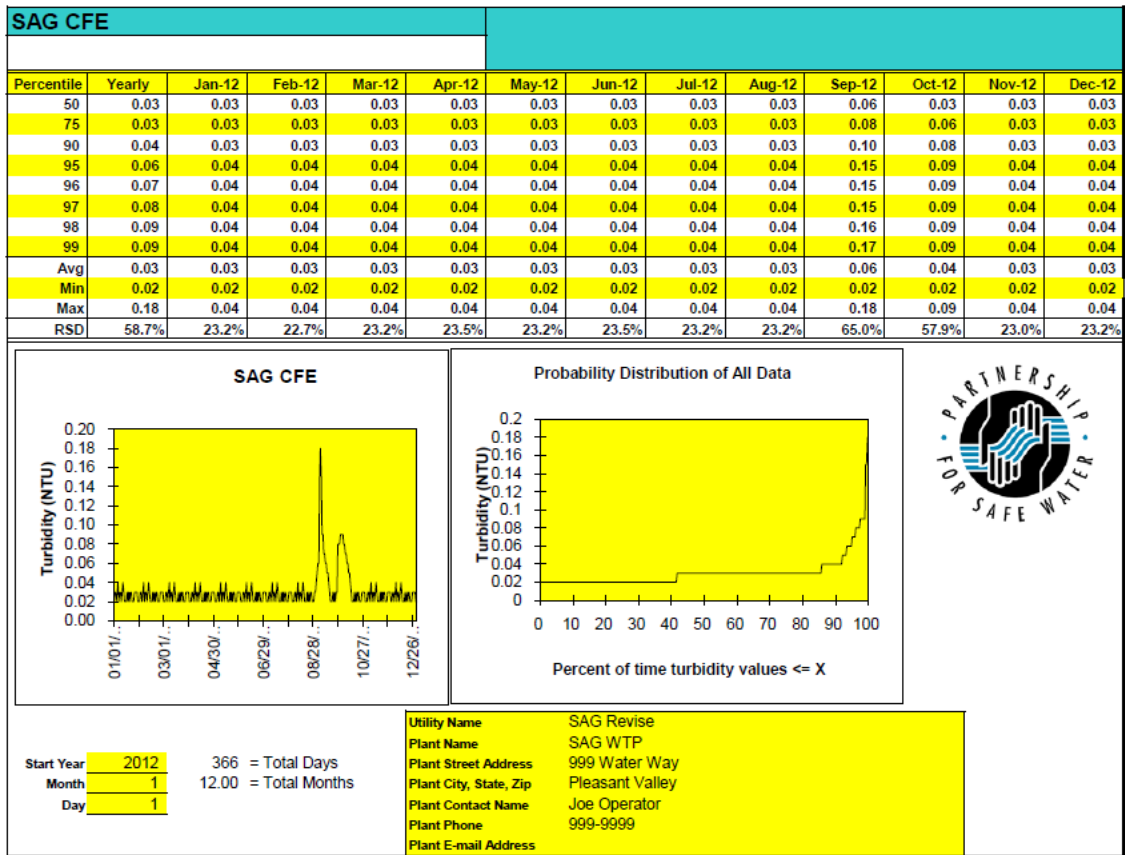
Plant Performance Contents of Application Package

Plant Turbidity Performance Data – Raw and Combined Filter Effluent

The major consideration for determining if a plant is eligible for Presidents Award recognition is if it is meeting the individual filter effluent turbidity performance goals displayed in Table 1.

Data for the plant's raw and combined filter effluent turbidity for the most recent 12-month period must be submitted using the Partnership for Safe Water data collection spreadsheet software. The entire page (shown in Figure 1) that includes the table of monthly plant statistics must be provided (not just the saved file that is sent to AWWA for the annual report). The 95th percentile values for each month must satisfy the performance goals displayed in Table 1. Any monthly values that do not meet the goals must be accompanied by a narrative explanation that describes the circumstances and justifies why the plant should be considered eligible to receive Presidents Award recognition in spite of these results.

Figure 1 - Example Data Collection Software Output used for Raw and CFE Data Submission



Individual Filter Effluent Turbidity Performance and Goals

To receive Presidents Award recognition, the plant must adopt the goals in Table 1 that will minimize turbidity spikes immediately after a filter is placed into production, especially following backwash. The following performance goals from Table 1 are used to assess filter performance when the filter is brought back on line after backwash or when filter-to-waste is terminated:

- Maximum value goal anytime during any filter run of less than or equal to 0.30 NTU for all sample locations.
- The treatment plant has an individual filter effluent turbidity goal following a backwash of no more than 15 minutes of water production at a turbidity equal to or greater than 0.10 NTU.

Monthly Individual Filter Effluent Turbidity Statistics

Plants must report the performance of each individual filter for each month during the 12-month reporting period. Performance is based on turbidity values taken from each filter at 15-minute intervals, with the 95th percentile values calculated for each month. The plant will use its own computer programs to generate the report. **The Presidents Award requirement is that**

each individual filter's monthly 95th percentile turbidity value shall be less than 0.10 NTU, based on data collected at 15-minute intervals (or more frequent).

The other turbidity performance statistics (96th-99th percentiles) are recommended to be calculated, but are **not** required to be submitted in the application package. These additional measures are used by utilities to quantify performance consistency and confirm a high level of plant control. These are examined as part of the Excellence in Water Treatment Award requirements.

The turbidity values used for this performance calculation must be at 15-minute intervals (or more frequent) for each filter for each month, when the filter is in production. The values must be discrete and not averages or other types of adjusted turbidity values. If a filter is in production for any portion of the month, it should be included in the 95th percentile calculations. If a filter is not in service for a particular month(s), this should be indicated in the application package.

Figure 2 - Individual Filter Performance Statistics Example

Monthly Individual Filter Percentile Statistics

Filter ID	95th Percentile Turbidity (NTU)
Filter 1	0.059
Filter 2	0.053
Filter 3	0.054
Filter 4	0.038
Filter 5	0.043
Filter 6	0.056
Filter 7	0.058
Filter 8	0.032

Presidents Award treatment plants typically operate individual filters to produce turbidity less than 0.10 NTU at all times. The Partnership understands that it is not always practical, however, to strictly demand this performance. The performance **requirement** is therefore established as individual filter effluent turbidity of less than 0.10 NTU for 95% of the measurements taken at 15-minute intervals when the filter is in production.

Data Collection and Quality Control

Conclusions about the performance of the plant and its component processes must be based on accurate and verifiable data. The plant must have documentation that describes how sample locations were chosen and include any data that demonstrates that the sample accurately represents the water quality being produced by the filters.

The plant must have documentation or similar information regarding the type of instruments that are being used to produce the data provided in the Presidents Award application. The documentation should also describe the frequency of calibration (and verification) and offer standard operating procedures regarding the removal of data due to instrument malfunction.

The transfer of data from the instrumentation to the SCADA system should be described, along with any procedures used to process data to create the monthly individual filter 95th percentile data tables submitted with the Presidents Award application. Please note that data submitted shall not be averages but must be discrete data points.

The completed Instrumentation and Data Summary Form, included in Appendix C, may be submitted to fulfill the Data Collection and Quality Control information requirement to apply for the Presidents Award. The information may also be submitted using a brief narrative statement drafted by the utility.

Presidents Award Annual Reporting Requirements

After receiving the Presidents Award, the utility will submit performance data annually to renew their award status and become eligible to receive the Partnership's longevity awards. Submit individual filter turbidity performance data summaries for the most recent 12-month annual reporting period (typically June 1 – May 31) as described in the Application guidelines, along with 12 months of raw water, settled water (optional), and combined filter effluent turbidity data.

A written narrative report should examine plant performance trends and verify that performance (meeting the Phase IV individual filter effluent turbidity performance goals) has been maintained. Explain any finished water turbidity values that exceed these goals and what steps have been taken to prevent these occurrences in the future. In the narrative report, describe optimization activities that have taken place during the reporting period and describe optimization activities that are planned for the following year. State that the plant has not received a notice of violation since the last annual report. If the plant received a notice of violation, send a copy and explain the circumstances.

A complete Presidents Award annual data submission will also satisfy the requirements for the plant's Directors Award annual submission. There is no need to submit a separate annual report to maintain the plant's Directors Award status.

At a minimum, the annual report must include:

1. A signed copy of the Appendix B checklist with declarations indicated. This checklist includes a statement that the utility has not received a notice of violation for any applicable regulation (or a copy of any violation and an explanation of the circumstances).
2. Plant raw water, settled water (optional), and combined filter effluent turbidity results for the most recent 12-month reporting period (typically June 1 – May 31) using the Partnership data collection software.
3. Individual filter effluent turbidity monthly 95th percentile statistics tables, as indicated in the Presidents Award application guidelines, for the most recent 12-month annual reporting period (typically June 1 – May 31).
4. A narrative (comprised of three parts and limited to one or two pages) that describes (1) the optimization progress that was made on improvement projects identified in the self-

assessment or previous annual report; (2) optimization improvement projects that will be implemented in the following year; (3) and a performance evaluation of the individual filter effluent (IFE) results and the plant performance overall during the reporting period. This narrative should conclude with a short explanation of why this plant should continue to maintain its status as one of the best run plants in the field and receive a one-year renewal of Presidents Award status.

All Presidents award application and annual report materials must be transmitted in electronic format, unless otherwise arrange with the Partnership for Safe Water Program Manager.

For Further Information on Applying for the Presidents Award, contact:

Partnership Coordinator
Partnership for Safe Water
American Water Works Assoc.
6666 W. Quincy Ave.
Denver, CO 80235
Phone: (303) 347-6169
FAX: (303) 794-6303
e-mail: partnership@awwa.org

Appendix A
Partnership for Safe Water

Presidents Award
Application Checklist

Minimum Requirements

The requirements listed below are the minimum for Presidents Award recognition. The burden is on the plant to provide adequate information for the review. Incomplete or unsatisfactory applications will be returned. **Include a completed and signed copy (electronically) of this checklist with your application. All application materials must be transmitted electronically.**

- Cover letter that includes contact information and plant identification. All applicants must be Directors Award plants in good standing with the *Partnership for Safe Water*. The cover letter should also include the population served by the plant, a description of the geographic area served by the plant, and a brief description of the plant's treatment process train.
- Raw water and combined filter effluent turbidity results for the 12-month period ending no more than two months prior to the application date (must use current Partnership for Safe Water data collection software, EXCEL format). Provide data summary page including statistics table and trend graphs (Figure 1).
- Individual filter effluent turbidity summaries - monthly and annual 95 percentile values (based on 15 minute values) for each filter for the most recent 12-month period ending no more than two months prior to the application date. Format shown in Figure 2 above is acceptable.
- Data Collection and Quality Control information - Submission of the form included in Appendix C is recommended. This information may, as an alternative, be submitted in a narrative format.

Declarations

- The treatment plant has not received a notice of violation for any applicable regulations during the data reporting period. (If the plant received a notice of violation a copy is included along with a description of the circumstances).
- The treatment plant intends to continue to make performance improvements using a collaborative team approach to ultimately attain fully optimized plant performance (as indicated by the *Excellence in Water Treatment Award*).
- The treatment plant has a maximum individual filter turbidity goal value anytime during any filter run of less than or equal to 0.30 NTU for all sample locations.
- The treatment plant has an individual filter effluent turbidity goal following a backwash of no more than 15 minutes of water production at a turbidity equal to or greater than 0.10 NTU.

I confirm and attest to the above:

Authorized signature/Print Name

Send this information electronically to:
Partnership Coordinator, Partnership for Safe Water,
American Water Works Association, 6666 W. Quincy Ave., Denver, CO 80235
Phone: (303) 347-6169, e-mail: partnership@awwa.org

Appendix B Partnership for Safe Water

Presidents Award Annual Reporting Requirements Checklist

For Annual Reporting, be sure to collect data that is needed to apply for the Presidents Award. This includes raw, combined filter effluent, and individual filter effluent turbidity performance data as described in the application guidelines. The Partnership's reporting year typically runs from June 1 through May 31 of the following year. **Include a completed and signed copy (electronically) of this checklist with your application. All application materials must be transmitted electronically. A completed Presidents Award annual submission also fulfills the plant's Directors Award reporting requirements.**

- Cover letter (electronic format) including contact information, and plant identification. Award-winning plants must be in good standing with the *Partnership for Safe Water*.
- Raw water, settled water (recommended for Directors Award annual reporting), and combined filter effluent turbidity results for the most recent 12-month reporting period, typically June 1 – May 31 (must use current *Partnership for Safe Water* data collection software, EXCEL format).
- Individual filter effluent turbidity monthly and annual 95th percentile values for each filter for the most recent 12-month reporting period (typically June 1 – May 31).
- Narrative report that describes the optimization activities conducted over the year (make sure to comment on items planned for in the previous annual report), a schedule or plan for the following year, and a review of the plant performance compared to the previous year.

Declarations

- The treatment plant has not received a notice of violation for any applicable regulations during the data reporting period. (If the plant received a notice of violation a copy is included along with a description of the circumstances).
- The treatment plant intends to continue to make performance improvements using a collaborative team approach to ultimately attain fully optimized plant performance (as indicated by the *Excellence in Water Treatment Award*).
- The treatment plant has a maximum individual filter turbidity goal value anytime during any filter run of less than or equal to 0.30 NTU for all sample locations.
- The treatment plant has an individual filter effluent turbidity goal following a backwash of no more than 15 minutes of water production at a turbidity equal to or greater than 0.10 NTU.

I confirm and attest to the above:

Authorized signature/Print name

Send this information electronically to:
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American Water Works Association, 6666 W. Quincy Ave., Denver, CO 80235
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Appendix C

Partnership Presidents Award individual filter effluent turbidity evaluation checklist

Turbidimeters on-line for each filter? YES ____ NO ____

Number of turbidimeters in use on filters _____

Turbidimeter Make (example: Hach, GLI, etc): _____

Turbidimeter Model (example: 1720D, etc) _____

Note: List all types of turbidimeters in use on filters

Tapping location relative to filter effluent valve: BEFORE ____ or AFTER ____
or OTHER (describe) _____

Tapping location relative to sampling of filter to waste stream: DOES ____ or DOESN'T ____
SAMPLE Filter-To-Waste

Tap sampling location on pipe:

Vertical	_____
Diagonal-up	_____
Diagonal-down	_____
Horizontal	_____
Bottom	_____

Turbidimeters close to sample tap: YES ____ or NO ____
If NO, explain: _____

Turbidimeter Calibration with: Formazine ____ or USEPA approved pre-mixed ____

Turbidimeter Calibration Frequency at least quarterly: YES ____ or NO ____
If NO, explain _____

Turbidimeter verification according to manufacturer's recommended method: Yes ____ or NO ____

Turbidimeter verification frequency at least monthly: YES ____ or NO ____
If NO, explain _____

IFE turbidity value reported based upon:

Bubble reject mode: enabled ____ or disabled ____
Signal average (seconds): 6 ____ or 30 ____ or 60 ____ or OTHER _____
Print frequency (minutes): _____

Data transmitted via:

Signal Output module (SOM) YES ____ or NO ____
SCADA: YES ____ or NO ____ (describe: _____)
Other Software: YES ____ or NO ____ (describe: _____)
Stripchart: YES ____ or NO ____

Data transfer to Spreadsheet via:

Manual entry: YES ____ or NO ____

Direct link with SCADA: YES ____ or NO ____

Direct link with signal output module: YES ____ or NO ____

Direct link with other software: YES ____ or NO ____

Other: _____

If SCADA used, describe SCADA polling interval: IN SECONDS ____ or IN MINUTES ____

If frequency in minutes, then how many? _____

Describe the data manipulation, if any, performed manually, or by the signal output module, SCADA, or other software prior to placing a value into final percentile spreadsheet: (examples: delta saving, double delta saving, etc)

Describe how often "print frequency" data is collected for use in the spreadsheet:

(example: data is "printed" by turbidimeter every 1 minute, continuously scanned by SCADA within seconds polling interval, and placed into a SCADA file using real time values every scan, this file is then used by a program to grab data from this file every 15 minutes, this data selection is initiated at 00:01 hours and continues every 15 minutes thereafter. This "15 minute data" are transferred via a direct link software to excel, where it is written to floppy disk and then copied to final spreadsheet for percentile determination.): _____

Did the final submitted percentile calculations include the following 15 minute data values?

First data value after a wash: YES ____ or NO ____

Data values during a wash: YES ____ or NO ____

Data values during documented maintenance activities: YES ____ or NO ____

Does your utility do the following:

Assign one person to track IFE turbidity values on a monthly basis? YES ____ or NO ____

Document time interval post backwash peak is above 0.10 NTU? YES ____ or NO ____

Document all maintenance (calibrations, verifications, flushing) related turbidity spikes?

YES ____ or NO ____

Other information: _____

Thank-you for taking the time to complete this form, accurate answers will allow the Partnership Committee reviewing your report to understand the relationship of your submitted data to optimization.