

RESOLUTION NO. 4411

RESOLUTION ACCEPTING THE DETERMINATION THAT THE ENVIRONMENTAL ASSESSMENTS IN THE MILES CITY WATER SYSTEM PRELIMINARY ENGINEERING REPORT AND THE MILES CITY WATER AND WASTEWATER IMPROVEMENTS PRELIMINARY ENGINEERING REPORT ARE APPROPRIATE FOR THE INTAKE STRUCTURE, MAIN STREET WATER, NORTH MONTANA AVENUE SEWER, INDUSTRIAL PARK WATER AND SEWER, AND FAIRGROUNDS LIFT STATION AND FORCE MAIN PROJECTS

WHEREAS, the City of Miles City has completed assessments to identify potential environmental impacts to the City;

WHEREAS, the draft Environmental Assessments were made available for public comment and the findings were presented and reviewed at a public meeting;

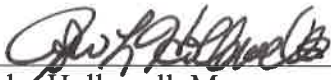
WHEREAS, no substantive public comment was received;

WHEREAS, The City of Miles City has determined that the above projects will not significantly affect the quality of the human environment and accordingly the City of Miles City has determined an EIS is not necessary;

NOW, THEREFORE, BE IT RESOLVED by the Council as follows;

1. That the City of Miles City adopts the final Environmental Assessments, attached hereto as Exhibit "A" and Exhibit "B," for the referenced projects.

SAID RESOLUTION FINALLY PASSED AND ADOPTED BY A DULY CONSTITUTED QUORUM OF THE CITY COUNCIL OF THE CITY OF MILES CITY, MONTANA, AT A DULY CALLED MEETING THIS 25TH DAY OF MAY, 2021.


John Hollowell, Mayor

ATTEST:


Mary Rowe, City Clerk

Environmental Review Form

On a separate piece of paper, please answer the following as they apply to your proposed project:

1. **Alternatives:** Describe reasonable alternatives to the project.
2. **Mitigation:** Identify any enforceable measures necessary to reduce any impacts to an insignificant level.
3. **Is an EA or Environmental Impact Statement (EIS) required?** Describe whether or not an EA or EIS is required and explain in detail why or why not.
4. **Public Involvement:** Describe the process followed to involve the public in the proposed project and its potential environmental impacts. Identify the public meetings -- where and when -
- the project was considered and discussed, and when the applicant approved the final environmental assessment.
5. **Person(s) Responsible for Preparing:** Identify the person(s) responsible for preparation of this checklist.
6. **Other Agencies:** List any state, local, or federal agencies that have over-lapping or additional jurisdiction or environmental review responsibility for the proposed action and the permits, licenses, and other authorizations required; and list any agencies or groups that were contacted or contributed information to this Environmental Assessment (EA).

(1) Patrick Murtagh, Interstate Engineering, Sr. Engineer

Date

City of Miles City

(2) Mayor



Date:

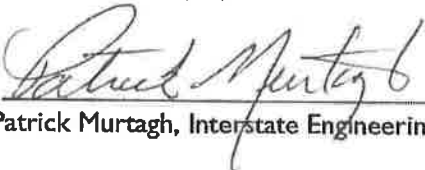
6-15-21

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(1) Patrick Murtagh, Interstate Engineering, Sr. Engineer

6/28/2021
Date

City of Miles City

(2) Mayor



Date:

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ENVIRONMENTAL REVIEW CHECKLIST

NOTE: The environmental review checklist is also available in the *Uniform Application for Montana Public Facility Projects, Twelfth Edition*. The applicant can use either form, but must include a completed checklist with TSEP application materials and all other environmental documents identified in Appendix C of this document.

| | |
|-------------------------|--|
| NAME OF PROJECT: | Miles City Water System Improvements |
| PROPOSED ACTION: | Construct and New Intake and replace approximate 6,500 feet of water main. |
| LOCATION: | Miles City, Montana |

Key Letter:

N: No Impact; **B:** Potentially Beneficial; **A:** Potentially Adverse; **P:** Approval/Permits Required; **M:** Mitigation Required

PHYSICAL ENVIRONMENT

| | | |
|-----|---|--|
| Key | 1 | Soil Suitability, Topographic and/or Geologic Constraints (e.g., soil slump, steep slopes, subsidence, seismic activity) |
| N | | <p><i>Response and source of information:</i></p> <p>Soils have been researched for the project where pipe or concrete will be added or replaced for corrosiveness (See Appendix A). The area at and around the existing intake and proposed new intake is moderately corrosive to concrete. For pipelines and dewatering at the Intake site, the main concern with soils is that much of the City sits atop an alluvial fan, and dewatering will be a cost (included in costs per foot of pipe). Plastic pipe will be placed where cast iron pipe is removed, as will be the norm for all water and sewer. Slopes are nearly flat. <i>Sources: NRCS websites (USDA information)</i></p> |
| Key | 2 | Hazardous Facilities (e.g., power lines, hazardous waste sites, acceptable distance from explosive and flammable hazards including chemical/petrochemical storage tanks, underground fuel storage tanks, and related facilities such as natural gas storage facilities & propane storage tanks) |
| N | | <p><i>Response and source of information:</i></p> <p>Due to the age of long standing businesses in the area of pipeline improvements, the project will need to include provisions for dealing with the high potential to find undocumented LUST sites. A list of sites is included in Appendix A. <i>Sources: Montana DEQ Website: http://deq.mt.gov/Land/lust/lustsites as of Jan 2020</i></p> |
| Key | 3 | Effects of Project on Surrounding Air Quality or Any Kind of Effects of Existing Air Quality on Project (e.g., dust, odors, emissions) |
| N | | <p><i>Response and source of information:</i></p> |

| | | |
|-----|---|---|
| | | No significant impact to air quality is anticipated at the construction sites. Dust control is to be discussed and pursued through the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i> |
| Key | 4 | Groundwater Resources & Aquifers (e.g., quantity, quality, distribution, depth to groundwater, sole source aquifers) |
| | | <i>Response and source of information:</i> |
| B | | Groundwater Resources are benefited. The continued leakage from the cast iron pipe will be eliminated as that pipe is replaced with PVC pipe (one recent leak repair saved the City over 100,000 gallons of water production per day). <i>Source: PER, interview with Utilities Director.</i> |
| Key | 5 | Surface Water/Water Quality, Quantity & Distribution (e.g., streams, lakes, storm runoff, irrigation systems, canals) |
| | | <i>Response and source of information:</i> |
| N/P | | Surface water quality is not impacted by the project in the long term, other than a savings of water by arresting leakage in the old cast iron pipe. A General Permit for Stormwater Discharges Associated with Construction Activity is required for construction activities. This is provided to protect surface waters from excessive, or sediment-filled, run-off. <i>Source: Montana DEQ > Water > StormWater > StormSystems</i> |
| Key | 6 | Floodplains & Floodplain Management (Identify any floodplains within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |
| B/P | | Placing the new intake on-shore structure back further from the River provides for better control and accessibility of the intake. However, approval for work in the floodplain is required. <i>Source: FIRM Maps (see Appendix)</i> |
| Key | 7 | Wetlands Protection (Identify any wetlands within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |
| N/P | | Wetlands are not located at any of the sites. However, the project will include work in the River and along its banks. A number for permits will be required as outlined in the PER and the Environmental Review Form. Appendix A of the PER includes a full summary of all |

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| | | permits required and notes where joint permits may be used. <i>Source: NRCS website (see Appendix for Land Usage and Wetlands map).</i> |
| Key | 8 | Agricultural Lands, Production, & Farmland Protection (e.g., grazing, forestry, cropland, prime or unique agricultural lands) (Identify any prime or important farm ground or forest lands within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |
| N | | There are no prime or irrigated farmlands impacted by the project. The pipeline improvements are in urban, previously developed areas, and the Intake area does not change usage. <i>Source: NRCS website (see appendix for Land Usage and Wetlands map).</i> |
| Key | 9 | Vegetation & Wildlife Species & Habitats, including Fish and Sage Grouse (e.g., terrestrial, avian and aquatic life and habitats) |
| | | <i>Response and source of information:</i> |
| N/P | | <p>A detailed printout of area species of concern was obtained from the Montana Natural Heritage website for the Miles City area. Most of the species listed were of riparian or water habitat and away from the project. The project is completely out of the sage grouse habitats or protected areas and since all work will be in previously disturbed areas and rights of ways, no significant impact is anticipated for wildlife, though scheduling of work along the River Bank is important for the long-eared bat, as noted by USFWP in its response letter: “<i>The northern long-eared bat may occur in forested riparian areas along the Yellowstone River. No proposed or designated critical habitat occurs in the Project area.</i>” <i>Source: NRCS, USFWP letter of Jan 29, 2020. See the Appendix A of the PER for maps.</i></p> <p>However, there is a great deal of concern surrounding Pallid Sturgeon. Two concerns are noted: 1) timing of work in-River (Avoid May 15 – July 15) and 2) the desire to have screens with 1/8th inch slots. These concerns are to be addressed in the design and contract documents. <i>Source: NRCS, USFWP letter of Jan 29, 2020.</i></p> |
| Key | 10 | Unique, Endangered, Fragile, or Limited Environmental Resources, Including Endangered Species |
| | | (e.g., plants, fish, sage grouse or wildlife) |
| | | <i>Response and source of information:</i> |
| N /P | | <p>No endangered species were found in the area based on a search of the <i>Montana Natural Heritage website and mapbuilder for the pipeline areas. See also the PER appendix for a list of Species of Concern (SOC) in the Miles City area.</i></p> <p>Concerns over the Pallid Sturgeon are discussed throughout the PER and noted in item 9 previously. Following the recommendations in the PER, Pallid Sturgeon will be better protected by the proposed use of Johnson Screens with 1/8th inch slots. <i>Source: PER and Letter from USFWP of Jan 29, 2020.</i></p> |

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| Key | 11 | Unique Natural Features (e.g., geologic features) |
| N | | <p><i>Response and source of information:</i></p> <p>Pipeline replacements for the project will be entirely within previously disturbed areas and City or State Rights-of-way, no unique features would be expected to be influenced by the pipeline portions of the project. <i>Montana Natural Heritage. See also the PER appendix.</i></p> <p>The Intake options selected does not constructed anything new that would be visible along the River shore (final design will determine whether or not to demolish the existing intake, based on historical value compared to safety). <i>Source: PER and SHiPO correspondence.</i></p> |
| Key | 12 | Access to, and Quality of, Recreational & Wilderness Activities, Public Lands and Waterways, and Public Open Space |
| N | | <p><i>Response and source of information:</i></p> <p>Access to recreation, public lands, etc. will not be impacted by the project. <i>Source: comparison of project maps.</i></p> |
| HUMAN ENVIRONMENT | | |
| Key | 1 | Visual Quality – Coherence, Diversity, Compatibility of Use and Scale, Aesthetics |
| B | | <p><i>Response and source of information:</i></p> <p>Visual quality of the area would not be impacted by any portion of the project since all pipe replacement and in-River improvements will be out of view. The new intake on-shore structure would be set back from the existing. Visual quality could arguably be enhanced by the demolition of the existing intake along the bank, though that decision would be made during final design with direct input from SHiPO. <i>Source: Photographs in the PER, SHiPO correspondence.</i></p> |
| Key | 2 | Nuisances (e.g., glare, fumes) |
| N | | <p><i>Response and source of information:</i></p> <p>No nuisances are anticipated other than potential for dust production. Dust control would be required by the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i></p> |
| Key | 3 | Noise -- suitable separation between noise sensitive activities (such as residential areas) and major noise sources (aircraft, highways & railroads) |
| | | <i>Response and source of information:</i> |

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| N | | Noise is part of any construction project. To protect the public from noise, specific hours of construction will be included in the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i> |
| Key | 4 | Historic Properties, Cultural, and Archaeological Resources |
| N | | <p><i>Response and source of information:</i></p> <p>Work in Main Street would be in the vicinity of historic properties, but all work would be completed within the City or State Right-of-Way. No historic properties are anticipated to be impacted by the project, other than the existing intake (lower portion is 110-years old), which may be left in place or demolished. The State Historic and Preservation Society was contacted and a formal cultural resource survey was not warranted. <i>Source: Correspondence with the State Historical and Preservation Office.</i></p> |
| Key | 5 | Changes in Demographic (population) Characteristics (e.g., quantity, distribution, density) |
| N | | <p><i>Response and source of information:</i></p> <p>The project will allow for normal changes in demographic characteristics. The PER details the boom-bust cycles and recommends improvements necessary to deal with realistic growth if another boom were to occur. However, it also considers the current downturn cycle when calculating long-term distribution of costs per user. The improvement will not change the characteristics, but will allow the City to deal with changes as they occur. <i>Source: PER</i></p> |
| Key | 6 | General Housing Conditions - Quality, Quantity, Affordability |
| N | | <p><i>Response and source of information:</i></p> <p>No changes in housing are required. <i>Source: PER.</i></p> |
| Key | 7 | Displacement or Relocation of Businesses or Residents |
| N | | <p><i>Response and source of information:</i></p> <p>No displacement of businesses or residents is required or anticipated. The improvements will allow for expansion and sustainability of business in the business district. <i>Source: PER and 2017 Capacity Study.</i></p> |
| Key | 8 | Public Health and Safety |
| | | <i>Response and source of information:</i> |

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| B | | Public health and safety are significantly enhanced by the project by preventing build-up of bacteria within the tuberculated regions of the old cast iron pipe, enhancing a woefully inadequate fire protection availability, and eliminating leakage of water. In addition, a potential catastrophic disaster is avoided by providing a new intake, while maintaining a potential backup. <i>Source: PER Findings, conversations with the Fire Chief.</i> |
| Key | 9 | Lead Based Paint and/or Asbestos |
| | | <i>Response and source of information:</i> |
| N | | No asbestos is anticipated to be found. Although the lower portions of the intake were constructed during a period of time where lead-based paint was used, neither the interior nor exterior of the older portion includes painting. The 1974 block structure atop the intake could potentially include lead paint and will require testing. Though the area is small, collection of old paint would be required. Demolition costs included in the PER note that the line item includes testing and handling of potential lead paint. <i>Source: PER, conversations with the DEQ, site visits.</i> |
| Key | 10 | Local Employment & Income Patterns - Quantity and Distribution of Employment, Economic Impact |
| | | <i>Response and source of information:</i> |
| B | | Local employment can be protected by ensuring a sound, safe, long-term water system. Furthermore, fire protection is currently woefully inadequate for the downtown business district. <i>Source: PER and 2016 Capacity Study.</i> |
| Key | 11 | Local & State Tax Base & Revenues |
| | | <i>Response and source of information:</i> |
| B | | See response to item 10, which is all applicable to this item 11. This project is essential for protecting tax base in the business district. <i>Source: PER and 2016 Capacity Study.</i> |
| Key | 12 | Educational Facilities - Schools, Colleges, Universities |
| | | <i>Response and source of information:</i> |
| B | | The project will provide better protection for the schools, best ensuring that there is plenty of water capacity, even in the next “boom” cycle. <i>Source: PER and 2016 Capacity Study.</i> |
| Key | 13 | Commercial and Industrial Facilities - Production & Activity, Growth or Decline. |

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| B | <i>Response and source of information:</i> | |
| | Currently the region is declining in oil production, but the City has been remarkably resilient. It is a stable city and can provide services needed for companies and individuals working with the maintenance of oil facilities installed during the boom. With the improvements, the City will also be ready for the next boom, should one occur. <i>Source: PER, Census Figures and Estimates and 2016 Capacity Study.</i> | |
| Key | 14 | Health Care – Medical Services |
| N | <i>Response and source of information:</i> | |
| | Health care is not directly impacted by the project. The project does provide for a safer environment and a sound water treatment and distribution system is important in the prevention of water-borne disease outbreaks. <i>Source: PER, 2016 Capacity Study</i> | |
| Key | 15 | Social Services – Governmental Services (e.g., demand on) |
| N | <i>Response and source of information:</i> | |
| | No new governmental services are developed or are anticipated as needed beyond assistance with grant and loan administration. <i>Source: Engineer's personal experience.</i> | |
| Key | 16 | Social Structures & Mores (Standards of Social Conduct/Social Conventions) |
| N | <i>Response and source of information:</i> | |
| | No significant change in social structures & mores are anticipated as a result of the project. Costs of the project are distributed using base rates subjected to service line sized (equivalent dwelling units), and actual water use is metered throughout the system. <i>Source: PER</i> | |
| Key | 17 | Land Use Compatibility (e.g., growth, land use change, development activity, adjacent land uses and potential conflicts) |
| N | <i>Response and source of information:</i> | |
| | Land use will not significantly change. <i>Source: PER, City</i> | |
| Key | 18 | Energy Resources - Consumption and Conservation |
| B | <i>Response and source of information:</i> | |
| | The project will allow for reduced water leakage, and accordingly less water is required to be pumped and treated. Proposed VFDs at the new intake will provide greater efficiency, though there will be new energy costs (under \$1,000 per year) for operating a compressor for cleaning the proposed intake screens. <i>Source: PER, lift station design and pump curves</i> | |

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| Key | 19 | Solid Waste Management |
| | | <i>Response and source of information:</i> |
| N | | No significant change is expected in solid waste management. Most equipment for pipeline and water storage facilities does not come with packaging. The construction sites will be required to be kept clean with solid waste disposed of at a landfill (an on-site resident project observer will assist with informing any superintendent of any solid waste related issue), but in any event this will not be expected to influence the management of solid waste. <i>Source: PER.</i> |
| Key | 20 | Wastewater Treatment - Sewage System |
| | | <i>Response and source of information:</i> |
| N | | No change in wastewater treatment will be required by the project, and no increase in wastewater production is anticipated to occur as a result of this project. <i>Source: PER</i> |
| Key | 21 | Storm Water – Surface Drainage |
| | | <i>Response and source of information:</i> |
| N | | No long-term change in stormwater production or patterns is anticipated to result from the project. During construction the contractor will be required to maintain erosion control practices according to the general stormwater discharge permit associated with the project. <i>Source: PER.</i> |
| Key | 22 | Community Water Supply |
| | | <i>Response and source of information:</i> |
| B | | The project will significantly enhance the existing community water supply by providing a very long-term solution to the failing intake and preventing many future water lines breaks (currently at 10 – 15 leaks/breaks per year). The PER was based on a 20-year life cycle cost, but the pipelines and Intake are anticipated to actually last 80 – 100 years. <i>Source: PER economic analysis.</i> |
| Key | 23 | Public Safety – Police |
| | | <i>Response and source of information:</i> |
| N | | The project is not anticipated to have any impact on police. |
| Key | 24 | Fire Protection – Hazards |
| | | <i>Response and source of information:</i> |

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| B | | The project will greatly enhance fire protection by raising the available water from current levels of about 500 – 600 gpm at some downtown business district hydrants to several thousand gpm at all hydrants. <i>Source: PER, conversations with the fire chief, 2016 Capacity Study.</i> |
| Key | 25 | Emergency Medical Services |
| N | | <p><i>Response and source of information:</i></p> <p>Emergency medical services are not impacted by the project, though traffic control along Main Street and N Montana Avenue will have to account for the passage of emergency medical vehicles.. <i>Source: PER Maps</i></p> |
| Key | 26 | Parks, Playgrounds, & Open Space |
| N | | <p><i>Response and source of information:</i></p> <p>Parks and playgrounds are not directly impacted by the project. <i>Source: PER Maps.</i></p> |
| Key | 27 | Cultural Facilities, Cultural Uniqueness & Diversity |
| N | | <p><i>Response and source of information:</i></p> <p>Work on the water system is blind to race, creed or color, and all customers are treated equally. The water system unfortunately does not enhance or discourage cultural diversity or uniqueness. <i>Source: PER</i></p> |
| Key | 28 | Transportation Networks and Traffic Flow Conflicts (e.g., rail; auto including local traffic; airport runway clear zones - avoidance of incompatible land use in airport runway clear zones) |
| | | <i>Response and source of information:</i> |
| B | | Transportation is enhanced by the elimination of leaks that often are repaired during the winter. Winter leaks can lead to ice on roads and a hazardous condition for drivers and pedestrians. While the project does not directly improve traffic patterns, it does lessen the chance of ice on the roads in town and the frequency of closures. <i>Source: PER</i> |
| Key | 29 | Consistency with Local Ordinances, Resolutions, or Plans (e.g., conformance with local comprehensive plans, zoning, or capital improvement plans) |
| N | | <i>Response and source of information:</i> |

| | | |
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| | | <p>The proposed project is completely consistent with the priorities of the City. <i>Source: PER, Meetings with City personnel.</i></p> |
| Key | 30 | <p>Is There a Regulatory Action on Private Property Rights as a Result of this Project? (consider options that reduce, minimize, or eliminate the regulation of private property rights.)</p> |
| N | | <p><i>Response and source of information:</i></p> |
| | | <p>There are no regulatory actions involved with any private property as a result of this project or leading up to the project. <i>Source: PER, conversations with City personnel.</i></p> |

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(1) Patrick Murtagh, Interstate Engineering, Sr. Engineer

Date

City of Miles City

(2) Mayor



Date:

10-15-21

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6/28/2021
Date

City of Miles City

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| | |
|-------------------------|---|
| NAME OF PROJECT: | Miles City Water and Sewer System Improvements |
| PROPOSED ACTION: | Construct approximate 30,000 feet of water and sewer main, including a 6-inch force main drilled under the Tongue River and boring under a private rail line. |
| LOCATION: | Miles City, Montana |

Key Letter:

N: No Impact; **B:** Potentially Beneficial; **A:** Potentially Adverse; **P:** Approval/Permits Required; **M:** Mitigation Required

PHYSICAL ENVIRONMENT

| | | |
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| Key | 1 | Soil Suitability, Topographic and/or Geologic Constraints (e.g., soil slump, steep slopes, subsidence, seismic activity) |
| | | <i>Response and source of information:</i> |
| N | | Soils have been researched for the project where pipe will be added or replaced. The main concern with soils is that much of the City sits atop an alluvial fan, and dewatering will be a cost (include in costs per foot of pipe). Plastic pipe will be placed where cast iron pipe is removed, as will be the norm for all water and sewer. Slopes are only nearly flat. <i>Sources: NRCS websites (USDA information)</i> |
| Key | 2 | Hazardous Facilities (e.g., power lines, hazardous waste sites, acceptable distance from explosive and flammable hazards including chemical/petrochemical storage tanks, underground fuel storage tanks, and related facilities such as natural gas storage facilities & propane storage tanks) |
| | | <i>Response and source of information:</i> |
| N | | Due to the age of long standing businesses in the area, the project will need to include provisions for dealing with the high potential to find undocumented LUST sites. A list of sites is included in Appendix A. <i>Sources: Montana DEQ Website: http://deq.mt.gov/Land/lust/lustsites as of Jan 2020</i> |
| Key | 3 | Effects of Project on Surrounding Air Quality or Any Kind of Effects of Existing Air Quality on Project (e.g., dust, odors, emissions) |
| N | | <i>Response and source of information:</i> |

| | | |
|-----|---|---|
| | | No significant impact to air quality is anticipated at the construction sites. Dust control is to be discussed and pursued through the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i> |
| Key | 4 | Groundwater Resources & Aquifers (e.g., quantity, quality, distribution, depth to groundwater, sole source aquifers) |
| | | <i>Response and source of information:</i> |
| B | | Groundwater Resources are benefited by arresting leakage from the sewer lines scheduled for replacement. Similarly, the continued leakage from the cast iron pipe will be eliminated as that pipe is replaced with PVC pipe. Reduction of leakage lessens the water demand from the Yellowstone River (one recent leak repair saved the City over 100,000 gallons of water production per day). <i>Source: PER</i> |
| Key | 5 | Surface Water/Water Quality, Quantity & Distribution (e.g., streams, lakes, storm runoff, irrigation systems, canals) |
| | | <i>Response and source of information:</i> |
| N | | <p>Surface water quality is not impacted by the project in the long term, other than a savings of water by arresting leakage in the old cast iron pipe. A General Permit for Stormwater Discharges Associated with Construction Activity is required for construction activities. This is provided to protect surface waters from excessive, or sediment-filled, run-off.</p> <p>Additional study is needed to examine the best means of eliminating storm water from entering the sewer system via roof drain lines along the Main Street Alley. That would be addressed in a second phase.</p> <p><i>Source: Montana DEQ > Water > StormWater > StormSystems</i></p> |
| Key | 6 | Floodplains & Floodplain Management (Identify any floodplains within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |
| B | | Much of the work at the industrial park and along Main Street would be in a floodplain. The project is beneficial to floodplain management by eliminating septic fields currently within the floodplain. <i>Source: FIRM Maps (see Appendix)</i> |
| Key | 7 | Wetlands Protection (Identify any wetlands within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |

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| N | | Wetlands are not located at any of the sites, including the areas where the drilling operation will be set up. <i>Source: NRCS website (see Appendix for Land Usage and Wetlands map).</i> |
| Key | 8 | Agricultural Lands, Production, & Farmland Protection (e.g., grazing, forestry, cropland, prime or unique agricultural lands) (Identify any prime or important farm ground or forest lands within one mile of the boundary of the project.) |
| | | <i>Response and source of information:</i> |
| N | | There are no prime or irrigated farmlands impacted by the project. The pipeline improvements are in urban, previously developed areas. <i>Source: NRCS website (see appendix for Land Usage and Wetlands map).</i> |
| Key | 9 | Vegetation & Wildlife Species & Habitats, including Fish and Sage Grouse (e.g., terrestrial, avian and aquatic life and habitats) |
| | | <i>Response and source of information:</i> |
| N | | A detailed printout of area species of concern was obtained from the Montana Natural Heritage website for the Miles City area. Most of the species listed were of riparian or water habitat and away from the project. The project is completely out of the sage grouse habitats or protected areas and since all work will be in previously disturbed areas and rights of ways, no significant impact is anticipated. <i>Source: NRCS, See the Appendix A of the PER for maps.</i> |
| Key | 10 | Unique, Endangered, Fragile, or Limited Environmental Resources, Including Endangered Species (e.g., plants, fish, sage grouse or wildlife) |
| | | <i>Response and source of information:</i> |
| N | | No endangered species were found in the area based on a search of the <i>Montana Natural Heritage website and mapbuilder</i> . See also the PER appendix for a list of Species of Concern (SOC) in the Miles City area. |
| Key | 11 | Unique Natural Features (e.g., geologic features) |
| | | <i>Response and source of information:</i> |
| N | | Considering that the project will be entirely within previously disturbed areas and City or State Rights-of-way, no unique features would be expected to be influenced by the project. <i>Montana Natural Heritage. See also the PER appendix.</i> |
| Key | 12 | |

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| N | | Access to, and Quality of, Recreational & Wilderness Activities, Public Lands and Waterways, and Public Open Space |
| | | <i>Response and source of information:</i> |
| | | Access to recreation, public lands, etc. will not be impacted by the project. <i>Source: comparison of project maps with Park locations</i> |
| HUMAN ENVIRONMENT | | |
| Key | I | Visual Quality – Coherence, Diversity, Compatibility of Use and Scale, Aesthetics |
| B | | <i>Response and source of information:</i> |
| | | Visual quality of the area would not be impacted by any portion of the project since all improvements will be with objects buried. <i>Source: Photographs in the PER.</i> |
| Key | 2 | Nuisances (e.g., glare, fumes) |
| N | | <i>Response and source of information:</i> |
| | | No nuisances are anticipated other than potential for dust production. Dust control would be required by the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i> |
| Key | 3 | Noise -- suitable separation between noise sensitive activities (such as residential areas) and major noise sources (aircraft, highways & railroads) |
| | | <i>Response and source of information:</i> |
| N | | Noise is part of any construction project. To protect the public from noise, specific hours of construction will be included in the contract documents. <i>Source: Based on Previous contract documents prepared by the engineer and Montana Public Works Standard Specifications (MPWSS).</i> |
| Key | 4 | Historic Properties, Cultural, and Archaeological Resources |
| N | | <i>Response and source of information:</i> |
| | | Work in Main Street would be in the vicinity of historic properties, but completed within the City or State Right-of-Way. No historic properties are anticipated to be impacted by the project (the State Historic and Preservation Society was contacted), and a formal cultural resource survey |

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| | | was not warranted. <i>Source: Correspondence with the State Historical and Preservation Office.</i> |
| Key | 5 | Changes in Demographic (population) Characteristics (e.g., quantity, distribution, density) |
| | | <i>Response and source of information:</i> |
| N | | The project will allow for normal changes in demographic characteristics. The PER details the boom-bust cycles and recommends improvements necessary to deal with realistic growth if another boom were to occur. However, it also considers the current downturn cycle when calculating long-term distribution of costs. The improvement will not change the characteristics, but will allow the City to deal with changes as they occur. <i>Source: PER</i> |
| Key | 6 | General Housing Conditions - Quality, Quantity, Affordability |
| | | <i>Response and source of information:</i> |
| N | | No changes in housing are required. <i>Source: PER.</i> |
| Key | 7 | Displacement or Relocation of Businesses or Residents |
| | | <i>Response and source of information:</i> |
| N | | No displacement of businesses or residents is required or anticipated. The improvements will allow for expansion and sustainability of business in the industrial park and in the business district. <i>Source: PER and 2017 Capacity Study.</i> |
| Key | 8 | Public Health and Safety |
| | | <i>Response and source of information:</i> |
| B | | Public health and safety are enhanced by the project by preventing build-up of bacteria within the tuberculated regions of the old cast iron pipe, enhancing a woefully inadequate fire protection availability, and eliminating leakage of sewage into the groundwater and eliminating back-ups of sewage to residences along Montana Avenue. <i>Source: PER Findings, conversations with the Fire Chief.</i> |
| Key | 9 | Lead Based Paint and/or Asbestos |
| | | <i>Response and source of information:</i> |

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| N | | No Lead based paint is anticipated to be dealt with on the project. No asbestos is anticipated to be found with the exception of the final portion of the waterline replacement in N Montana Avenue, which includes some 6-inch asbestos cement pipe. That pipe is common, but disposal needs to include placement of the AC pip in plastic prior to removal to a landfill. If the pipe is outside of the replacement pipe trench it may be left in place undisturbed. AC pipe is only a threat when it is broken. <i>Source: PER, conversations with the DEQ.</i> |
| Key | 10 | Local Employment & Income Patterns - Quantity and Distribution of Employment, Economic Impact |
| B | | <p><i>Response and source of information:</i></p> <p>Local employment can be protected by ensuring a sound, safe, long-term water system, and especially by providing a sewer system since no businesses can be established at the industrial park since septic systems can't be approved in a floodplain. Furthermore, fire protection is woefully inadequate for the downtown business district. With the sewer lines downstream of the business district literally overflowing at times, the City cannot allow additional businesses along Main Street until that line is upsized.</p> <p>A very big concern is the imminent failure of the force main that carries all sewage from the fairgrounds an all businesses across the Tongue River. Failure of that line by scouring would be a complete disaster, especially if it occurred during the Bucking Horse Sale, which unfortunately coincides with the highest river flows and worst time for scouring. <i>Source: PER, River crest data (Appendix G) and 2017 Capacity Study.</i></p> |
| Key | 11 | Local & State Tax Base & Revenues |
| B | | <p><i>Response and source of information:</i></p> <p>See response to item 10, which is all applicable to this item 11.</p> <p>This project is essential for sustaining an expanding tax base. <i>Source: PER and 2017 Capacity Study.</i></p> |
| Key | 12 | Educational Facilities - Schools, Colleges, Universities |
| B | | <p><i>Response and source of information:</i></p> <p>The project will provide better protection for the schools, best ensuring that there is plenty of water and sewer capacity, even in the next "boom" cycle. <i>Source: PER and 2017 Capacity Study.</i></p> |
| Key | 13 | Commercial and Industrial Facilities - Production & Activity, Growth or Decline. |
| | | <i>Response and source of information:</i> |

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| B | | Currently the region is declining in oil production, but the City has been remarkably resilient. It is a stable City and can provide services needed for companies and individuals working with the maintenance of oil facilities installed during the boom. With the improvements, the City will also be ready for the next boom, should one occur. <i>Source: PER, Census Figures and Estimates and 2017 Capacity Study.</i> |
| Key | 14 | Health Care – Medical Services |
| | | <i>Response and source of information:</i> |
| N | | Health care is not directly impacted by the project. The project does provide for a safer environment and a sound water distribution system is important in the prevention of water-borne disease outbreaks. <i>Source: PER</i> |
| Key | 15 | Social Services – Governmental Services (e.g., demand on) |
| | | <i>Response and source of information:</i> |
| N | | No new governmental services are developed or are anticipated as needed beyond assistance with grant and loan administration. <i>Source: Engineer's personal experience.</i> |
| Key | 16 | Social Structures & Mores (Standards of Social Conduct/Social Conventions) |
| | | <i>Response and source of information:</i> |
| N | | No significant change in social structures & mores are anticipated as a result of the project. Costs of the project are distributed using base rates subjected to service line sized (equivalent dwelling units), and actual water use is metered throughout the system. <i>Source: PER</i> |
| Key | 17 | Land Use Compatibility (e.g., growth, land use change, development activity, adjacent land uses and potential conflicts) |
| | | <i>Response and source of information:</i> |
| N | | Land use will not significantly change, though opportunity for new businesses to enter the industrial park will be a direct result. <i>Source: PER, City</i> |
| Key | 18 | Energy Resources - Consumption and Conservation |
| | | <i>Response and source of information:</i> |
| B | | The project will allow for reduced water leakage, and accordingly less water is required to be pumped and treated. There is a net decrease in energy consumption for the system by increasing the size of the force main (tripling lift station capacity while nearly doubling the efficiency of the existing pumps). <i>Source: PER, lift station design and pump curves</i> |

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| Key | 19 | Solid Waste Management |
| | | <i>Response and source of information:</i> |
| N | | No significant increase is expected in solid waste produced. Most equipment for pipeline and water storage facilities does not come with packaging. The construction sites will be required to be kept clean with solid waste disposed of at a landfill (an on-site resident project observer will assist with informing any superintendent of any solid waste related issue). <i>Source: Engineer's personal experience with water construction projects.</i> |
| Key | 20 | Wastewater Treatment - Sewage System |
| | | <i>Response and source of information:</i> |
| N | | No change in wastewater treatment will be required by the project, and no increase in wastewater production is anticipated to occur as a result of this project. <i>Source: PER</i> |
| Key | 21 | Storm Water – Surface Drainage |
| | | <i>Response and source of information:</i> |
| N | | No long-term change in stormwater production or patterns is anticipated to result from the project. During construction the contractor will be required to maintain erosion control practices according to the general stormwater discharge permit associated with the project. <i>Source: Engineer's personal experience with water system construction projects.</i> |
| Key | 22 | Community Water Supply |
| | | <i>Response and source of information:</i> |
| B | | The project will significantly enhance the existing community water supply by providing a very long-term solution to the failing water lines (10 – 15 leaks/breaks per year). The PER was based on a 20-year life cycle cost, but the pipelines are anticipated to actually last 60 – 100 years, and the PVC pipe likely even longer with little to no maintenance. <i>Source: PER economic analysis.</i> |
| Key | 23 | Public Safety – Police |
| | | <i>Response and source of information:</i> |
| N | | The project is not anticipated to have any impact on police. |
| Key | 24 | Fire Protection – Hazards |
| | | <i>Response and source of information:</i> |

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| B | | The project will greatly enhance fire protection by raising the available water from about 500 – 600 gpm at some downtown business district hydrants to several thousand gpm at all hydrants. <i>Source: PER, conversations with the fire chief, 2017 Capacity Study.</i> |
| Key | 25 | Emergency Medical Services |
| N | | <p><i>Response and source of information:</i></p> <p>Emergency medical services are not impacted by the project, though traffic control along Main Street will have to account for the passage of emergency medical vehicles.. <i>Source: PER Maps</i></p> |
| Key | 26 | Parks, Playgrounds, & Open Space |
| N | | <p><i>Response and source of information:</i></p> <p>Parks and playgrounds are not directly impacted by the project. <i>Source: PER Maps.</i></p> |
| Key | 27 | Cultural Facilities, Cultural Uniqueness & Diversity |
| N | | <p><i>Response and source of information:</i></p> <p>Work on the water system is blind to race, creed or color, and all customers are treated equally. The water system unfortunately does not enhance cultural diversity or uniqueness. <i>Source: PER</i></p> |
| Key | 28 | Transportation Networks and Traffic Flow Conflicts (e.g., rail; auto including local traffic; airport runway clear zones - avoidance of incompatible land use in airport runway clear zones) |
| | | <i>Response and source of information:</i> |
| B | | Transportation is enhanced by the elimination of leaks that often are repaired during the winter. This can lead to ice on roads and a hazardous condition for drivers and pedestrians. While the project does not directly improve traffic patterns, it does lessen the chance of ice on the roads in town. <i>Source: PER</i> |
| Key | 29 | Consistency with Local Ordinances, Resolutions, or Plans (e.g., conformance with local comprehensive plans, zoning, or capital improvement plans) |
| N | | <i>Response and source of information:</i> |

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| | | <p>The proposed project is completely consistent with the priorities of the City. <i>Source: PER, Meetings with City personnel.</i></p> |
| Key | 30 | <p>Is There a Regulatory Action on Private Property Rights as a Result of this Project? (consider options that reduce, minimize, or eliminate the regulation of private property rights.)</p> |
| | | <p><i>Response and source of information:</i></p> |
| N | | <p>There are no regulatory actions involved with any private property as a result of this project or leading up to the project. <i>Source: PER, conversations with City personnel.</i></p> |