WIFIA PEA Questionnaire and supporting document checklist

VERSION: August 2023

The Programmatic Environmental Assessment (PEA) Environmental Questionnaire helps verify the applicability of the PEA for a Water Infrastructure Finance and Innovation Act (WIFIA)-funded project. Compliance with other federal and state environmental laws and regulations is required, as appropriate and applicable. These could include, for example, those requiring site-specific consultations with other federal, state, Tribal governments and agencies (such as consultation under the Endangered Species Act (ESA) or National Historic Preservation Act (NHPA)); completing National Environmental Policy Act (NEPA)-like requirements of the state; or complying with certain state requirements for water and wastewater systems.

Completing the PEA questionnaire can be an iterative process. The document may be revised after its initial submittal following project changes or clarifying questions made by EPA.

The borrower should submit a completed PEA questionnaire (attached as Appendix A) including all relevant information and supporting documents listed in this checklist.

| **Appendix A Question** | **Checklist Item or Instructions** | **Included** | |
| --- | --- | --- | --- |
| General Guidance | * All questions have been answered fully based on all available information. * All resource impacts have been evaluated and check boxes are filled in for each row. * All supporting documentation is referenced and attached. * Borrowers may use the excel formatted PEA Questionnaire when documenting multiple projects. * Additional pages are attached as necessary. |  | |
| Question 4:  Project Description | * Describe each project component or subproject outlined in the WIFIA Application Section E.   + Note if components are new, replacements, or rehabilitations.   + Provide length of right(s)-of-way, or specific volumes/capacities.   + Indicate if the project or components are still in the early phases of design and if specific details are not yet available. * Note project phases (if applicable). * Provide location descriptions for each project component or subproject outlined in the WIFIA Application Section E.   + Provide Street address or nearest intersection.   + Describe the previous or current site use.   + Describe the existing landcover/vegetation.   + Provide Site coordinates in Decimal Degrees. * Provide project overview map, showing all project components in one map. * Provide maps of each project component, including:   + Additional maps for clarity.   + Maps labeled appropriately, with relevant streets and roadways.   + Map surroundings should be visible.   + Provide ArcGIS Project Shapefiles of project components, as appropriate. |  |
| Sections A through M:  Impact Assessment | Assess anticipated impacts for each environmental resource. For each resource check the appropriate box if there are no impacts, less than significant impacts, or potentially significant impact as described in each resource section in the PEA.   * ***No Impact***: Mark the “*no impact”* box if there is no potential for the project to affect a resource (e.g., the project falls outside a coastal zone). This may include when the activity type has no potential to affect a resource or when the resource type is not present or when the resource is present but not be affected. * ***Less Than Significant Impact***: Mark the “*less than significant impact”* box if the incorporation of mitigation measures will reduce an effect from “*potentially significant impact”* to “*less than significant impact*”. * ***Potentially Significant Impact***: Mark the “*potentially significant impact”* box if impacts remain significant despite the incorporation of mitigation measures, or if impacts fall outside the scope of those considered in the PEA. Check this box for a proposed action that is likely to have significant effects or when the significance of the effects is unknown. * ***Narrative Description:*** Provide narrative responses to for each resource.   + For each box checked “no impact”, identify whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected.   + Provide a narrative for each box checked “less than significant impact” or “potentially significant impact”. Narrative descriptions may be included in the space provided, additional pages may be added, or the excel formatted PEA Questionnaire may be used.   + Include a description of the impact(s) (both construction and operational impacts), provide acreages or linear footage of impacts as appropriate to describe the amount of impact, if known.   + Include a description of associated mitigation measures, Best Management Practices (BMPs), and/or Standard Operating Procedures (SOPs) to avoid, minimize or compensate for impacts.   + Provide adequate supporting references and citations for impact and mitigation assessments. | |

1. ENVIRONMENTAL QUESTIONNAIRE FOR WIFIA Credit Assistance PROJECTS

This questionnaire will be used for most WIFIA funded projects and supports the PEA “tiering” framework, the PEA’s associated preliminary Finding of No Significant Impact (FONSI), and project specific NEPA documentation for the WIFIA program. WIFIA credit assistance to Clean Water and Drinking Water State Revolving Fund(SRF) programs should use the questionnaire in Appendix B.

1. **WIFIA Project name:**

Click or tap here to enter text.

1. **WIFIA Borrower:**

Click or tap here to enter text.

1. **Identify which project type(s) best describe the Project: (Check all that apply):**

|  |
| --- |
| Wastewater Projects |
| Drinking Water Projects |
| Energy Efficiency Enhancement Projects |
| Repair, Rehabilitation, and Replacement Projects |
| Brackish or Seawater Desalination Projects |
| Drought Prevention, Reduction, or Mitigation Projects |
| Acquisition of Real Property Projects |
| Other [Please explain] |

1. **Project Description:** *Describe each project component or subcomponent outlined in the WIFIA Application Section E*. *Answer the questions below about project location for each component or subproject. Attach or provide project maps of the entire project, each project component and ArcGIS project shapefiles, as applicable.*

\*Note: Create additional tables for all components.The Excel formatted PEA Questionnaire may be alternatively used for projects with multiple components.

|  |
| --- |
| **Component Name**: Click or tap here to enter text. |
| **Description:** Click or tap here to enter text. |
| **Component is**:  New  Replacements  Rehabilitation  **Stage of design:**  Planning/Early Design  30% Design  60% Design  90% Design  Final Design  Construction |
| ***If under construction,*** *what work has already been completed? Please include**work such as ground disturbance, tree removal, and building demolition, and corresponding measurements.*  Click or tap here to enter text. |
| **Street address or nearest intersection:**  Click or tap here to enter text. |
| **Site coordinates (Latitude/Longitude in Decimal Degrees):** Click or tap here to enter text. |
| **Describe the current/past site use:** Click or tap here to enter text. |
| **Describe landcover or vegetation:** Click or tap here to enter text. |

|  |
| --- |
| **Component Name**: Click or tap here to enter text. |
| **Description:** Click or tap here to enter text. |
| **Component is**:  New  Replacements  Rehabilitation  **Stage of design:**  Planning/Early Design  30% Design  60% Design  90% Design  Final Design  Construction |
| ***If under construction,*** *what work has already been completed? Please include**work such as ground disturbance, tree removal, and building demolition, and corresponding measurements.*  Click or tap here to enter text. |
| **Street address or nearest intersection:**  Click or tap here to enter text. |
| **Site coordinates (Latitude/Longitude in Decimal Degrees):** Click or tap here to enter text. |
| **Describe the current/past site use:** Click or tap here to enter text. |
| **Describe landcover or vegetation:** Click or tap here to enter text. |

1. Indicate any environmental cross-cutting authorities for which work has already begun prior to the submission of the WIFIA loan application. Please include the file names any applicable documentation for the cross-cutting authority and include the documentation as an attachment to this PEA Questionnaire. (List may not be exhaustive, include any additional federal reviews or concurrences required. Do not include permits in this table.)

\*Note: The excel formatted PEA Questionnaire may be alternatively used for projects with multiple components.

|  |  |  |  |
| --- | --- | --- | --- |
| **Environmental Cross-Cutting Authority** | **Responsible Agency** | **Status** | **Documentation** |
| Endangered Species Act- Section 7 | FWS/NMFS | Not Started  In Progress  Complete  Not Applicable |  |
| National Historic Preservation Act- Section 106 (SHPO) | SHPO | Not Started  In Progress  Complete  Not Applicable |  |
| National Historic Preservation Act- Section 106 (Tribal) | Tribes | Not Started  In Progress  Complete  Not Applicable |  |
| Essential Fish Habitat | NMFS | Not Started  In Progress  Complete  Not Applicable  Unclear if needed at this time |  |

1. Describe any environmental permits or approvals necessary for the proposed project (e.g., federal, state, local) and describe the status of any permits and approvals. Please add additional rows if other environmental approvals are anticipated. Include supporting documentation as attachments, list the file names below. (List may not be exhaustive. Add any additional authorizations or approvals required.)

\*Note: The excel formatted PEA Questionnaire may be alternatively used for projects with multiple components.

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| --- | --- | --- | --- |
| **Permits/Authorization** | **Responsible Agency** | **Status/Applicability** | **Date Issued/ Application Date/Expected Approval Date** |
| Clean Water Act Section 404 permit for impacts to wetlands and waters of the U.S. | USACE/State | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Clean Water Act Section 401 Water Quality Certification | EPA/State | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Section 10 of the Rivers and Harbors Act of 1899 and/or Section 103 of the Marine Protection, Research, and Sanctuaries Act (may be included in the Section 404 Clean Water Act application, referenced above) for impacts to Navigable Waters | USACE | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Clean Water Act Section 402 | State/EPA | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Section 408 (Section 14 of the Rivers and Harbors Act of 1899) Permission for alteration of USACE owned or operated assets | USACE | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Floodplain Permit | State/Local | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Farmland Policy Protection Act | USDA | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |
| Coastal Zone permit or approval | State Coastal Zone Management Agency | Received  Application Submitted  To Be Submitted  Not Applicable  Unclear if needed at this time |  |

\*Note: Additional rows may be added as necessary

1. Identify the estimated amount of ground-disturbing work for each project component or element, include the estimated maximum depth of ground-disturbance and area of ground disturbance. Note:The excel formatted PEA Questionnaire may be alternatively used as well.

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| --- | --- | --- | --- |
| **Project Component** | **Estimated Volume of Ground Disturbance** | **Estimated maximum Depth of Excavation** | **Estimated Area of Ground Disturbance (including length and width)** |
|  |  |  |  |
|  |  |  |  |

\*Note: add additional lines as needed.

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| 1. LAND USE: | Impact Anticipated | | |
| **NO** **Impact** | **Less Than Significant Impact** | **Potentially**  **Significant**  **Impact** |
| * 1. Conversions of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), to non-agricultural use as defined under the Farmland Protection Act 7 U.S.C. 4201 et seq. |  |  |  |
| * 1. Conflicts with any applicable land use plan, policy, act, or regulation of an agency with jurisdiction over the project (including, but not limited to, the general plan, habitat conservation plan, specific plan, local plan, or zoning ordinance). |  |  |  |
| PEA EXAMPLES TO REDUCE LAND USE IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Compatibility with state and local government and private programs and policies. |  |  |  |
| 1. Measures agreed upon in coordination with stakeholders. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| --- | --- | --- | --- |
| 1. AIR QUALITY: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Conflicts with or delays in implementation of any applicable federal, state, or local air quality plan. |  |  |  |
| 1. Violations of any federal air quality standards or contributions to an existing or projected air quality violation (including protected areas designated as mandatory Federal “Class I”). |  |  |  |
| 1. Increases in any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors). |  |  |  |
| 1. Releases of objectionable odors, such as hydrogen sulfide. |  |  |  |
| PEA EXAMPLES TO REDUCE AIR QUALITY IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Odor minimizing facility design or emission control devices. |  |  |  |
| 1. Use of energy efficient technologies, such as anti-idling measures for construction vehicles. |  |  |  |
| 1. Use of dust suppression techniques, such as water for dust suppression, reducing vehicle speeds, cover truck loads during transit, rumble strips, truck washing stations during construction. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| 1. NOISE AND VIBRATION: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies; or generation of noise resulting in public health impacts. |  |  |  |
| 1. Permanent increases in ambient noise levels in the project vicinity above levels existing without the project. |  |  |  |
| 1. Temporary or periodic increases in ambient noise levels in the project vicinity above levels existing without the project. |  |  |  |
| 1. Generation of vibration that could increase the risk of structural damage. |  |  |  |
| PEA EXAMPLES TO REDUCE NOISE IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Compliance with local ordinances and land use designations. |  |  |  |
| 1. Placing intakes and exhausts facing away from sensitive receivers. |  |  |  |
| 1. Attenuation of fan noise and pump and motor noise. |  |  |  |
| 1. Use of general noise reduction measures. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| 1. GEOLOGY and SOILS: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Exposure of people or structures to hazards from unstable soils, landslide, lateral spreading, subsidence, liquefaction or collapse. |  |  |  |
| 1. Increase in soil erosion or loss of topsoil. |  |  |  |
| 1. Loss of economic viable mineral deposits, scientifically significant paleontological resources, or unique geological features. |  |  |  |
| PEA EXAMPLES TO REDUCE IMPACTS TO GEOLOGY AND SOIL: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Use of erosion control and site stabilization BMPs. |  |  |  |
| 1. Implementation of a stormwater pollution prevention plan and fugitive dust control plan. |  |  |  |
| 1. Implementation of effective site selection and design. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| 1. WATER RESOURCES: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Violations of any federal water quality standards or waste discharge requirements, including degradation of water quality. |  |  |  |
| 1. Depletion or contamination of groundwater supplies (including sole-source aquifers) or negatively interfere with groundwater recharge. |  |  |  |
| 1. Alteration of the drainage pattern of a water resource that would result in an increase in erosion or flooding on- or off-site. |  |  |  |
| 1. Soil erosion or stormwater runoff that increases sediment, pollutants, or contaminates into streams, rivers, or other water resources. |  |  |  |
| 1. Floodplain modification, development within, or redirection, as defined by Executive Order 11988. |  |  |  |
| 1. Increase in flood risk affecting loss on human safety, health, and welfare. |  |  |  |
| 1. Loss, degradation, or destruction of wetlands and waterbodies through direct removal, filling, hydrological interruption, or other means. |  |  |  |
| 1. Alteration of wild and scenic rivers as defined by the Wild and Scenic River Act 16 U.S.C. 1271 et seq. |  |  |  |
| 1. Conflicts with the Rivers and Harbors Act, 33 U.S.C. 403. |  |  |  |
| 1. Conflicts with the Coastal Barrier Resources Act, 16 U.S.C. 3501 et seq. |  |  |  |
| 1. Conflicts with the enforceable policies of a state's federally approved coastal management program (the Coastal Zone Management Act, 16 U.S.C. 1451 et seq.). |  |  |  |

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| PEA EXAMPLES TO REDUCE IMPACTS TO WATER RESOURCES: | NOT APPLICABLE | NOT INCORPORATED | INCORPORATED |
| 1. Use of appropriate erosion and sediment control measures, BMPs, and site stabilization. |  |  |  |
| 1. Implementation of effective site selection and design. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| --- | --- | --- | --- |
| F. BIOLOGICAL RESOURCES: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Jeopardizes the continued existence of any federally threatened or endangered species as identified by the U.S. Fish and Wildlife Service (USFWS) or National Marines Fisheries Service (NMFS) in the Endangered Species Act 16 U.S.C. Ch. 35 § 1531 et seq. |  |  |  |
| 1. Adversely modify, fragment, or degrade of critical habitat by the USFWS or NMFS. |  |  |  |
| 1. Modification, fragmentation, or degradation of biological sensitive areas other than designated critical habitat. |  |  |  |
| 1. Harm to fauna, including mammals, birds, reptiles, amphibians, fish, and invertebrates. |  |  |  |
| 1. Changes in vegetation type (native to the region), particularly if the vegetation type in the region is already highly fragmented because of human activity. |  |  |  |
| 1. Potential to injure or disturb marine mammals in U.S. waters as protected under Marine Mammal Protection Act as defined under 16 U.S.C 1361-1407. |  |  |  |
| 1. Reduction in the quality or quantity of Essential Fish Habitat as designated in accordance with the Magnuson Stevens Fisheries Conservation and Management Act. |  |  |  |
| 1. Disturbances to Bald or Golden Eagles as defined under 16 U.S.C. 668 et seq. |  |  |  |
| 1. Disturbances to migratory birds as defined under 16 U.S.C. 703-712 as amended. |  |  |  |
| 1. Conflicts with the provisions of an adopted Habitat Conservation Plan as approved under section 10 (a) (1) (B) of the ESA or other federal habitat conservation plan. |  |  |  |
| 1. Introduction or spread of invasive species as identified under Executive Order 13112. |  |  |  |
| 1. Loss of or damage to wildlife resources due to the control or modification of any stream or other body of water protected by the Fish and Wildlife Coordination Act 16 U.S.C. 661-667e |  |  |  |

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| PEA EXAMPLES TO REDUCE IMPACTS TO BIOLOGICAL RESOURCES: | NOT APPLICABLE | NOT INCORPORATED | INCORPORATED |
| 1. Implementation of avoidance and minimization measures, and BMPs. |  |  |  |
| 1. Adoption of recommendations and conservation measures from USFWS, NMFS and/or the National Oceanic and Atmospheric Administration. |  |  |  |
| 1. Prevention of spills and leaks from vehicles and equipment. |  |  |  |
| 1. Implementation of measures to minimize soil compaction and the transportation of noxious, invasive and pest species. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| --- | --- | --- | --- |
| 1. Cultural RESOURCES: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Potential adverse effects to federally listed and eligible historical properties, including prehistoric and historic sites, historic districts and traditional cultural properties, as defined in 36 CFR part 800. |  |  |  |
| 1. Modification of unique paleontological resources or site or unique geologic features. |  |  |  |
| 1. Disturbance of human remains, including those interred outside of formal cemeteries. |  |  |  |
| 1. Conflicts with Native American Graves Protection and Repatriation Act, as defined in 25 U.S.C. § 3001 et seq. |  |  |  |
| 1. Conflicts with the Archaeological Resources Protection Act, as defined in 16 U.S.C. §§ 470AA-MM |  |  |  |
| PEA EXAMPLES TO REDUCE IMPACTS TO CULTURAL RESOURCES: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Implementation of effective site selection and design. |  |  |  |
| 1. Implementation of avoidance and minimization measures identified in consultation with the State Historic Preservation (SHPO) and/or Tribal Historic Preservation Officer (THPO). |  |  |  |
| 1. Conduct surveys prior to construction. |  |  |  |
| 1. Development of an unanticipated discoveries plan. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| H. SOCIOECONOMIC AND ENVIRONMENTAL JUSTICE: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Changes to the demographics around project location, such as population growth. |  |  |  |
| 1. Modifications to economic factors such as per capita income, unemployment rate, or poverty. |  |  |  |
| 1. Alterations to social assets, such as housing or public services. |  |  |  |
| 1. Disproportionate high and adverse human health environmental effects on minority population and low-income populations as defined under Executive Order 12898. |  |  |  |
| PEA EXAMPLES TO REDUCE SOCIOECONMIC AND ENVIRONMENTAL JUSTICE IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Implementation of construction mitigation measures. |  |  |  |
| 1. Measures identified as a result of conducting meaningful public engagement to environmental justice communities. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| --- | --- | --- | --- |
| 1. TRANSPORTATION AND TRAFFIC: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Changes to traffic patterns around the project area including, but not limited to, the arrival and departure of construction workers, vehicles hauling equipment and materials to the site, road closures or detours, and slower movement and larger turning radii of truck going to project site. |  |  |  |
| PEA EXAMPLES TO REDUCE TRANSPORATION AND TRAFFIC IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Mitigation measures identified in coordination with local agencies. |  |  |  |
| 1. Use of warning signage, flag persons. |  |  |  |
| 1. Use of lane closures and detours as necessary. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| --- | --- | --- | --- |
| J. Utilities and Community Services: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Changes to electric, cable, gas, sewer, water, stormwater, and other existing utility services. |  |  |  |
| 1. Changes to community services, such as open space, recreational and cultural facilities. |  |  |  |
| PEA EXAMPLES TO REDUCE IMPACTS TO UTILTIES AND COMMUNITY SERVICES: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Identification and avoidance of utilities. |  |  |  |
| 1. Coordination with service providers and minimization of service interruption. |  |  |  |
| 1. Mitigation measures identified in coordination with park and recreational resource managers/agencies. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| K. HAZARDOUS AND TOXIC MATERIALS AND WASTE: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Accidental releases, spills, or improper storage and disposal of hazardous materials. |  |  |  |
| 1. Conflicts with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Solid Waste Disposal Act, Toxic Substances Control Act, and Emergency Planning and Community Right-to-Know Act. |  |  |  |
| 1. Generation or increase in the amount of sewage sludge that is not in compliance with EPA standards for the use or disposal of sewage sludge. |  |  |  |
| PEA EXAMPLES TO REDUCE HAZARDOUS AND TOXIC MAERIALS AND WASTE IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Mitigation measures identified through compliance with applicable hazardous and toxic materials laws and regulations. |  |  |  |
| 1. Implementation of environmental protection measures, BMPs, and Standard Operating Procedures (SOPs). |  |  |  |
| 1. Development or Adoption of an Emergency Plan/Emergency Response Plan (or similar). |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| L. HUMAN HEALTH and SAFETY: | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
| 1. Creating occupational health hazards for workers during construction or operation. |  |  |  |
| 1. Creating or contributing to environmental health or public health risks and safety risks that may disproportionately affect children, consistent with Executive Order 13045. |  |  |  |
| 1. Creating or contributing to public health risk of immediate injury or long-term health hazards. |  |  |  |
| PEA EXAMPLES TO REDUCE HUMAN HEALTH AND SAFETY IMPACTS: | **NOT APPLICABLE** | **NOT INCORPORATED** | **INCORPORATED** |
| 1. Implementation of a health and safety plan. |  |  |  |
| 1. Limiting site access to authorized personnel only. |  |  |  |
| 1. Implementation of fugitive dust minimization measures. |  |  |  |

**NARRATIVE DESCRIPTION:** *Please provide a narrative description of the impacts (including construction and operation impacts) associated with any items with checked boxes in the less than significant impact or potentially significant impact columns. Please note for any items with checked boxes in the no impact column whether the activity type has no potential to affect a resource, the resource type is not present at that project location, or the resource is present at that project location but not be affected. Identify and describe any mitigation measures, BMPs and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. Examples that were considered within the PEA are listed in, but not limited to, the table above. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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| M. other environmental effects | Impact Anticipated | | |
| **No Impact** | **Less Than Significant Impact** | **Potentially Significant Impact** |
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\*Note: Additional rows may be added as necessary

**NARRATIVE DESCRIPTON:** *Please identify and describe any other reasonably foreseeable environmental effects from the proposed action not previously identified in Tables A to L that may have less than significant impacts or potentially significant impacts. These effects may include effects that are later in time or farther removed in distance from the proposed action. Identify and describe any mitigation measures, BMPs, and/or SOPs that may avoid, minimize or compensate for the impacts, including those that reduce impacts to less than significant. In addition, provide all mitigation measures, BMPs, and/or SOPs not identified previously in the document that will be included in the project. References to existing supporting documentation (document name, section, page number) may be included as well as a summary of the relevant information.*

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