SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:
Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:
This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:
Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:
For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements—that do not contribute meaningfully to the analysis of the proposal.
A. Background

1. Name of proposed project, if applicable:
   
   Newman Lake Water Quality Improvements

2. Name of applicant:
   
   Spokane County Public Works

3. Address and phone number of applicant and contact person:
   
   Derek Vilar, Project Manager
   Water and Environmental Programs
   Spokane County Public Works
   1026 W Broadway Avenue
   Spokane, WA 99201
   Tel: 509-477-7262

4. Date checklist prepared:
   
   04/17/2024

5. Agency requesting checklist:
   
   Spokane County

6. Proposed timing or schedule (including phasing, if applicable):
   
   Start: July 2024          Complete: December 2025

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   
   None currently, other than ongoing maintenance and monitoring.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

   - Addendum to Environmental Checklist Prepared by Spokane County Engineers Office Determination of Non-significance issued October 10, 1988, Spokane County Engineers Office, 1989
- SEPA review, Determination of Non-Significance, Newman Lake Grant Project, issued January 2020
- Completed by Jacobs Engineering, Environmental Science Practice Staff:
  - Newman Lake Flood Control Zone District Capital Budget Grant Project Phase 1a Report – Final, 2021
  - Newman Lake Water Quality Assessment Report, 2023
  - Alternatives Evaluation Technical Memorandum, 2024
  - Washington State Department of Historic and Archaeological Preservation (DAHP) WISAARD Database search.
  - U.S. Fish and Wildlife Service (FWS) IPaC Information for Planning and Consultation Threatened, Endangered, and Critical Habitat Species List request.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

   None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

   Spokane County – SEPA Environmental Checklist Review (SEPA); expected determination of non-significance (DNS)
   Spokane County Building and Planning – Shoreline Management Act (SMA); expected determination of project exemption.
   Spokane County - Floodplain Development Permit
   WA Dept. of Fish and Wildlife – Hydraulic Project Approval (HPA)
   WA Dept. of Natural Resources – Aquatic Lands Easement

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

   Spokane County (County) and the Newman Lake Flood Control Zone District (NLFCZD) have been awarded funding from the Federal American Rescue Plan Act for the implementation of a Newman Lake Water Quality Improvement project. As part of this project, a detailed analysis of the lake to determine the most effective approach to improving Newman Lake water quality and eliminating harmful algae blooms was completed in 2023. The detailed study recommended the following proposed improvements:

   1) Removing the existing in-lake Speece cone (pump), oxygen delivery and electric lines, and alum lines.
   2) Installing a new linear diffuser system and oxygen delivery lines in place of the existing Speece cone. Linear diffuser will be approximately 1,000 to 1,500-feet in length.
3) Upgrading the pressure swing adsorption (PSA) oxygen generation equipment in the existing Compressor Building.

4) Other miscellaneous upgrades in the existing Compressor Building.

General construction details or components of the proposed new diffuser system are:
- The linear diffuser piping will float above concrete anchors on stainless steel tether cables. The concrete anchors weigh about 65 pounds each and are spaced approximately every 15’ along the diffuser.
- Typically, 6” to 12” stainless steel cable tether lengths are used to place the linear diffuser porous hose about 18” to 24” above the lake bottom. The tether length may be adjusted to other lengths, longer or shorter) during installation depending on a desired distance above the lake bottom or map bathymetry to maximize oxygen transfer efficiency.

Refer to Attachment A for graphic examples of typical line diffuser components and installation details.
Refer to Figures 1-3 for the project’s plan and section details.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

This project will occur in the same location as the existing lake oxygenation facility on Newman Lake, in the Sutton Bay area. The compressor building is located off N Sutton Bay Road/E Shadow Bay Lane, approximately 830 feet west of Park Beach Road. The legal description for this project is: in Portions of Section 10, Township 26 North, Range 45 East, Willamette Meridian, Spokane County, Washington. The project location latitude and longitude, decimal locations are: 47.76695 N / -117.104386 W.

There is currently no street address for the project site. Driving directions to the project, coming from Spokane, are:
- East on Highway 290 (Trent Ave), following signage to Newman Lake. Left (north) turns on either N Starr Rd or N Idaho Rd, which becomes E Moffat Rd to the town of Newman Lake.
- Continue north on N Starr Rd (or turn right/north off E Moffat Rd onto N Starr Rd) approximately ½ mile to NW Newman Lake Dr, turn left (west).
- Travel on NW Newman Lake Dr for approximately 2 miles. Take a right on N Sutton Bay Rd.
- Continue N Sutton Bay Rd approximately ¼ mile to E Shadow Bay Ln and take a left.
- Approximately 1000 feet, watch for a wide-spot pullout on the left and the compressor/storage buildings.
- Continue on Sutton Bay Rd to the Sutton Bay Resort community dock for parking.
**B. Environmental Elements** [HELP]

1. **Earth** [help]

   a. General description of the site:

      The project site is a level, flat section of shoreline from the ordinary high-water mark (OHWM) of the lake for approximately 30 feet within the 10-foot-wide upland easement. From that point, the easement is a steep slope with large rock outcroppings and mature trees for approximately 100 feet where it levels near N Sutton Bay Road and across the road to the existing compressor building. At the lake edge (aka OHWM) the site is highly disturbed from historic residential and recreational development and use.

      Refer to Attachment B for existing conditions photos of the site.

      (circle one): Flat, rolling, hilly, steep slopes, mountainous, other:

   b. What is the steepest slope on the site (approximate percent slope)?

      The steepest slope (70%) on the project site is about 30 feet from the OHWM of the lake, within the 10-foot-wide uplands easement. Native rock outcroppings and existing mature trees characterize this stable, undisturbed area.

   c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

      (From the USDA Spokane County Natural Resources Conservation Service (NRCS) Soil Survey (6/2016) Online Copy, accessed 1/24/2024)

      Sutton Bay: 5141 – Jacot-Hysing complex, 15-30% slopes

      The project location is not within agricultural land of long-term commercial significance.

      No soils will be removed because of the project work.

   d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

      No

   e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

      Below the OHWM: No cut or fill impacts are proposed.

      Above the OHWM: Existing vegetation that has grown in the 10-foot easement since the 1992 oxygen delivery, alum and electric line installation of the existing system will need to be removed in some areas for safe, effective access for removal of the old system and installation of the new system. It will be just the minimum needed and will involve clearing activities only. The existing flat 10-foot-wide uplands easement work area is expected to be adequate for the contractor. It’s not expected to be required, but
if any excavation or fill activities are deemed necessary, it will be less than 10 cubic yards (CY) of total impact in potentially jurisdictional areas, i.e., below the OHWM. Overall earth disturbance in upland portions of the proposal will be less than one acre.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Due to the minimal area of excavation/fill impacts, along with timing (i.e., during Summer/early Fall or low precipitation events), and because the work area is flat, disturbed, stable shoreline or rock/matured vegetated slopes, erosion is unlikely. However, a project/site-specific Temporary Erosion and Sediment Control plan (TESC) will be prepared with appropriate erosion and sediment control best management practices (BMPs) identified for installation prior to earth disturbing activities. The BMPs will be inspected, managed, maintained, for effectiveness until disturbed soil areas are stabilized by vegetation or rock cover.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Less than 1% of the project upland work limits will be covered with impervious surfaces (i.e., the buildings) and it will be no different than what currently exists.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

A TESC will be developed and implemented for BMPs as previously described (B.1.f). After construction, disturbed soil areas will be stabilized and restored to pre-work conditions with native grasses/riparian vegetation or covered with angular, small rock, such as 1” minus gravel.

2. Air [help]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Minor amounts of dust may be generated during vegetation clearing and contractor equipment operations. Equipment and vehicles used will be in good working condition, but nonetheless may generate minor amounts of carbon monoxide and particulate emissions.

Access for vehicles will be via existing roads. Both dust and vehicle/equipment emissions associated with the project will be temporary.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Project work activities that will create emissions or other impacts, such as dust generating actions, will be kept to the minimum needed to safely and efficiently to remove the old system as described and
install the new system. If needed, water will be applied to dry, exposed soil areas or gravel rock cover to control dust.

Equipment and vehicles working on the project will be in good working condition to minimize emissions. Equipment will be turned off when not in use.

Air quality impacts are expected to be minimal and temporary.

3. Water [help]

a. Surface Water: [help]

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Surface water (Newman Lake) is on and adjacent to the project site. There is no natural outlet of Newman Lake, but there is a man-made outlet channel that carries lake runoff to an area known as the Newman Lake Sump. This in turn infiltrates into the ground and provides recharge waters to the Spokane Valley-Rathdrum Prairie Aquifer.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, a portion of the project will occur in and adjacent to Newman Lake. An aquatic lands easement with DNR is in place for the current system.

Refer to Attachment C for excerpts/details of the current DNR easement. A new easement will be prepared after the new system is installed and recorded.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

There is no proposed fill or dredging below the OHWM of Newman Lake.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Yes, the entire in-water area is designated by the Federal Emergency Management Administration (FEMA) as a “Special flood hazard area subject to inundation by the 1% annual chance of flood and additionally designates the Sutton Bay area of Newman Lake as Zone AE – base flood elevations determined.”
6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

   No

b. Ground Water: [help]
   1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

   No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

   Not applicable

c. Water runoff (including stormwater):
   1) Describe the source of runoff (including stormwater) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

   Existing buildings’ impervious surfaces in the project work limits are the only expected sources of runoff. There will be no change to this area, approximately 144 square feet (SF). The area is below the threshold for a permanent stormwater plan or collection/treatment system. Current runoff quantities are low and infiltrate into the adjacent permeable, vegetated or rock-covered surfaces. The existing 10-foot-wide uplands easement is currently stable with no evidence of erosion or discharge/runoff off the easement. There are no proposed new earth disturbing activities to this area so runoff is unlikely or will be no different than existing conditions.

   2) Could waste materials enter ground or surface waters? If so, generally describe.

      No

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

      No
d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

A project/site-specific TESC will be developed and implemented prior to construction and earth disturbing activities. BMPs identified will be managed and maintained to be effective in reducing and controlling surface stormwater runoff.

4. **Plants**

a. Check the types of vegetation found on the site:

- [X] deciduous tree: alder, maple, aspen, other
- [X] evergreen tree: fir, cedar, pine, other
- [X] shrubs
- [X] grass
  - [ ] pasture
  - [ ] crop or grain
  - [ ] Orchards, vineyards or other permanent crops.
  - [ ] wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
  - [ ] water plants: water lily, eelgrass, milfoil, other
  - [ ] other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Existing vegetation, grown since the original system installation, may require some clearing or cutting. Permanent removal or grubbing of roots is not proposed. The area that may require clearing for safe, efficient project staging and access is expected to be 4,000+/- square feet (SF).

c. List threatened and endangered species known to be on or near the site.

The WA Department of Natural Resources (DNR) “2021 WA Vascular Plant Species of Conservation Concern List” and the US Fish and Wildlife online “IPaC” Information for Planning and Consultation databases were reviewed. Spalding’s Catchfly (*Silene spaldingii* – status of Threatened for both the State and Federal listings) was the only listed plant species known to exist in Spokane County. However, appropriate habitat conditions (Pacific Northwest bunchgrass grasslands and sagebrush -steppe, and occasionally in open-canopy pine stands) do not exist on or near the project site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Disturbed soil areas within the 10-foot-wide uplands easement, on the flat area between the OHWM of Newman Lake and the slope up to the compressor building, will be reseeded with a native, riparian seed and mulch after soil disturbing activities are completed.
e. List all noxious weeds and invasive species known to be on or near the site.

Reed canarygrass (*Phalaris arundinacea*) was observed onsite. It is a noxious weed by both the Washington State Noxious Weed Control Board and Spokane County.

5. Animals [help]

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

- birds: hawk, heron, eagle, songbirds, other:
- mammals: deer, bear, elk, beaver, other: small rodents (mice, rabbits):
- fish: bass, salmon, trout, herring, shellfish, other ________

b. List any threatened and endangered species known to be on or near the site.

The WA Department of Fish and Wildlife (WDFW) “May 2023 State Listed Species” data and the US Fish and Wildlife online “IPaC” Information for Planning and Consultation databases were reviewed. Below is a summary table of species known to be present in Spokane County but are unlikely to be present at the project site due to appropriate habitat not being present.

<table>
<thead>
<tr>
<th>Species</th>
<th>State Listing</th>
<th>Federal Listing</th>
<th>Presence (i.e. appropriate habitat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grizzly Bear <em>Ursus arctos horribilis</em></td>
<td>Endangered</td>
<td>Threatened</td>
<td>No</td>
</tr>
<tr>
<td>North American Wolverine <em>Gulo gulo luscus</em></td>
<td>Candidate</td>
<td>Threatened</td>
<td>No</td>
</tr>
<tr>
<td>Yellow-billed Cuckoo <em>Coccyzus americanus</em></td>
<td>Endangered</td>
<td>Threatened</td>
<td>No</td>
</tr>
<tr>
<td>Bull Trout <em>Salvelinus confluentus</em></td>
<td>Candidate</td>
<td>Threatened</td>
<td>No</td>
</tr>
<tr>
<td>Monarch Butterfly <em>Danaus plexippus</em></td>
<td>Candidate</td>
<td>Candidate</td>
<td>No</td>
</tr>
<tr>
<td>Spalding’s Catchfly <em>Silene spaldingii</em></td>
<td>Threatened</td>
<td>Threatened</td>
<td>No</td>
</tr>
</tbody>
</table>

c. Is the site part of a migration route? If so, explain.

Unknown

d. Proposed measures to preserve or enhance wildlife, if any:

The project work limits will be reviewed prior to mobilization of equipment and materials for the presence of active bird nesting sites or animal dens. If observed, they will be assessed for being any protected species and if so, appropriate avoidance and minimization BMPs will be identified and implemented. Otherwise, the project will be constructed to avoid and/or minimize impacts to existing
wildlife presence, vegetation, and shoreline habitat to the greatest extent practicable. Areas that are disturbed will be restored to pre-work conditions.

Additionally, the project is intended to increase dissolved oxygen in the hypolimnion of Newman Lake and reduce vertical mixing currently caused by the Speece Cone system. Increased dissolved oxygen is intended to reduce mobilization of sediment phosphorus leading to reduce algae growth. Reduced vertical mixing and increased dissolved oxygen may also improve fish habitat in the lake.

e. List any invasive animal species known to be on or near the site.

None known.

6. Energy and Natural Resources [help]

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

   Electricity is present at the site and a drilled water well is located next to the Compressor Building. No new utilities are proposed for use for this project.
   
   Electricity will be used to run the oxygen generating equipment located in the Compressor Building.
   
   Communications utilities (telephone, fiber optics) may be present in the vicinity of the project work area.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

   No

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

   Contractor equipment will be in good working condition and in compliance with energy efficiency conservation features to the greatest extent possible. The old system’s 60 HP pump and electrical lines to the lake are no longer needed and will be removed.

7. Environmental Health [help]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

   No

   1) Describe any known or possible contamination at the site from present or past uses.

   None known.
2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

Not applicable

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project’s development or construction, or at any time during the operating life of the project.

The existing system and proposed system generate high purity oxygen to be injected into Newman Lake for lake health and water quality improvements. Oxygen is not flammable, but it can cause other materials that burn to ignite more easily and to burn more rapidly.

4) Describe special emergency services that might be required.

No special emergency services are required, other than what’s required by local fire code and response procedures.

5) Proposed measures to reduce or control environmental health hazards, if any:

The construction contractor will be required to meet Occupational Safety and Health Act and Washington Industrial Safety and Health Act requirements for safety, as related to working with pure oxygen systems. Spokane County will follow similar requirements while operating the system. Appropriate permanent safety provisions will be installed with the project.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction activities may increase noise in the project work area but will be temporary.

3) Proposed measures to reduce or control noise impacts, if any:

Construction activities will take place during daylight hours, Monday through Friday, for the duration of the project. New equipment located in the Compressor Building is anticipated to be quieter than the existing equipment it will replace.
8. Land and Shoreline Use  [help]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The project site is currently used for the existing in-water Speece cone and oxygen/alum water quality system lines and upland-located compressor building. Access for monitoring and maintenance of the system is another use of the project site. Adjacent properties are developed residential and/or recreational sites. Contractor access will be through the Sutton Bay Resort and coordinated with property managers to avoid and minimize effects to the resort or other private residential properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe.
How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Not applicable

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversized equipment access, the application of pesticides, tilling, and harvesting? If so, how:

Not applicable

c. Describe any structures on the site.

Structures on the project site are the Compressor and Storage Buildings, off E Shadow Bay Ln, off N Sutton Bay Rd.

d. Will any structures be demolished? If so, what?

The Speece cone used for the current system will be removed and disposed of in commercial recycle, reuse, or refuse locations.

e. What is the current zoning classification of the site?

Rural Conservation and Rural Traditional

f. What is the current comprehensive plan designation of the site?

Same as the current zoning
g. If applicable, what is the current shoreline master program designation of the site?

   Rural Conservation, Natural

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

   Spokane County has designated Newman Lake as a Critical Aquifer Recharge Area (CARA) – Low and
   High

i. Approximately how many people would reside or work in the completed project?

   None

j. Approximately how many people would the completed project displace?

   None

k. Proposed measures to avoid or reduce displacement impacts, if any:

   Not applicable

l. Proposed measures to ensure the proposal is compatible with existing and projected land
   uses and plans, if any:

   There will be no changes to existing and projected land uses.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term
   commercial significance, if any:

   Not applicable

9. **Housing**  [help]

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or
   low-income housing.

   None

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

   None

c. Proposed measures to reduce or control housing impacts, if any:

   Not applicable
10. **Aesthetics** [help]
   a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

      The Compressor Building is approximately 10 feet tall. No new structures are proposed.

   b. What views in the immediate vicinity would be altered or obstructed?

      Project elements are below the existing trees overhead canopy, so don’t block views any more than the existing vegetation does. Views in the immediate vicinity will not be obstructed.

   c. Proposed measures to reduce or control aesthetic impacts, if any:

      None

11. **Light and Glare** [help]
   a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

      No light or glare will be generated because of the project.

   b. Could light or glare from the finished project be a safety hazard or interfere with views?

      Not applicable

   c. What existing off-site sources of light or glare may affect your proposal?

      None known

   d. Proposed measures to reduce or control light and glare impacts, if any:

      Not applicable

12. **Recreation** [help]
   a. What designated and informal recreational opportunities are in the immediate vicinity?

      Fishing, swimming, camping, bicycling, walking, boating from either private access points to the lake or via access from public access areas, such as the WDFW Newman Lake Boat Launch northeast of the project location or the McKenzie Conservation Area, north of the project area, managed by Spokane County.

   b. Would the proposed project displace any existing recreational uses? If so, describe.

      There may be a temporary impact to recreationists associated with the nearby Sutton Bay Resort or to
other adjacent private properties. Impacts would be during contractor access and materials staging, and/or during the removal of the old system via haul trucks or trailers and would be temporary.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Construction worker access and/or material movement haul times would be scheduled to minimize impacts to local recreationists, such as during weekdays and daylight hours.

13. Historic and cultural preservation [help]

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

None known.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Jacobs archaeological staff conducted a due diligence, desk-top data review of the DAHP via the Washington Information System for Architectural and Archaeological Records Data (WISAARD) database. The results showed no known cultural or historic resources to be known within 0.75 miles of the project area.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

A project and site-specific Inadvertent Discovery Plan (IDP) for the protection of unknown cultural and historic resources will be prepared and reviewed with the contractor prior to any earth disturbing activities. The IDP will identify the process and protocol to follow if the project work activities discover any potential historic or cultural resources.

14. Transportation [help]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Refer to details in Section A.12 of this checklist for more details, but generally the public streets serving the site are, from the town of Newman Lake:
N Starr Rd; NW Newman Lake Dr; N Sutton Bay Rd; E Shadow Bay Ln; E Park Beach Rd

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No public transit serves the project area. The closest public transit (Spokane Transit) service is the Mid-Valley Route #95, with the nearest stop approximately 9.5 miles to the west on East Garland Ave west of North Barker Road.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

Zero/Zero

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

Not applicable; maintenance of the new system may require up to two travel days per year by Spokane County staff.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No

h. Proposed measures to reduce or control transportation impacts, if any:

None
15. Public Services [help]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No

b. Proposed measures to reduce or control direct impacts on public services, if any.

None

16. Utilities [help]

a. Circle utilities currently available at the site:
   - electricity
   - natural gas
   - water
   - refuse service
   - telephone
   - sanitary sewer
   - septic system
   - other
   - a water well next to the Compressor Building

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No new utilities are proposed for the project.

C. Signature [HELP]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: [Signature]

Name of signee: Ben Brattebo

Position and Agency/Organization: Water Programs Manager, Spokane County Public Works

Date Submitted: 17 April 2024
D. Supplemental sheet for nonproject actions [HELP]

(ITAL IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

   The project is unlikely to increase discharge to water; emissions to air; the production, storage, or release of toxic or hazardous substances; or production of noise to the project vicinity.

   Proposed measures to avoid or reduce such increases are:

   The project will avoid or reduce the minor increases or impacts described via a good design, construction timing, using a contractor skilled and competent for the scope of the project work, and environmental compliance monitoring for management of BMPs described in this checklist.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

   The project is unlikely to affect plants, animals, or fish in the project vicinity other than minimally during the in-water work activities of removing the old system and installing the new system. Both activities are temporary.

   Proposed measures to protect or conserve plants, animals, fish, or marine life are:

   The project itself will improve lake health and water quality of Newman Lake. The construction of the project will be done in a responsible, coordinated manner to avoid and minimize the temporary impacts to wildlife.

3. How would the proposal be likely to deplete energy or natural resources?

   The proposal is unlikely to deplete energy or natural resources.

   Proposed measures to protect or conserve energy and natural resources are:

   Construction equipment will be in good working order, operating efficiently as possible. BMPs will be in place during construction to protect natural resources.
4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

   The project is along the shoreline and within a defined area of Newman Lake, but effects to environmentally sensitive areas are expected to be temporary, during construction.

   Proposed measures to protect such resources or to avoid or reduce impacts are:

   The project itself is a water quality or lake health improvement project. The design and proposed construction BMPs will protect, avoid, and/or minimize impacts to environmentally sensitive areas or areas eligible for special government protection.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

   The project will not affect land or shoreline use, other than the described temporary impacts during the demolition of the old system and the installation of the new system. The construction effects and final project’s impacts will not be any different than what currently exists. As such the proposal will continue to be compatible with existing shoreline management plans.

   Proposed measures to avoid or reduce shoreline and land use impacts are:

   None, except for the described new technology, scheduling during dryer months, and construction BMPs described.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

   There will be no increased demands on public transit or other public services and utilities because of the project.

   Proposed measures to reduce or respond to such demand(s) are:

   Not applicable

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

   The project will not conflict with local, state, or federal environmental regulatory laws or standards. Required permits or authorizations will be in place with conditions and commitments identified and complied with.
Attachment A – Newman Lake, WA Proposed Water Quality Improvements, Examples of Typical Line Diffuser Sections
NTS – Typical Line Diffuser Details at the Interface of the Lake Edge and Upland (i.e., OHWM)
Red Arrows point in the direction of the existing conditions photo-view.

Number Boxes correspond with descriptions in the following table.
1 - View to the north across Newman Lake of the area where the new system will be installed. Photo from the OHWM, at the existing lines.

2 - View of existing system supply lines.

3 - (left photo) View to the south along the 10-foot-wide easement edge (yellow dashed line) of the supply line valve boxes.

4 - (right photo) View to the east of the supply line valve boxes. Conduit (see photo 6) for the old and ultimately new supply lines to be within, goes into these boxes from the compressor building off of North Sutton Bay Road.
5 – View to the south at the existing 10-foot-wide uplands easement, taken from the OHWM of existing vegetation above the OHWM. Some may be cut, not grubbed, for installation of the new supply lines.

6 - View to the south, up the slope in the 10-foot-wide easement towards the Compressor Building on North Sutton Bay Road.

7 – View to the west (Sutton Bay Resort) from the western edge of the 10-foot-wide uplands easement. Highly disturbed shoreline from this area through the easement. No riparian habitat.

8 – View to the east (adjacent private property). Some vegetation within the 10-foot-wide easement may be cleared (not grubbed) for old supply line removal and new supply line installation. Impacts <10CY.
Excerpt from Existing WQ Oxygen Diffuser System’s WA Department of Natural Resources (DNR) Aquatic Lands Easement No. 51-100736, dated 08/2020
Plan Overview

Applicant: Spokane County - Water & Environmental Program, Public Works
Project Name: Newman Lake Water Quality Improvements
Location: Newman Lake, Washington
Date: 4/2/2024
Legal Description: A portion of the SE 1/4 of the NW 1/4 of section 10, township 26 north, range 45 east
Willamette Meridian, Spokane County, Washington

Legend
- Cross-Section
  - Existing Oxygenation Speece Cone
  - Existing Alum, Electric, and Oxygen Lines
  - Existing Oxygen Distribution Pipe
  - New Supply Lines
  - New Diffuser
- Compressor Building
- Existing Aquatic Lands Easement
- Road Right-of-Way
- Proposed Aquatic Lands Easement
- 10-ft Easement (On Private Property)
- Lake Depth Contour
- Ordinary High Water Mark (2129.5' NAVD 88)

Sheet Information

<table>
<thead>
<tr>
<th>Drawing No.</th>
<th>Sheet No.</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 of 3</td>
<td>As Shown</td>
</tr>
</tbody>
</table>
Project Location: Newman Lake, Washington

Legend:
- Cross-Section
- Existing Alum, Electric, and Oxygen Lines
- New Supply Lines
- Existing Aquatic Lands Easement
- Road Right-of-Way
- Private Property Line - Approximate
- Proposed Aquatic Lands Easement
- 10-ft Easement (On Private Property)
- Lake Depth Contour
- Ordinary High Water Mark (2129.5'- NAVD 88)

Diagrammatic representation of the project area showing the existing system to be removed and the new supply line. The map includes a scale for miles and feet, showing the location of Newman Lake within Seattle, Washington, and Portland, Oregon. The legend provides information on the various features and elements of the project, such as the existing and new supply lines, easements, and water depth contours.

Plan Overview - OHWM Detail Map

Applicant: Spokane County - Water & Environmental Program, Public Works
Project Name: Newman Lake Water Quality Improvements
Location: Newman Lake, Washington
Date: 4/2/2024
Legal Description: A portion of the SE 1/4 of the NW 1/4 of section 10, township 26 north, range 45 east Willamette Meridian, Spokane County, Washington

Drawing No.: 1
Sheet No.: 2 of 3
Scale: As Shown
Legend:
- Water Surface
- Existing Alum, Electric, and Oxygen Lines
- New Supply Lines
- New Diffuser
- Compressor Building
- Existing Oxygenation Speece Cone
- Proposed Work - Cross-Section

Applicant: Spokane County - Water & Environmental Program, Public Works
Project Name: Newman Lake Water Quality Improvements
Location: Newman Lake, Washington
Date: 4/2/2024
Legal Description: A portion of the SE 1/4 of the NW 1/4 of section 10, township 26 north, range 45 east Willamette Meridian, Spokane County, Washington

Existing lines from compressor building to system lines in the lake:
- Electrical - to be removed
- Oxygen - to be replaced
- Alum - to be removed
- Spare Conduit - TBD

Existing lines from compressor building to system lines in the lake:
- Electrical - to be removed
- Oxygen - to be replaced
- Alum - to be removed
- Spare Conduit - TBD

Proposed supply line - to be floated in place and sunk, anchored via weights to lake bottom

Proposed diffuser lines will be several inches above the lake bottom (18"-24" approx.)

Ground Surface

Lake Bottom

Compressor Building

Newman Lake

Existing speece cone - to be removed

Existing system lines - to be removed

Existing speece cone - to be removed

Existing system lines - to be removed

Existing diffuser lines will be several inches above the lake bottom (18"-24" approx.)

Seattle
Washington
Portland