

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of proposed project, if applicable:

Water System Plan Update

2. Name of applicant:

North Beach Water District

3. Address and phone number of applicant and contact person:

William Neal, General Manager
North Beach Water District
Po Box 618
Ocean Park, Washington 98640
(360) 665-4144

4. Date checklist prepared:

February 2015

5. Agency requesting checklist:

Washington State Department of Health

6. Proposed timing or schedule (including phasing, if applicable):

Approval of Draft Plan:	March 2015
Adoption of Final Plan:	July, 2015
Planning Horizon:	Six Years

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

This plan establishes recommended capital improvements for North Beach Water District water system, which may be implemented as individual projects at the District's discretion.

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

None Known

- 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.**

Washington State Department of Health: Water System Plan Approval
Washington State Department of Ecology: Water Rights Concurrence
Pacific County: Water System Plan Consistency Statement

- 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.)**

The Water System Plan is a planning document for the North Beach Water District water system, which has been prepared in accordance with the requirements of WAC 246-290. The plan addresses the ability of the water system to provide potable water supply within the District's service area. The plan identifies recommended water system capital improvement projects according to a prioritization schedule. These identified projects are anticipated to be necessary to provide adequate water service for anticipated growth and development over a 20-year planning horizon. As required, each individual water system capital improvement project will be subject to environmental evaluation and assessment as the projects are implemented in their various stages.

- 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.**

The Water System Plan has been developed to address the anticipated potable water service needs for the District's water service area.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☐ flat, ☐ rolling, ☒ hilly, ☐ steep slope, ☐ other. . . .

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

Elevations range from a low of approximately Sea Level adjacent to the Pacific Ocean, to a high of approximately 45 feet. Slopes of any magnitude fall within these elevations and are very localized.

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.

The soils on the North Beach peninsula are composed of deeply weathered and eroded basalt-derived fine sand, gravel, and clay. The upper soil strata is predominately dune sand with clay lenses to depths of 80 to 180 feet before silt, blue and gray clay, and gravel deposits are reached that extend to basalt layers near 700 feet.

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.

No grading or filling is expressly proposed by the Water System Plan. Grading and or filling associated with individual recommended capital improvement projects may be required during the construction and implementation of individual projects. Such impacts will be evaluated on a project specific basis.

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

Construction associated with recommended water system capital improvement projects will include protective measures for erosion control where necessary.

Appropriate best management, erosion control, and mitigative measures will be determined on a project specific basis prior to the actual time of construction.

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

To be determined on a project specific basis prior to the actual time of construction for recommended water system capital improvement projects.

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

No earth impacts are anticipated as a result of Water System Plan adoption. Project specific impacts will be evaluated on a project specific basis.

2. Air

- 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.**

Recommended water system capital improvement construction projects should not result in impacts to air quality with the possible exception of dust and vehicle emissions from construction equipment. Specific impacts will be evaluated on a project specific basis.

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

None.

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

No air impacts are anticipated as a result of Water System Plan adoption. Project specific impacts will be evaluated on a project specific basis.

3. Water

a. Surface Water:

- 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.**

Yes, there are several small lakes in the District's water service area, including Loomis Lake, Lake Rushton, and other small un-named lakes and ponds, wetland areas, and man-made canals. The Pacific Ocean is immediately to the west of the District and Willapa Bay to the east of the water service area.

- 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.**

No. The proximity of recommended improvements to surface water will be more specifically evaluated on a project specific basis.

- 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.**

None anticipated.

- 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.**

No.

- 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:

- 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.**

The District's water system uses groundwater supplies exclusively. Groundwater is currently and will continue to be withdrawn from six existing active groundwater wells, and possible future groundwater wells, under existing water rights. Wells are located in a wellfield on 272nd Street between U Street and Sandridge Road and a wellfield on 255th Lane east of U Street. No new water rights are anticipated to be necessary within the planning horizon.

- 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.**

The water treatment discharges filter backwash water to shallow infiltration ponds. The backwash water contains insoluble particles of iron and manganese oxides, naturally occurring in the local groundwater and removed from the water by a filtration process. These particles are retained in the sandy soil of the percolation basins and clean water percolates to the water table. The backwash water is periodically monitored to ensure its quality. Accumulated iron and manganese oxide particles are periodically removed from the backwash basins. The materials are inorganic, odorless, and are generally suitable for land spreading as a soil amendment.

The District's water system served a total of 3,194 customers as of the end of 2013. The Water System Plan projects a total of 3,989 connections by the end of 2035, and 4,250 total connections at system buildout. All connections are on septic tank/drainfield wastewater disposal systems.

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) 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.**

Not Applicable. Project specific impacts will be evaluated on a project specific basis.

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:

None.

4. Plants

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

- ☒ Deciduous tree: alder, maple, aspen, other
- ☒ Evergreen tree: fir, cedar, pine, other
- ☒ Shrubs
- ☒ Grass
- ☐ Pasture
- ☒ Crop or grain
- ☒ 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?

None. Project specific impacts will be evaluated on a project specific basis.

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

To be determined on a project specific basis.

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

To be determined on a project specific basis.

e. List all noxious weeds and invasive species known to be on or near the site.

To be determined on a project specific basis.

5. Animals

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

- ☐ Not applicable.
- ☒ Birds: hawk, heron, eagle, songbirds, other:
- ☒ Mammals: deer, bear, elk, beaver, other:
- ☒ Fish: bass, salmon, trout, herring, shellfish, other;

The Washington Department Fish and Wildlife (WDFW) provided maps and data sheets relating to fish and bird species in the vicinity of North Beach Water District. The maps and data show numerous mollusk and shellfish species that reside on the west and east coastline of the North Beach Peninsula.

"Regular large concentrations" of Trumpeter Swan and Tundra Swan were noted, along with "regular large concentrations" of wintering waterfowl including mallards, pintails, bufflehead, teal, and Canada geese. In 1982 one "breeding occurrence" was noted for great blue heron and in 1998 an "individual occurrence" was noted for peregrine falcon.

Of the bird species noted above, only great blue heron and peregrine falcon are listed by Washington State as "sensitive species" and federally listed as "priority" species. However, sensitive and priority species receive no protection under the Endangered Species Act (ESA). In addition, the great blue heron and peregrine falcon occurrences were over a mile from the North Beach Water District water service area.

Deer, squirrels, mice, rabbits and other common wild mammals are common in the area. Black bears have been occasionally reported in the area. No known rare or endangered mammals are known in the area.

Numerous fish species are common in the Pacific Ocean and in Willapa Bay near the project site.

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

None known.

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

The entire Washington Coast and Puget Sound basin is a part of the Pacific Flyway.

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

None Required.

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

None known.

6. Energy and natural resources

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.

All water treatment, pumping and operations equipment, building lighting and heating is accomplished with electrical energy. Electrical power is provided by Pacific County PUD.

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:

The District's water system plan addresses Water Use Efficiency, including Water Use Efficiency Goals and Measures adopted by the District's Board of Commissioners. Since all at the District's water system water is pumped using electrical energy, all water conservation is directly related to energy conservation.

7. Environmental health

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.

This will need to be evaluated on a case by case basis for individual projects as they are implemented.

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.**

None known.

- 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.**

No.

- 4) Describe special emergency services that might be required.**

None.

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

None Required

b. Noise

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

None anticipated.

- 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.**

Project specific impacts will be evaluated on a project specific basis.

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

None.

8. Land and shoreline use

- 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.**

A variety of land uses exist in the District's water service area. Land uses are identified in Figure 1-13 in the water system plan. The predominant land use is identified as General Rural. Other land uses in or adjacent to the area are Community Crossroads and Public Reserve. The majority of the service area has been subdivided for residential development.

- 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?**

No agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal.

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

No.

- c. Describe any structures on the site.**

There are approximately 2,570 residential structures, 105 commercial structures in the District's water service area.

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

No.

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

Zoning within the District's water service area include Restricted Residential (R1), General Residential (R2), Rural Residential (RR), Community Commercial (CC), and Resort (R3).

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

Pacific County Comprehensive Plan designations within the District's water service area include General Rural, Community Crossroads, and Public Reserve.

- g. If applicable, what is the current shoreline master program designation of the site?**

Not Applicable.

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

No.

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

It is estimated that the current residential population of the District's water service area is approximately 4,010. In addition it is estimated that approximately 3,000 individuals use the system seasonally, and up to 10,000 transient users may visit per month. The water system plan projects occupancy to increase by approximately 20 percent by 2035, and by 33 percent by system buildout.

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

None.

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

None.

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

The District must obtain a concurrently statement from the Pacific County Planning Department, specifically stating that the water system plan is consistent with the county land use plans.

- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:**

None.

9. Housing

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

The proposal will not provide any high, middle or low income housing. The Water system plan does, however, provide planning for the water supply needs for all housing within the District's water service area.

- 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:**

None.

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?**

Not Applicable,

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

Not Applicable.

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

None

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?**

Not Applicable.

- 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?

Not Applicable.

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

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Beach, ocean, wildlife refuge, golf course, lakes, camping, fishing, picnic grounds, play fields.

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

No.

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

None.

13. Historic and cultural preservation

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 located on or near the site? If so, specifically describe.

No.

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.

This will be evaluated on a project specific basis.

- 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.**

Assessment will be completed on a project specific basis.

- 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.**

This will be evaluated on a project specific basis.

14. Transportation

- 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.**

The District's water service area is served by a number of County Roads as shown in the Water System Plan Figures 1-11 and 1-12.

- 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?**

The Pacific Transit System stops at Jacks County Store on Vernon Avenue and also at the Post Office. Pacific Transit will stop for citizens along the road who wave their hand and where there is enough space for the bus to pull over.

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

Not applicable

- 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.

- 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

- 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

- a. Check utilities currently available at the site:

- | | |
|-------------------------------------|------------------|
| ☒ | electricity |
| ☐ | natural gas |
| ☒ | water |
| ☒ | refuse service |
| ☐ | sanitary service |
| ☒ | septic system |
| ☐ | other: |

- 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.

Electrical power is provided by Pacific County PUD. Water is provided by the District. Septic systems are the responsibility of individual property owners.

C. SIGNATURE

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:



Name of signee:

William Kneal

Position and Agency/Organization:

General Manager

Date Submitted:

3/30/2015

D. SUPPLEMENTAL SHEET FOR NONPROJECT 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?**

Not applicable.

Proposed measures to avoid or reduce such increases are:

Not applicable.

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

Not applicable.

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

Not applicable.

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

Not applicable.

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

Not applicable.

- 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?**

Not applicable.

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

Not applicable.

- 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?**

Not applicable.

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

Not applicable.

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

Not applicable.

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.**

Not applicable.