

CITY OF SNOHOMISH
ENVIRONMENTAL CHECKLIST

FILE NO.

DATE RECEIVED:

I. BACKGROUND

ADMINISTRATION
COMMENTS ONLY

A. Name of proposed project, if applicable:
City of Snohomish Everett Conveyance Project

B. Name, address and telephone number of property owner(s):
City of Snohomish

C. Name, address and telephone number of representative(s) [contractor, architect, etc.]:
Steve Schuller
City Engineer
Snohomish, WA 98290
(360) 282-3194
Schuller@ci.snohomish.wa.us

D. Date checklist prepared:
October 2011

E. Agency requesting checklist:
City of Snohomish

F. Proposed timing or schedule (including phasing, if applicable):
Proposed timing for construction to begin is anticipated in 2014 and construction would be completed prior to the 2016 National Pollutant Discharge Elimination System (NPDES) permit renewal.

G. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
None

H. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
Critical Areas Report and Mitigation Plan
Wetlands and Other Waters Delineation Report
Cultural Resources Report
Biological Assessment
Geotechnical Report

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

State Revolving Funds (SRF) will be used to pay for the project. SRF funds are used to pay for water pollution control projects such as sanitary sewer and surface water management projects. Eligible projects include secondary sewer treatment facilities, stormwater management projects, and other water pollution control projects. To qualify for the SRF for construction financing, the City must have approval of the following:

- **Facility Plan**
- **State Environmental Review Process (SERP) Compliance**

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

The following approvals and permits are expected for the project:

Federal

- Section 404 Clean Water Act (Issued by US Army Corps)
- Section 10 Work in Navigable Waters (Issued by US Army Corps)
- Section 401 Water Quality Certification (Issued by Ecology)
- Coastal Zone Management Consistency (Issued by Ecology)

State

- Hydraulic Project Approval (HPA) (Issued by Washington Department of Fish and Wildlife)
- Aquatic Use Authorization (Issued by Washington Department of Natural Resources)
- NPDES Construction Stormwater General Permit (Issued by Ecology)

Local

City of Snohomish

- Critical Areas Compliance
- Design Review
- Shoreline Management Substantial Development Permit
- Building Permit
- Clearing and Grading Permit

City of Everett

- Critical Areas Compliance
- Shoreline Management Substantial Development Permit
- Clearing and Grading Permit
- Right-of-Way Franchise

Snohomish County

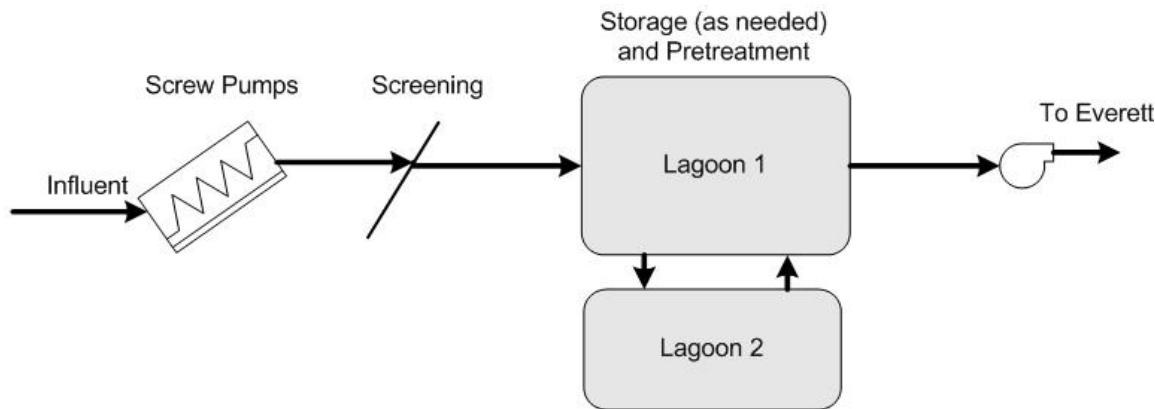
- Critical Areas Compliance
- Shoreline Management Substantial Development Permit
- County Land Disturbing Activity Permit
- Right-of-Way Franchise
- Right-of-Way Construction Permit

Other

- BNSF Railway crossing
- Power line crossing
- Gas Line Crossing
- Flood Control District Approval

K. Give a 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 which ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.)

The Everett Conveyance Project will convey wastewater from the existing Snohomish wastewater treatment plant (WWTP) located at Slough Road and State Route 9 to the City of Everett's South End Interceptor (SEI), a distance of about 26,300 feet (5 miles). The Snohomish WWTP will not be decommissioned and components of the facility would remain operational. The project includes a corridor along the Snohomish River between the cities of Snohomish and Everett. Part of this corridor is in unincorporated Snohomish County. Exhibit 1-1 illustrates the proposed project flow.

EXHIBIT 1-1
Everett Conveyance Project Flow Schematic**Proposed Project (South Alignment)**

The South Alignment is primarily located on the south side of the Snohomish River and south of the Burlington Northern and Puget Sound Energy Rights-of-Way. The force main would exit the WWTP to the west and follow the access road to the plant's former 30-acre lagoon, where it would follow the lagoon's northern boundary within the existing berm/access road. At the northwestern corner of the lagoon, the force main would angle southwest and cross under the Snohomish River near river mile 12. The pipe would be bored underneath the river using horizontal directional drilling (HDD). The river crossing would be about 1,000 feet long. After crossing the river, the force main would follow Lowell-Snohomish River Road to the northwesterly and then would cross under the roadway and then under the BNSF railroad tracks. The BNSF railroad tracks would be crossed with the jack-and-bore method. The force main would then cross the PSE right-of-way to private property just south of the PSE right-of-way. Turning west, the pipe would parallel the railroad tracks and PSE power lines toward the City of Everett.

Available geotechnical information indicates that there are very wet ground conditions in the vicinity of the Marshland Canal. Therefore, once the pipe reaches this area, HDD trenchless construction may be used for as much as 3,000 feet and would cross under the Marshland Canal. The force main alignment would then head north and cross the BNSF railroad tracks a second time via a jack and bore until it reached Lowell-Snohomish River Road inside the Everett city limits. From there, the pipe would follow the north side of the Lowell-Snohomish Road to the City of Everett SEI tie-in.

The following describes the recommended Everett Conveyance Project alternative, including the pipeline to Everett, pump station, and modifications required at the Everett Water Pollution Control Facility (WPCF) and existing Snohomish WWTP.

Pipeline

The force main to Everett will be about 26,300 feet long and would include two major water body crossings and two BNSF railroad crossings. Most of the alignment will be on private property south of Lowell-Snohomish River Road and the BNSF railroad tracks. The force main will be about 20-inch-diameter PVC pipe installed using open trench methods except for four trenchless segments described below.

The preliminary design concept for the Snohomish River crossing consists of a 16-inch fusible PVC pipe in a 24-inch steel casing installed by HDD below the river bed. The smaller pipe size

would help ensure that solids in the wastewater passing through the pipe do not settle out in this section. HDD would also be used to cross the Marshland Canal and surrounding wetland area. Numerous other, smaller water crossings consisting of drainage ditches or minor creeks will also be required along the alignment. These crossings will be constructed using open trench methods as described below.

The jack-and-bore method will be used for the two BNSF railroad tracks crossings. Pipe design and installation under the railroad right-of-way will comply with the railroad's standard specifications and utility accommodation policy. The jack and bore will consist of a steel casing with a PVC carrier pipe, with the casing extending from right-of-way boundary to right-of-way boundary. Jacking pits will be located a minimum of 30 feet from the centerline of the track, and pipes will be located at least 50 feet from the end of any railroad bridge or centerline of any culvert beneath the railroad.

In locations where the force main is installed by open trenching, the minimum cover over the pipe will generally be 3 feet. At locations where the pipe crosses drainage ditches, the preliminary design concept includes a culvert, which will be installed in the ditch above where the force main crosses. The ditches are occasionally cleaned and the culvert will minimize the chance of damage to the force main during the cleaning process.

Force main appurtenances include air and vacuum release valves at each high point in the profile and isolation valves located at about 5,000-foot intervals. The force main profile was selected to avoid high points (and air and vacuum release valves) to the maximum extent practical in areas where the valve chamber would interfere with agricultural land uses. The air and vacuum release valves will be designed with the air inlet and outlet above the flood elevation. The isolation valves will allow sections of the pipe to be hydrostatically tested to ensure the integrity of the joints following installation. The isolation valves will also allow portions of the line to be shut down for future maintenance, if required.

Pump Station

A new pump station located at the existing Snohomish WWTP will pump wastewater to Everett's SEI. The pump station will be a wet pit/dry pit facility. Wastewater will enter the wetwell, while the pumps and motors will be located in the dry chamber. Two duty sets of two pumps in series will be used, and another set of pumps will be used for standby, for a total of six pumps. The pumps will be nonclog centrifugal pumps, which are well-suited to handle raw sewage and high flows and heads. Based on available and projected plant flow data, the pumps will need to handle a wide range of flow and pressure.

The pump station will have a footprint of about 3,000 square feet and will be located west of the existing WWTP facilities, in the old lagoon. This location will take advantage of gravity flow from the headworks and Lagoon 1 to the pump station wetwell. Filling of the old lagoon will be needed to support the pump station. In addition, the pump station will be supported by auger-driven piles to prevent settling and hydraulic uplift. The pump station will have a dedicated backup generator and a new, separate power feed.

Treatment Plant Modifications

This section describes new and modified facilities at the Everett WPCF and existing Snohomish WWTP in association with the pipeline to Everett.

Everett WPCF

The Everett WPCF could handle initial Snohomish flows and wasteloads but would require three major capacity expansions by 2030. The first two Everett WPCF expansions are needed regardless of whether Snohomish sends its wastewater to Everett or not. The first expansion is additional aeration capacity. The second expansion would be needed 1 year sooner with Snohomish flows and loads and would include a third trickling filter and solids contact basin,

additional secondary clarifier, gravity belt thickener, and digesters. The third Everett WPCF expansion would involve adding a fourth trickling filter and solids contact basin. The timing and capacity of these expansions is based on the City of Everett's projected base and industrial growth and projected Snohomish flows and raw wasteloads. This evaluation did not consider treating Snohomish wastewater before entering the Everett WPCF.

If Snohomish did not transfer flows to Everett, then these upgrades would otherwise have to be constructed by 2015, and a second trickling filter and solids contact basin expansion would be needed by 2027, to meet City of Everett needs. If the Everett WPCF treats flows from Snohomish, then these second-phase improvements would likely be required around 2024, depending on growth.

Snohomish WWTP

Wastewater will continue to enter the Snohomish WWTP prior to transfer to Everett. The principal change to the WWTP involves modification of two of the four lagoons (Lagoons 1 and 2) for flow equalization and the decommissioning of the two other lagoons (Lagoons 3 and 4). The preliminary storage design concept is to use Lagoons 1 and 2 for storage when influent flow exceeds the Everett flow limit. To prevent liner uplift, the minimum Lagoon 1 water surface elevation would be set at elevation 23 feet, one foot less than the 10-year flood elevation. Lagoon 2 would be filled with fill material to elevation 23 feet and relined. During periods of flow storage, wastewater would fill Lagoon 1 first before overflowing via the existing spillway to Lagoon 2. When storage is no longer needed, water from Lagoon 2 would drain by gravity back to Lagoon 1. The level in Lagoon 1 would be lowered temporarily (as allowed by the level of the Snohomish River) to allow gravity draining of Lagoon 2. Lagoons 3 and 4 will not be needed and will be drained and cleaned. The liners will be breached to avoid damage from hydraulic uplift. Decommissioning Lagoons 3 and 4 in this manner is cost-effective and allows flexibility for future use, should they be required.

Square footage of buildings:

Pump station would be about 3,000 square feet.

Square footage of parking areas:

Not applicable. There are no new parking areas associated with the proposed project.

Number of parking spaces:

Not applicable. There are no new parking spaces associated with the proposed project.

L. Location of the proposal including street address (if any) and legal description (including section, township and range). Give sufficient information for a person to understand the precise location of your proposed project. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). (You are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.)

The proposed project would be about 26,300 feet (5 miles) long and the sewer force main would travel through the cities of Snohomish and Everett and unincorporated Snohomish County (about 3,000 feet within the City of Everett, 2,000 feet within City of Snohomish, and 21,300 feet within unincorporated Snohomish County). The proposed project is located within Sections 4, 5, 9, 10, 13, 14, and 15, Township 28N, and Range 5E.

II. ENVIRONMENTAL ELEMENTS

A. EARTH

1. General description of the site (circle one): flat; rolling hilly; steep slopes; mountainous; other (explain):

Flat – the proposed project is adjacent to the Snohomish River and generally located within the floodplains associated with the river.

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

There are no steep slopes located in the project area. The proposed project is located in close proximity to the Snohomish River. The changes in elevation are gradual (less than 15 feet total elevation difference) along most of the route (about 5 miles in distance).

3. What general types of soils are found on the site? (For example: clay; sand; gravel; peat; muck.)

Based upon the soils information provided by the United States Department of Agriculture National Resources Conservation Service (USDA NRCS), the soils in the area consist of: Puget Silty Clay Loam, Puyallup Fine Sandy Loam, Snohomish Silt Loam, Mukilteo Muck, and Terric Medisaprists.

All of the soils identified above are considered Prime Farmland. Except for Puyallup Fine Sandy Loam, all others soils are only considered Prime Farmland if drained and/or protected from flooding or not frequently flooded during the growing season.

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

There are no indications of unstable soils in the project area.

5. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Excavation would be required for the sewer force main. A trench for the force main would be excavated about 4 to 5 feet wide and up to a maximum depth up to 8 to 10 feet. The majority of the sewer force main would be located about 3 feet beneath the existing surface. Bedding material, likely gravel or pea gravel, would be placed in the trench prior to the installation of the sewer force main. Bedding materials would be used for about 21,000 feet of the 26,300 length and the bedding material would be about 0.5 feet thick. With an average width about 4 feet, about 42,000 cubic feet (1,555 cubic yards) of bedding material would be required for the proposed project. In addition, to the bedding material granular material (i.e., sand) will be backfilled over the bedding material and sewer force main wherever trenching occurs. Sand would be placed for the same distance and width as the bedding material will cover the sewer force main by at least 1 foot. About 84,000 cubic feet (3,110 cubic yards) of sand would be required for the proposed project. Excavated soils no longer required would be used as fill material for pump station, used as fill material for the two lagoons that will be abandoned, and/or disposed of at a permitted location.

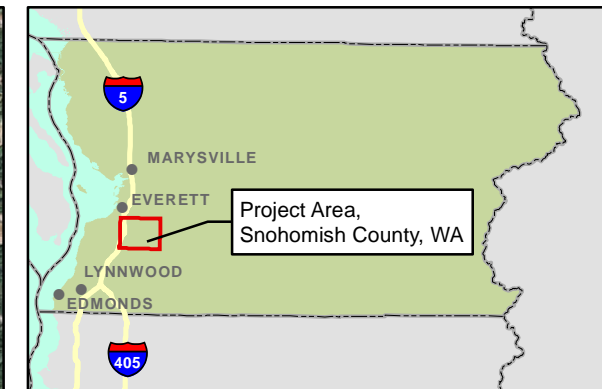
Grading and fill would be required for the construction of the pump station. About 12,000 cubic yards of fill material will be required for the pump station. Any suitable fill material from the excavation of the trenches will be used as fill material for the pump station location and any additional fill material will come from a permitted off site borrow location.

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

Soils exposed during construction are subject to erosion. Erosion could occur if any of the excavated soil is stockpiled and other construction activities associated grading could also result in erosion.

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

About 3,000 square foot of new impervious surface, associated with the pump station building, would be created within the existing City of Snohomish WWTP.



- Force Main
- +— BNSF Railway
- City Boundary

Everett and Snohomish, WA 7.5' USGS Quads
 Township 28 N Range 5 E
 Sections 4, 5, 9, 10, 13, 14, and 15

Source: Color Aerial; National Agriculture Imagery Program (NAIP), 2006.

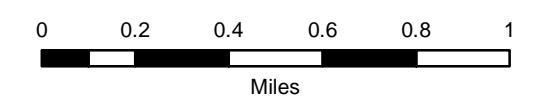


FIGURE 1
Vicinity Map
 City of Snohomish Everett Conveyance Project

8. Proposed measures to reduce or control erosion, or other impacts to the earth, if any?

Proposed measures to reduce or control erosion during the construction phase will include the following:

- **Covering piles of exposed soils during wet periods**
- **Silt fences**
- **Design and implementation of a temporary erosion and sediment control plan**

Other best management practices will be incorporated in accordance with applicable development codes including the Stormwater Pollution Prevention Plan (SWPPP) that will be prepared prior to construction of the proposed project.

No measures would be required during operation.

B. AIR

1. What type of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities, if known.

The use of construction equipment will generate temporary dust related to excavation and grading operations. Construction activities will require diesel and gasoline internal combustion engine powered construction equipment. Construction equipment would emit byproducts from combustion.

During operation, there are emissions associated with the operation of the pump station. Measures are included in the design to minimize odors and there are no public areas or residences in close proximity that could be affected by any odors. The nearest residences are located about 700 feet northeast of the proposed pump station.

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

No off-site emissions or odors are associated with the proposed project.

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

During construction, the following measures are proposed to reduce or control emissions and other impacts to air:

- **Construction equipment equipped with required functioning emission control**
- **Cover loads on trucks, as needed**
- **Wet any exposed soils to minimize dust**
- **Use of wheel washing for trucks leaving the construction site, as needed**

During operation no measures are required.

C. WATER

1. Surface:

a. 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.

The Snohomish River is the primary surface water body in the area. The river flows to Puget Sound. The Marshland Canal flows into the Snohomish River and there are other unnamed seasonal streams and ditches in the project area. The proposed project will need to cross under the Snohomish River once and the Marshland Canal once.

The project area also contains a number of wetlands that are both within and immediately adjacent to the project area. The majority of the wetlands are located within Snohomish County and the existing uses of the wetlands are associated with agricultural related uses which are allowed in all areas based upon the city and county codes. The wetlands within Snohomish County are all rated as Category IV wetlands and have a 40 foot buffer. Wetlands within the City of Snohomish are located within the

abandoned WWTP lagoon are rated Category III and have 100. There is a wetland north of the WWTP and adjacent to the access road, but would not be impacted by the proposed project.

b. 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.

The proposed project alignment will be under the Snohomish River and the Marshland Canal, but any construction activity associated with the HDD pits would be at least 200 feet from the OHWM of these two water bodies. For both water body crossings, there would two pits, one on each side of water bodies, to allow the installation of the sewer force main. Within the City of Snohomish there would be some work within 200 feet of the OHWM of the Snohomish River. The work includes the installation of a mud sump location and some trenching for the sewer force.

Within the City of Snohomish, there would be some temporary impacts to the wetland buffer associated with the wetland to the north of the existing WWTP due to construction of the pump station and the HDD pit located on the north side of the Snohomish River. After construction the area would be restored consistent with the requirements of City of Snohomish Code Chapter 14.255 (Critical Areas) and 14.260 (Wetlands). In addition, construction of the pump station within the City of Snohomish would require the filling of a portion of a wetland that is located within the abandoned WWTP lagoon. Overall, the abandoned lagoon is about 1.3 million square feet (30 acres). Mitigation for these permanent impacts would be consistent with the mitigation requirements in Chapter 14.255 and 14.260.

Within Snohomish County the wetland impacts are all temporary and the wetlands are located within areas associated with active agricultural uses. Because these areas are associated with active agricultural uses only restoration to existing conditions is required. The restoration would include ensuring the top layer of soil will be removed and replaced after the installation of the sewer force main to maintain the proper soil conditions of the wetlands.

Within the City of Everett no impacts to wetlands or wetland buffer are anticipated.

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

No fill or dredge material will be placed in or removed from any of the surface waters.

Within the City of Snohomish, construction of the pump station would require that about 20,000 square feet (0.46 acres) of fill material be placed within the abandoned lagoon wetland. There is enough area within the lagoon area to mitigate the impacts to the wetland. The proposed project will comply with the applicable City of Snohomish code to mitigate these impacts (Chapter 14.255 and 14.260). Fill material used to construct the pump station would be come from an offsite and permitted site.

Within Snohomish County, wetlands will be temporarily impacted during construction and these areas would be restored after construction consistent with County requirements. The wetlands that will be impacted are located in areas currently used for agricultural activities.

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

No surface water withdrawals or diversions are required. The proposed project would use HDD under the Snohomish River and the Marshland Canal to avoid these waters.

Construction activities would occur during the summer months in the areas associated with wetlands which minimizes any impacts and during the summer months a majority of these areas are related to agricultural use and there are no surface or temporary standing waters present.

There are existing drain tiles in the project area used to support agricultural activities. In order to minimize the depth of the force main in fields where drain tiles exist, the preliminary design concept includes an interceptor drain installed parallel to the force main. The interceptor drain will collect water from the existing drain tiles and convey it to the adjacent open ditch at specific locations. In these specific locations, the force main will be installed at a depth as required to allow the interceptor drain to pass over the force main. The locations of the interceptor drain and the associated outlets to the ditch will be verified during final design.

e. Does the proposal lie within any 100-year flood plain? If so, note location on the site plan.

The portions of the proposed project located within the City of Everett and Snohomish County are located in Zone AE (1 percent annual chance of flood) as designated by the Federal Emergency Management Administration (FEMA) (FEMA 2005). There are no above ground structures associated with the proposed project within the Zone AE that would affect the floodplain. The proposed project is located beneath the surface and would be constructed during the dry summer months.

The portions proposed project within the existing WWTP are located in Zone X (0.2 percent annual chance of flood) as designated by FEMA. The proposed pump station would not require any Elevation Certification or need to meet any of the City of Snohomish Code requirements because Zone X is outside of the 100-year floodplain.

f. Does the proposal involve any discharges of waste material to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No discharges of water materials to surface waters will occur.

2. Ground:

a. Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose and approximate quantities, if known.

During construction ground water will need to be withdrawn in certain areas to dewater the trench and allow safe installation of the sewer force main. Dewatering would be required because of the high water table that is expected along the pipeline alignment.

b. 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 proposed project does not result in any waste material being discharged into the ground.

3. Water Runoff (including storm water):

a. Describe the source of runoff (including storm water) and method of collection and disposal, if any (including quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

During construction, the quantity and quality of stormwater runoff would remain unchanged. Stormwater runoff is expected to be minimal and would not exceed threshold criteria for turbidity during construction. Construction activities are expected to occur during the dryer summer months. This is in large measure due to the extremely flat topography along the proposed alignment; that minimizes erosion potential.

The majority of the proposed project is located beneath the surface and the surface would be restored to preconstruction conditions and not create any new sources of runoff. The only area of new impervious surface is associated with the pump station within the existing City of Snohomish WWTP. The pump station would create about 3,000 square feet of new impervious surface.

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

Waste materials would not enter ground or surface waters unless the sewer force main leaked. Design of the proposed project includes the implementation of design measures at the pump station to automatically shut down the pump station should the pressure in the sewer force main decrease below a certain level.

4. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any.

A SWPPP will be prepared consistent with the latest Ecology guidelines prior to construction. The SWPPP will identify BMPs to minimize or prevent the discharge of pollutants to waters of the state. A temporary erosion and sediment control (TESC) plan, which could include measures such as filter fabric fence to control surface and ground water, will also be prepared.

D. PLANTS

a. Underline types of vegetation found on the site:

deciduous tree:

alder, maple, aspen,
other: poplar

wet soil plants:

cattail, buttercup,
bulrush, skunk cabbage,
other:

evergreen tree:

fir, cedar, pine,
other: madrona

water plants:

water lily, eelgrass, milfoil,
other:

shrubs

pasture

grass

crop or grain

other types of vegetation:

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

Construction would require the removal of all vegetation along the open trench portion of the project. After construction the impacted area would be restored consistent with applicable City or County requirements.

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

No endangered plant species are known to exist on or near the site.

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

The proposed project would be located almost entirely beneath the surface and the area will be restored after construction consistent with the code requirements for the cities of Snohomish and Everett and Snohomish County.

E. ANIMALS/WILDLIFE

1. Underline any birds and animals that have been observed on or near the site or are known to be on or near the site:

birds:

heron, eagle, songbirds,
other: crow, seagull, starling, robin, hawks

mammals:

deer, bear, elk, beavers,
other: coyote, deer mouse, moles

fish:

bass, salmon, trout, herring, shellfish,
other:

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

Chinook, Steelhead, and Bull Trout are located in the Snohomish River.

3. Is the site part of a migrational route? If so, explain.

The Snohomish River is part of a migration route for Chinook, Steelhead, and Bull Trout. The Puget Sound also provides habitat for killer whales. The entire region is within the Pacific Flyway for migratory birds.

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

Because of the construction techniques, including no in-water work and the small amount of earth that is expected to be exposed, the risk of any sedimentation impacts is very low. The project will be required to comply with all the measures identified as part of the federal, state, and local permitting process and measures that will be implemented to minimize impacts on wildlife include the following:

- **Work window timing – seasonal restrictions could be implemented; however, since no in-water work will be conducted with the use of trenchless methods, trenched crossing over culverts, a variance may be granted to increase the flexibility in construction timing.**
- **Water quality protection**
- **Habitat protection – any riparian or upland area disturbed during construction will be restored where practicable**

F. ENERGY AND NATURAL RESOURCES

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

Electricity will be used to operate the pump station. Because the majority of the other uses at the City of Snohomish WWTP will no longer be required no additional energy is expected to be required for project operation.

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

No. The majority of the proposed project will be located underground and will not affect the potential use of solar energy.

3. 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:

None.

G. ENVIRONMENTAL HEALTH

1. 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.

During construction, there is the potential for leaking construction equipment which could result in small petroleum spills if not detected.

During operation, there is a remote chance for wastewater leakage should the sewer force main rupture or break.

a. Describe special emergency services that might be required.

No special emergency services are required during construction or operation of the proposed project.

b. Proposed measures to reduce or control environmental health hazards, if any:

In the case of a leaking or rupture of the sewer force main the following measures would be implemented:

- **To minimize the potential for rupture as a result of power outages the pump station will have a dedicated backup generator and separate power feed.**
- **The force main crosses the Clearview water pipeline and at this location, the preliminary design concept includes a steel casing around the force main in accordance with Washington State Department of Health criteria. In the unlikely event that a leak occurs in the force main, the casing will direct the leakage away from the Clearview pipeline. A 2-**

inch-thick styrofoam-type material will be placed between the casing and the Clearview pipeline to minimize the possibility of damage to the pipelines resulting from settlement.

2. Noise

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

There are no existing noise sources that would affect the proposed project.

b. 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.

During construction there would be temporary noise associated with construction equipment. However, the proposed project is located away from residential structures and construction activities would occur during the daylight hours.

There are no long term noise impacts during operation of the pump station and the sewer force main.

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

Construction equipment would be equipped with mufflers that comply with state and local noise restrictions.

H. LAND AND SHORELINE USE

1. What is the current use of the site and adjacent properties?

Current uses in the project area and adjacent properties are as follows:

***City of Snohomish* – the current use is the existing City of Snohomish WWTP and the former lagoons and the adjacent properties include a wetland**

***City of Everett* – the current use is agriculture and the adjacent uses include park and vacant property**

***Snohomish County* – the current use is agriculture and the adjacent uses include agriculture and vacant property**

2. Has the site been used for agriculture? If so, describe.

Portions of the project area in the City of Everett and unincorporated Snohomish County are currently used for agriculture.

3. Describe any structures on the site.

There only structures in close proximity to the project are the buildings associated with the existing City of Snohomish WWTP and the BNSF railway trestles. There are no residential structures in close proximity to the project.

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

No structures will be demolished for the proposed project.

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

Current zoning in the three jurisdictions is:

***City of Snohomish* – Public**

***City of Everett* – Park and A-1 (Agriculture) north of Lowell Snohomish River Road and Special Development District south of Lowell Snohomish River Road**

***Snohomish County* - A-10 Agriculture**

6. What is the current Comprehensive Plan designation of the site?

Current comprehensive plan designation in the three jurisdictions is as follows:

***City of Snohomish* – Industry**

***City of Everett* – Parks/Open Space and Agriculture**

Snohomish County - Riverway Commercial Farmland (RCF)

7. If applicable, what is the current Shoreline Master Program designation of the site?

Current shoreline master program designation in the three jurisdictions is as follows:

City of Snohomish – Urban Shoreline Environment

City of Everett – Urban Conservancy Recreation and Urban Conservancy Agriculture

Snohomish County – Rural Shoreline Environment. Snohomish County is currently in the process of updating their Shoreline Management Program and the updated information identifies the shoreline in the project area as Resource.

8. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

Environmentally sensitive areas in the three jurisdictions are as follows:

City of Snohomish – wetland.

City of Everett – wetlands and flood hazard areas

Snohomish County - wetlands and flood hazard areas

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

The proposed project includes a new pump station at the City of Snohomish WWTP that City employees would staff.

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

The proposed project would not result in the displacement of any people.

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

There are no displacement impacts, therefore no mitigation is required.

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

None are required. The proposed project does not impact the existing or future land uses in the project area. The proposed project does allow the City of Snohomish to accommodate planned growth. The project area will be restored after construction and existing agricultural uses in the City of Everett and Snohomish County will be allowed to continue.

I. HOUSING

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

Not applicable. The proposed project does not provide any housing units.

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

No housing units would be eliminated.

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

There are no housing impacts, and therefore no mitigation measures are required.

J. AESTHETICS

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

The pump station at the existing WWTP would be about 15 feet tall and the exterior building material would be masonry.

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

The proposed project would not alter or obstructed any views. The proposed project is located underground and pump station would be located within the existing City of Snohomish WWTP. The construction materials used for the pump station will be consistent with any applicable City of Snohomish building requirements and the pump station would be subject to a design review.

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

There are no aesthetic impacts, and therefore no mitigation measures are required.

K. LIGHT AND GLARE

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

The proposed project would not produce any light or glare.

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

No, the proposed project does not produce any light or glare.

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

The majority of the proposed project is located beneath the existing surface and would not be affected by light or glare.

4. Proposed measure(s) to reduce or control light and glare impacts, if any:

There are not light or glare impacts, and therefore no mitigation measures are required.

L. RECREATION

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

The following designated and information recreational opportunities are in the project area:

- **Snohomish River –provides opportunities for fishing and boating**
- **Lowell Snohomish River Road – designated bicycle route for Snohomish County**
- **Rotary Park , City of Everett**
- **Some private property owners where the proposed project would be located allow hunting on their property during designated seasons**

There is also a proposed Snohomish County park site located along the east end of the project area.

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

During construction, bicyclists may not be able to ride along the portions of Lowell Snohomish River Road within the City of Everett and access to Rotary Park in the City of Everett could be affected during construction of the pipe on the north side of Lowell Snohomish Road.

Depending on the construction period, the agricultural properties that allow hunting during the designated hunting season could be impacted. However, hunting is not expected to occur during the dry summer season and hunting is only allowed with permission from the property owners.

During operation, the proposed project would not displace any existing recreational uses.

Construction of the proposed project would not affect the future park site in Snohomish County or within the City of Snohomish.

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

During construction the following measures could be implemented:

- **Maintain bicycle access on one side of the roadway during construction.**
- **Minimize construction during the weekend when the park and bicyclists use would increase.**
- **If possible, avoid construction during hunting season.**

M. HISTORIC AND CULTURAL PRESERVATION

1. Are there any places or objects listed on, or proposed for, national, state or local preservation registers known to be on or next to the site? If so, generally describe.

There are no known sites on or immediately adjacent to the proposed project based upon archaeological field work conducted and background research at the Washington State Department of Archaeology and Historic Preservation. There are known sites in the surrounding area. Subsurface testing was conducted to determine if any sites are within the project area. The testing consisted of 29 shovel probes and nothing was found.

2. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site:

There are none known to be in or next to the proposed project and no sites were identified in close proximity to the proposed project.

3. Proposed measure to reduce or control impacts, if any:

During construction a trained archaeologist would be on site to monitor the construction activities.

N. TRANSPORTATION

1. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The City of Snohomish WWTP is accessed via Slough Road. The sewer force main would be constructed primarily within agricultural land with no direct street access. Within Snohomish County and the City of Everett, Lowell Snohomish River Road is the primary access to the proposed project area. There are a number of existing private driveways that provide access to the project area west of Lowell Snohomish River Road including access under the BNSF railroad.

2. Is the site currently served by public transportation? If not, what is the approximate distance to the nearest transit stop?

The site is not served by public transit. The closest transit stops are within the downtown area of the City of Snohomish and the City of Everett.

3. How many parking spaces would the completed project have? How many would the project eliminate?

The proposed project does not include or eliminate parking spaces.

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

No new roads or road improvements will be required.

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

The proposed project construction and operation is within the immediate vicinity of rail transportation. The proposed sewer force main would cross underneath the BNSF Railroad in two locations and would be adjacent to the railroad corridor. Construction and operation would not interfere with the operation of the railroad.

The proposed project also crosses the Snohomish River at about river mile 12. Construction will incorporate HDD and will not interfere with any use of the river by boaters.

The proposed project is not located in close proximity to any airports. The nearest airport is Harvey Airfield about 3,500 feet (0.7 miles) east of the Snohomish WWTP.

6. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

No new vehicle trips would be generated by the operation of the proposed project.

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

During construction, vehicles would access the site via an existing driveway located along Lowell Snohomish River Road. Access to the and from the site may require a flagger, but the number of vehicles that would enter and exit the site would not require any additional mitigation measures.

Operation of the proposed project does not result in any transportation impacts; therefore no mitigation measures are required.

O. PUBLIC SERVICES

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

The proposed project would not result in an increased need for public services. The proposed project would allow for the planned growth to occur within the City of Snohomish.

2. Proposed measures to reduce or control impacts on public services, if any:

There are no public service impacts, and therefore no mitigation measures are required.

P. UTILITIES

1. Underline utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other (describe):

Utilities are only currently available at the existing WWTP in the City of Snohomish. The majority of the proposed project is located within the unincorporated Snohomish County in areas currently used for agricultural uses. Major utility crossings include the Clearview water pipeline and British Petroleum's Olympic gas pipeline. Power lines for Puget Sound Energy, Bonneville Power Administration, and Snohomish Public Utility District No. 1 will also need to be crossed and their poles or structures avoided. Much of the alignment is in property used for farming where private drain tiles and irrigation lines will also need to be avoided.

2. 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 that might be needed.

There are no new utilities that would be required for the proposed project.

III. SIGNATURE

I hereby certify under penalty of perjury of the Laws of the State of Washington that 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

Type or Print Name

Title

Submittal Date

ADMINISTRATION ONLY

Administrative Review By: _____

Title: _____

Date: _____