

Department of Natural Resources and Parks

• Wastewater Treatment Division Community Services and Environmental Planning
• 201 South Jackson Street, MS KSC-NR-0505, Seattle, WA 98104-3855
• FAX 206-684-1278

DETERMINATION OF NONSIGNIFICANCE (DNS)

TITLE OF PROPOSAL: West Point Treatment Plant C1/C2 Reservoir Modifications Project

DESCRIPTION OF PROPOSAL: The King County Wastewater Treatment Division proposes (WTD) to modify an existing belowground water reservoir located in Discovery Park and serving WTD's West Point Treatment Plant. The existing below-ground structure is divided into three parts: one potable water tank, one service water tank, and a mechanical room. The project will remove and replace the existing above-ground access, install a new access hatch and roof, and install new above-ground vents. The project will also install an approximately 15-inch diameter 500-foot long overflow waterline to avoid potential overflows inside the underground tank's mechanical room and potential mixing potable City water with non-potable service water. The new overflow waterline will daylight in Discovery Park, south and east of the existing reservoir, through an approximately 16-inch diameter diffuser to disperse the flow before infiltrating into the ground. Disturbed areas will be restored and revegetated, including replanting trees removed for construction, at project completion.

LOCATION OF PROPOSAL, INCLUDING STREET ADDRESS, IF ANY: The project is located in Discovery Park, near the Loop Trail, in Seattle, (Section 16 of Township 25 North, Range 3 East) Washington. The project site is accessed from Discovery Park Boulevard, to the north.

Responsible Official:

Position/Title:

Address:

Date: 12-19-18

Proponent and Lead Agency:

Contact Person:

Mark Isaacson

Director, King County Wastewater Treatment Division

201 South Jackson Street, MS KSC-NR-0501 Seattle, WA 98104-3855

Signature:

King County Department of Natural Resources and Parks Wastewater Treatment Division

HillaryJones, Environmental Planner King County Wastewater Treatment Division 201 South Jackson Street, MS KSC-NR-0505 Seattle, WA 98104 phone: 206-477-5504; e-mail: hillary.jones@kingcounty.gov

Issue Date:

December 20, 2018

The State Environmental Policy Act (SEPA) lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

This Determination of Nonsignificance is issued under WAC 197-11-340 (2); the lead agency will not act on this proposal for 17 days from the issue date. **Comments must be submitted by January 7, 2019.** Submit comments to Katherine Fischer, Supervisor, Environmental Services Unit, King County Wastewater Treatment Division, 201 South Jackson Street, MS KSC-NR-0505, Seattle, WA 98104-3855.

Written appeals of this threshold determination must be received by the SEPA Responsible Official at the above address no later than 5pm, January 7, 2019 and must be accompanied by at \$250 fee. The appeal must follow the procedure established in King County Public Rule PUT 7-4-1. The public rule may be viewed at <u>http://www.kingcounty.gov/operations/policies/rules/utilities/put741pr.aspx</u>, or contact Hillary Jones at 206-477-5504 or <u>hillary.jones@kingcounty.gov</u> to obtain a copy of the rule.

[Statutory authority: RCW 43.21C.110. 84-05-020 (Order DE 83-39), §197-11-970, filed 2/10/84, effective 4/4/84.]

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of proposed project, if applicable:

West Point Treatment Plant C1/C2 Reservoir Modifications Project

2. Name of applicant:

King County Department of Natural Resources and Parks, Wastewater Treatment Division

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

King County Department of Natural Resources and Parks Wastewater Treatment Division 201 South Jackson Seattle, WA 98104

Contact: Hillary Jones, Environmental Planner Phone: (206) 477-5504 Email: <u>hillary.jones@kingcounty.gov</u>

4. Date checklist prepared: December 6, 2018

5. Agency requesting checklist:

King County Department of Natural Resources and Parks, Wastewater Treatment Division

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

Construction is anticipated to begin in the spring of 2019 and end in 2020.

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

No.

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

- Draft Geotechnical Considerations for Diffuser (McMillen Jacobs Associates 2016)
- Critical Areas Investigation, Tree Inventory/Protection Plan and Site Restoration Plan (Herrera Environmental Consultants 2018)
- Avian Survey (pending)

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.

In October 2018 the City of Seattle started construction of the Capehart Trail project in Discovery Park. The Capehart Trail intersects a portion of the proposed overflow waterline construction area. Any impacts to the Capehart Trail area will be restored at project completion. Coordination with the City of Seattle will be required during design and construction.

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

City of Seattle

- Land Use Permit
- Electrical permit
- Mechanical permit
- Construction (Building) permit
- Tree and vegetation removal permit

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 King County Wastewater Treatment Division (WTD) proposes to modify an existing belowground water reservoir located in Discovery Park and serving WTD's West Point Treatment Plant (WPTP). The existing reservoir was constructed in the mid-1960s as part of the original WPTP project. The reservoir is divided into two reinforced concrete water tanks, C1 and C2, and a mechanical room. C1 water is potable City water for human consumption. C2 water is non-potable City water used for services, not for human consumption. The conditions inside the reservoir no longer meet current source water protection standards as required by Seattle Public Utilities and per the Washington Administrative Code (WAC) 246-290.

The purpose of the project is to provide an efficient and safe way to perform annual inspection of the backflow prevention system (air gap), provide safe personnel access to the interior of each reservoir, and meet current source water protection standards.

Existing Conditions

The existing underground structure is accessed by an above-ground stairway enclosed by chain-link fencing and a gate. Other existing above-ground elements include reservoir vents, mechanical room air intake pipe, and 24-inch diameter manhole. The manhole provides the only direct access to the reservoir tanks.

The C1 tank has capacity for approximately 18,000 gallons of water; the C2 tank has capacity for approximately 170,000 gallons of water. In order to conduct required annual inspection of the reservoir, the C2 tank must first be drained, which limits the amount of water available to WPTP. Once the C2 reservoir is drained, the C1 reservoir can be accessed from the C2 tank through a 24-

inch space between the top of the tank wall and the roof. This space is only accessible by placing a ladder in the empty C2 tank, making staff access difficult and potentially unsafe.

An existing 8-inch water pipe from West Emerson Street in Seattle enters Discovery Park and runs to the reservoir, providing water to WPTP. The C1 water is separated from the C2 water by a below-grade air gap (backflow preventer) in the C1 tank. At the time of construction, the water service air gap met the requirements of backflow prevention. Under existing conditions, if the C1 tank reaches capacity, it overflows a concrete weir wall to the adjacent C2 tank. On a couple of occasions, the intake control valve stuck open, allowing the C1 water to mix with C2 water. These infrequent overflows also resulted in flooding of the mechanical room (approximately one overflow during the past 40 years).

Project Construction

The total project area is approximately 12,000 square feet. The project will isolate the C1 tank from the C2 tank and provide above-ground air gaps from each reservoir tank. Hatches will be installed to provide above-ground access to the reservoir tanks. A new overflow waterline will be installed to prevent flooding, which has historically occurred in the mechanical room when water overflows the C2 weir. Inflow for the C2 reservoir will be routed to the northwest corner to improve circulation and water quality.

The project will also remove and replace the existing above-ground enclosure, which currently provides access to an existing stairwell leading to the below-ground mechanical rooms. The existing enclosure is an approximately 15 foot long by 3 foot wide fully-enclosed chain link fence with a gate at the top of the stairwell. The existing access will be modified by removing the chain link fence and replace it with a new enclosure, access hatch, and roof. The modified access hatch will be approximately 8 feet long, 3 feet wide, and 6 feet tall at the highest point, to improve worker safety and ease of access to the underground reservoir. The remaining existing access area will be modified by installing a metal roof over the enclosed area, approximately 7 feet long by 3 feet wide.

Though overflows are anticipated to be infrequent, a new 15-inch diameter overflow waterline (likely HDPE pipe) will be installed at the southeast corner of the existing reservoir structure to ensure current water protection standards are met. The overflow waterline will run underground approximately 500 feet south and east through Discovery Park, where it will daylight at a new 16-inch diameter diffuser, where the water would be dispersed over ballast rock, or similar, at the end of the outfall and infiltrate into the surrounding soil (Figure 2). The overflow waterline is designed to accommodate a flow rate of 1,100 gallons per minute, for a total maximum discharge of approximately 4,400 cubic feet. Based on the site analysis, the ground near the diffuser has capacity to hold approximately 9,500 cubic feet. There is potential for the discharged water to pond temporarily to a depth of approximately 1.4 feet before infiltrating into the surrounding ground.

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 project is located in Discovery Park, Seattle, (Section 16 of Township 25 North, Range 3 East) Washington (Figure 1).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site_

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

The reservoir site is relatively flat; however, the surrounding area is categorized as steep slopes (SDCI GIS Web Map August 2017). The overflow waterline will daylight in a depression area in Discovery Park to the southeast of the reservoir.

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

The steepest slope is approximately 45 degrees in the site vicinity. The project site ranges from flat to slopes between 25 and 45 degrees, with some portions over 45 degrees. The ground is relatively flat north and east of the reservoir site.

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.

Soils on the site consist generally of advance outwash (Esperance Sand) over glaciolacustrine (Lawton Clay).

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

There are no unstable soils in the immediate vicinity of the project.

Portions of the surrounding bluffs are classified as steep slopes by the City of Seattle (Seattle Municipal Code 25.09), and as cliff/bluff habitat features made up of glacial till by the Washington Department of Fish and Wildlife. Landslides have historically occurred on the west side of Magnolia.

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.

Approximately 400 cubic yards of excavation will occur for the open-cut installation of the outfall waterline pipe and diffuser. The open-cut trench will be approximately 500 feet long and 2 feet

wide, with excavation up to approximately 16 feet deep for overflow waterline installation. The excavated soils will be used to backfill the open cut trench to the maximum extent possible. No other fill is anticipated for the project.

The temporary construction access road will be approximately 600 square feet (not more than 10 feet wide by 60 feet long). The proposed easement area for installation of the new overflow waterline is not more than 20 feet wide by approximately 500 feet long. Temporarily disturbed and graded areas will be restored to existing grade upon completion of the project.

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

Some erosion could occur during excavation and backfilling of the trench, and stockpiling of any soil during construction. Erosion control measures will be implemented to minimize this potential. See section B.1.h. below for typical Best Management Practices (BMPs) that can be utilized to minimize the potential for erosion.

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

Approximately 1% (less than 100 square feet) of the approximately 12,000 square foot site will be covered with impervious surface after construction. The outfall diffuser area will likely be surrounded by ballast rock, or similar, with some vegetation planting; otherwise, the modifications won't change the impervious surface.

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

Appropriate erosion and sediment control measures will be installed to minimize impacts to the earth from clearing, grading, or excavation activities.

Typical BMPs that may be utilized to minimize the potential for erosion include:

- Installation of filter fabric fences around disturbed areas;
- Installation of silt traps in storm drainage inlets;
- Covering soil stockpiles and exposed soils;
- Regular street cleaning for mud and dust control;
- Regular inspection of erosion and sediment control measures;
- Restoration of disturbed areas by repaying or replanting as soon as practical after construction is completed;
- Designate personnel to inspect and maintain temporary erosion and sediment control measures;
- Use appropriate means to minimize tracking of sediment onto public roadways by construction vehicles.

Temporary erosion and sediment control measures will be identified in the project's construction plans and specifications, and will be implemented as required by permitting jurisdictions.

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.

Construction of the proposed pipeline and upgrades may result in short term dust emissions from exposed soils, and fossil fuel emissions from the operation of construction equipment and vehicles. A King County Greenhouse Gas Emissions worksheet is attached.

Operation of the project is not anticipated to result in emissions to the air.

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:

Dust emission impacts associated with the construction of the proposed project are not anticipated to be significant. Construction contractors will comply with regulatory requirements and implement appropriate dust control measures, as necessary. Measures to minimize dust emissions from construction may include:

- Spraying exposed soils and soil storage areas with water during dry weather periods.
- Covering exposed earthen stockpiles and loads of material being transported to and from the site.

Vehicular emissions associated with construction of the project are anticipated to be short term in nature. Measures to minimize vehicular emissions will include:

- Requiring contractors to use best available emission control technologies (e.g., mufflers).
- Maintaining all vehicles in proper working condition.
- Minimizing vehicle and equipment idling.

3. Water

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

There are no surface waters in the immediate vicinity of the project area. Puget Sound is located approximately 600 feet to the west of the reservoir site and approximately 700 feet to the west of the outfall diffuser.

The entirety of Discovery Park is mapped by the Washington Department of Fish and Wildlife as Biodiversity Areas and Corridor, containing areas of wetlands on the bluff, and areas of estuarine and marine wetland to the west and south along Puget Sound. An area of freshwater forested/shrub wetland is mapped to the south of the reservoir site near Puget Sound. No wetlands are known to occur within the immediate vicinity of the project, and the closest mapped wetland is more than 400 feet to the north and east of the project site.

Herrera Environmental Consultants conducted a field investigation on June 14, 2018 to determine the presence of critical areas in the vicinity of the existing reservoir structure and the proposed overflow waterline and diffuser. The USACE Wetland Delineation Manual and Western Mountain Regional Supplement standards were used. Based on the field investigation, the project areas and immediately adjacent vicinity do not appear to contain wetlands.

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.

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.

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.

Groundwater will not be withdrawn from a well.

No groundwater withdrawals will occur once construction has been completed.

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.

No waste materials will be discharged into the ground from septic tanks or other sources. Small spills or leaks of motor oil, diesel fuel, or hydraulic fluid may occur during construction inadvertently. Section B.3.d. describes measures which may be taken to avoid and minimize potential for construction-related materials to enter the ground.

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.

The main source of runoff during and after construction would be from storm water. Rainfall is anticipated to infiltrate directly into the ground. Due to the surrounding impervious area, any changes to existing runoff flow would be negligible.

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

Runoff from construction could potentially contain small amounts of motor oil or fuel which could enter the ground. There are no surface waters in the immediate vicinity of the project. BMPs such as those described in Sections B.3.d and B.7.5 will be implemented to avoid and minimize the potential for waste materials to enter the ground.

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

No. Based on research done by the King County project engineer, the project is not anticipated to alter or affect drainage patterns in the vicinity.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Section B.1.h. discusses typical BMPs that will be used during construction to control erosion and sedimentation resulting from stormwater runoff. Additional construction BMPs that can be implemented to prevent the introduction of contaminants into surface water or groundwater during construction include:

- maintaining spill containment and clean up materials in areas where equipment fueling is conducted;
- refueling construction equipment and vehicles away from surface waters whenever practicable;
- containing equipment and vehicle wash water associated with construction and preventing it from draining into surface waters;
- storing fuels and other potential contaminants away from excavation and surface waters in secured containment areas;
- conducting regular inspections, maintenance and repairs on fuel hoses, hydraulically operated equipment, lubrication equipment, and chemical/petroleum storage containers; and
- establishing a communication protocol for the unlikely event of a spill.

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__ 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
- X_____ other types of vegetation

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

The below ground reservoir structure is an approximately 70-foot by 30-foot mowed grass area surrounded by blackberry bushes. No trees are proposed for removal in this area (See Figure 3A). Himalayan blackberry would be removed from the surrounding area as part of the restoration after the overflow waterline is installed.

Construction of the overflow waterline would result in removal of up to approximately thirty trees, including several dense thickets of Bitter Cherry (*Prunus emarginata*) and invasive Oneseed hawthorn (*Cratageus monogyna*). Grass and some shrubs would also be removed from the approximately 20-foot wide temporary construction easement and around the diffuser area (See Figure 3B).

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

No threatened or endangered species are known to be currently on or near the site.

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

The project area will be restored after installation of the overflow waterline. Herrera Environmental Consultants prepared tree and plant replacement plans, which were submitted to the City of Seattle for review and approval. The recommended planting plan includes a variety of native shrubs and trees. Exiting native trees will be removed and replanted wherever possible. Removal of invasive Himalayan blackberry will enhance native vegetation on the site.

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

Examples of dominant noxious weeds and invasive species in the vicinity of the site include Himalayan blackberry (*Rubus armeniacus*) and Oneseed hawthorn (*Crategus monogyna*).

5. Animals

a. <u>List</u> any birds and <u>other</u> animals which 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: California sea lion (*Zalophus californianus*) fish: bass, salmon, trout, herring, shellfish, other:

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

The entirety of Discovery Park is mapped by the Washington Department of Fish and Wildlife as Biodiversity Areas and Corridor, and may include nesting pileated woodpeckers (Hylatomus pileatus) and Bald eagles (Haliaeetus leucocephalus).

No threatened or endangered species or associated habitat areas have been documented in the immediate vicinity of the project area.

There are no known woodpeckers or Bald eagle nests in the project area. Dungeness crab are known to occur in Puget Sound to the west and south of the project area.

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

The project site is located within the Pacific Flyway, which is a flight corridor for migrating waterfowl and other avian fauna. The Pacific Flyway extends from Alaska south to Mexico and South America.

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

The construction work limits will be minimized to the extent possible to avoid impacts to trees in the project area. Areas disturbed by construction will be restored upon completion of project construction. Trees removed for construction are anticipated to be replanted at a 2:1 ratio as

required by Seattle Parks Department. While specific wildlife enhancement measures are not proposed, removal of invasive species and replanting of native trees and shrubs will enhance potential habitat in the area.

An avian survey is planned to be completed prior to vegetation removal for construction. Vegetation removal will be done in order to minimize or avoid impacts to potential nesting avian species, which may result in seasonal restrictions and/or monitoring by a professional wildlife biologist during construction activities.

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

No invasive animal species are known to be on or near the site.

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.

The existing structure uses electricity. The completed project will not result in additional energy needs.

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:

None proposed.

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.

There are no known environmental hazards in the area.

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.

Fuel will be used for construction equipment and vehicles.

4) Describe special emergency services that might be required.

No special emergency services are anticipated.

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

As described in items B.1.h. and B.3.d. above, best management practices and other measures will be used to avoid or contain/control any spills or other releases of hazardous materials during project construction.

The contractor will prepare a health and safety plan as part of the contract for the proposed project. This plan will comply with all applicable health regulations and will detail measures to control environmental health hazards. Any contaminated soil encountered will be removed from the project site and properly handled and disposed.

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.

Short term intermittent construction-related noise will be generated at the reservoir structure and along the new waterline and outfall diffuser during construction. Construction activity is generally anticipated to occur between the hours of 7 a.m. and 5 p.m. on weekdays.

The main source of noise will be from the operation of heavy equipment during construction of the reservoir upgrades and excavation and installation of the new overflow water line. These types of equipment typically generate noise in the range of 75-90 dBA at a distance of

50 feet. The potential use of a pile driver to install excavation support systems could range up to 95 dBA.

The reservoir structure is located underground and is not anticipated to result in long-term noise after the project is completed.

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

Construction activity is generally anticipated to occur between the hours of 7 a.m. and 5 p.m. on weekdays and will comply with the City of Seattle's noise regulations if work is required on weekends and holidays. Work outside of these hours will require a variance. Additional measures to reduce or control noise impacts during construction may include the following:

- Mufflers on all gas powered equipment;
- Provide electricity from the power grid and encourage the use of electric or hydraulic tools when practicable;
- Notify residents and businesses near active construction areas of upcoming noisy construction activities;
- 24-hour construction hotline to promptly respond to questions and complaints.
- Noise barriers if needed.

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.

The project site is located in Discovery Park. The West Point Treatment Plant is located to the northwest. The project will modify an existing structure in the park. The proposed overflow water pipe will be buried, and the outfall structure will be located in an area away from publicly assessable trails.

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.

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.

The existing water reservoir access structures are located on the site. The existing entrance to the reservoir mechanical room is accessed by a below-grade stairway surrounded by an above-ground metal screen, secured with a locking gate. Reservoir vents and a mechanical air intake extend above ground to the east of the existing access stairs. The water tanks are accessed via a 24" diameter manhole located near the reservoir structure access located at the south end of the C2 tank.

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

The project will remove the existing screened enclosure and replace with a new above-grade enclosure, utilizing a hatch and partial roof above the existing entrance to the underground mechanical room. A new access hatch to the C1 reservoir will be installed just above existing grade. The existing 8-inch diameter pipe and vent in the below-ground mechanical room will be removed and replaced with a 10-inch diameter vent. Portions of the existing below-ground pipe system will be salvaged and re-used in the new piping orientation.

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

Discovery Park and the surrounding area is zoned Single Family (City of Seattle Generalized Zoning map November 2017).

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

The area is designated Single Family per the Seattle comprehensive plan map.

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.

The City of Seattle has classified portions of Discovery Park as steep slopes.

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

No people would reside at the completed project. Workers may occasionally visit the site for maintenance and annual inspection of the facility.

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

None.

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

None needed; no displacement will occur.

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

Upgrades to the existing reservoir structure will be reviewed by Seattle Parks to ensure aboveground structure upgrades are consistent with the current and projected land uses in the Discovery Park area.

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

None. The project is not located near agricultural and forest land.

9. Housing

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:

None. The project will not result in an impact to housing.

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?

The height of the tallest structure will be approximately 6 feet.

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

In the short-term, construction activities will be visible from the public trail in the park. The project will replace above-ground structures with similar structures. The only visible difference will be construction of the outfall diffuser area, which will be largely screened by existing vegetation and re-vegetation after construction. No views will be obstructed as a result of the completed project.

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

The project will modify an existing structure located near a public trail in Discovery Park. The project will improve aesthetics by replacing an existing chain-link fence enclosure with a new wood and metal enclosure.

11. Light and glare

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

Temporary lighting may be required during construction. Upon project completion, intermittent light may result from workers visiting the site to perform maintenance or inspections.

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

Light or glare from the finished project would not be a safety hazard or interfere with views. Workers may visit the site during evening or nighttime hours to perform maintenance or inspections, which could result in light being emitted temporarily and for limited durations in the form of vehicle headlights, flashlights, headlamps, or a similar nature.

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

None.

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

None proposed. Any light or glare impacts would be temporary in nature.

12. Recreation

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

The project is located in Discovery Park in Seattle, adjacent to portions of the Loop Trail. The Loop Trail is used primarily pedestrians for walking through Discovery Park.

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

The project is expected to temporarily impact portions of recreational trails is Discovery Park. The Contractor will coordinate temporary trail closures and/or detour routes with Seattle Parks.

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

Detour routes would be provided as necessary. The project will not provide recreational opportunities.

- 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.

The project was screened for cultural resources by the King County Historic Preservation Program in April 2015, which included a review of historic maps and state database records for areas near the project site. No evidence or artifacts of cultural significance are known to exist within the immediate project vicinity. No above ground historic resources will be affected by the project.

The Fort Lawton Historic District is located approximately 1,600 feet to the east of the project site. There are two historic refuse dumps approximately 250 feet from the project site.

West Point Treatment Plant is located approximately 1,800 feet to the west and north of the project site. The treatment plant overlaps a recorded historic archaeological site.

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.

The project was screened for cultural resources by the King County Historic Preservation Program in April 2015. There are no known cultural resources in the project area. No above ground historic resources will be affected as part of this project.

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.

An Inadvertent Discovery Plan will be in place prior to construction.

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 project area can be accessed from Discovery Park Boulevard.

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 site is not served by public transit. The closest King County Metro bus stop is approximately one (1) mile away, south and east of the project site on West Emerson Street, accessible from the project site via The Loop Trail.

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

None.

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 new roads, or improvements to existing roads, are planned as part of this project. Restoration of road and trail surfaces impacted by the project will occur following completion of construction, if necessary.

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

The project will not use water, rail, or air transportation.

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?

Occasional worker vehicle trip may be made for maintenance and annual facility inspections.

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:

Contractors will be required to comply with a traffic control plan, if required, approved by the appropriate jurisdiction. Typical traffic control measures that could be implemented include:

- Provide detours;
- Provide flaggers;
- Maintain access to businesses and residences;
- Provide advance notice of the project through postings and other means to alert potentiallyaffected residences and businesses, and users of affected roadways;

- Work with residents and businesses to minimize inconvenience when construction activities affect access to their properties.
- Provide continuous access to emergency vehicles and other services during construction.

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.

Public service impacts would be minimal, if any. King County will coordinate directly with the City of Seattle to minimize impacts to public services. Coordination may include providing notification to nearby property owners and residents about upcoming construction, and coordination with service providers such as transit, waste disposal, and postal delivery services.

16. Utilities

- a. Circle utilities currently available at the site: <u>electricity</u>, natural gas, water, refuse service, telephone, sanitary sewer, 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.

The existing reservoir serves King County's West Point Treatment Plant to the northwest of the project site. No new utilities are proposed as part of this project.

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:

Katherine Fischer, Supervisor, Environmental Services Unit

Date Submitted: 12/14





Department of Natural Resources and Parks Wastewater Treatment Division

Figure 1. VICINITY MAP

WEST POINT TREATMENT PLANT C1C2 RESERVOIR MODIFICATIONS





APPROX OUTLINE OF



King County Greenhouse Gas Emissions Worksheet - WPTP C1C2 Reservoir Modifications Project

Section I: Buildings

			Emissions Per Unit or Per Thousand Square Fee (MTCO2e)			
		Square Feet (in			¥	Lifespan
Type (Residential) or Principal Activity		thousands of				Emissions
(Commercial)	# Units	square feet)	Embodied	Energy	Transportation	(MTCO2e)
Single-Family Home	0	NO SILLAR TAN	98	672	792	0
Multi-Family Unit in Large Building	0	MILL STATISTICS	33	357	766	0
Multi-Family Unit in Small Building	0		54	681	766	0
Mobile Home	0		41	475	709	0
Education		0.0	39	646	361	0
Food Sales	3112 2 0	0.0	39	1,541	282	0
Food Service	A REAL PROPERTY AND	0.0	39	1,994	561	0
Health Care Inpatient		0.0	39	1,938	582	0
Health Care Outpatient	No. A. C. S.	0.0	39	737	571	0
Lodging	at and	0.0	39	777	117	0
Retail (Other Than Mall)	V. M. S. S. M. S.	0.0	39	577	247	0
Office		0.0	39	723	588	0
Public Assembly		0.0	39	733	150	0
Public Order and Safety	12 Marshall	0.0	39	899	374	0
Religious Worship	R. Barres	0.0	39	339	129	0
Service	and the second second	0.0	39	599	266	0
Warehouse and Storage	States 2	0.0	39	352	181	0
Other	2 Contraction	0.8	39	1,278	257	0
Vacant		0.0	39	162	47	0

Section II: Pavement.....

Pavement	0.02	1
Total P	0	

Existing manhole structure is approximately 24 square feet. Total existing, new, and replaced impervious surface, including rock, is less than 100 square feet.

Note: