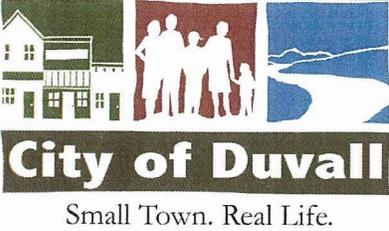


<p>Received Stamp</p> <p>RECEIVED</p> <p>JAN 6 2018</p> <p>CITY OF DUVALL Public Works Dept</p>		<p>Planning Department</p> <p>15535 Main St. NE PO Box 1300 Duvall, WA 98019 (425) 788-2779 FAX (425) 788-8097 www.duvallwa.gov</p>
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SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

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

Instructions for applicants:

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

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

Instructions for Lead Agencies:

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

Use of checklist for nonproject proposals: [\[help\]](#)

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

A. Background [\[help\]](#)

1. Name of proposed project, if applicable:

Parkwood Estates Stormwater Pond Retrofit

2. Name of applicant:

City of Duvall Public Works Department

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

Shaun Tozer
City of Duvall Public Works Department
14525 Main St. NE
Duvall, WA 98019

4. Date checklist prepared:

12/23/2015

5. Agency requesting checklist:

City of Duvall

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

Construction of pond improvements are anticipated to occur in the Summer of 2016.

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

No plans for future additions, expansions, or further activity related or connected with this proposal.

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

No known site-specific environmental information has been prepared to our knowledge.

No sensitive areas have been mapped within the constructed stormwater facility pond. All proposed pond improvements will be completed within the existing facilities and adjacent developed right of way.

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

None known.

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

None known.

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 Parkwood Estates pond is located at the northwest corner of 279th Lane NE and NE Big Rock Road. The pond was constructed as a single cell, asphalt lined pond in 1986 to provide limited flow control for the 68 homes and associated interior and exterior road frontage. The project site was selected because the existing pond serves a large drainage area, has little or no water quality BMP's, was previously identified as a deficiency in the City's 6-year CIP, and could be cost-effectively improved to provide a significant water quality benefit.

Several design iterations were completed to maximize the various LID BMP's including a new water-quality wetpond, removal of pavement liner and replacement with 3(H):1(V) vegetated slopes, installation of a biofiltration swale to improve water quality, and retention of existing mature conifers to reduce solar temperature gain. Value-engineering identified the use of rockeries and block wall to increase available pond volume and maximized the biofiltration swale location and geometry to provide enhanced water quality.

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

This project in the Parkwood Estates neighborhood, stormwater pond parcel (6672930360 TIN), and is located at the NW corner of the intersection of 279th Lane NE and NE Big Rock Road in Duvall, WA. See attached vicinity map and plans

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

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

The site is located within an area of relatively flat topography. The existing pond and ditch are approximately 4 feet deep.

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

Site slopes at approximately 2-3% from the east down to the west. Constructed slopes within the pond and ditch facility are sloped up to approximately 30 percent for heights of up to approximately 4 feet.

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

The site is mapped by the Soil Conservation Service as Soil Unit 255, Tokul gravelly loam.

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

None observed.

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 2200 cubic yards will be excavated from the pond footprint to increase depth and provide water quality. The excavated soil will be disposed of at an approved facility. Structural fill from an approved site will be imported to backfill trenches, behind walls, and for construction of the separation berm.

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

Yes. Erosion could occur if proper erosion control measures are not taken. The City will use approved temporary erosion control measures during the project to reduce the risk of erosion.

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

This project will generate no additional impervious surface.

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

Standard erosion control BMPs will be installed prior to construction and regularly inspected throughout. These BMPs include, but are not limited to: biodegradable erosion control blankets, temporary seeding, silt fence, straw bales, containment fences, stabilized construction entrances, and final revegetation of the disturbed areas. In addition, the project will comply with the City of Duvall's municipal NPDES permit with the Department of Ecology as well as all related City code.

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.

The project may result in short-term reductions in air quality due to increased emissions from construction equipment, vehicles, and dust during construction. No permanent emission will be generated by the project upon its completion.

- 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:

During construction, measures will be taken to limit the amount of idling time of construction equipment and vehicles. Dust will be minimized by spraying exposed soil with water, if necessary. Paved streets will be swept daily following construction activities.

3. Water

- a. Surface Water:

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

The project includes an existing stormwater pond facility constructed as part of the Parkwood Estates Development in 1986. No other surface water is located at the site.

- 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.

Not applicable.

- 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.

Not Applicable

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

Construction of this project is anticipated to be completed during the dry summer months with stormwater being temporarily conveyed through a bypass system around the work area.

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.

No groundwater will be withdrawn or discharged.

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 material will be discharged into 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.

This project will greatly improve the storage and water quality abilities of the pond. Improvements include multiple water quality components, additional storage, and LID practices including tree retention and biofiltration. The proposed 4-foot deep stormwater dead storage portion of the pond provides water quality improvements by settling fine sediment that would otherwise enter the LID/Biofiltration system. The additional live storage provides reduced flow, additional settling time, and more effective treatment within the biofiltration swale.

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

Waste materials are not anticipated to enter any waters.

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

Drainage patterns will be similar to the existing drainage patterns in the vicinity of the site.

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

To reduce or avoid impacts to surface, ground, and runoff water impacts, the project will incorporate the following measures at the minimum:

- Preparation and implementation of an approved Temporary Erosion and Sediment Control (TESC) plan
- Erosion control BMPs (erosion control blankets, silt fence, straw wattle, straw mulch, plastic covering, seeding, check dams, inlet protection, etc.)
- Storm flows will be diverted during construction
- Pond construction will take place within an approved dry-weather time period.
- Check equipment daily for leaks
- Proper containment of any concrete, petroleum, or other potentially hazardous substances
- Preparation of a Spill Prevention, Pollution, and Countermeasures (SPCC) plan for procedures and contacts to act upon in the event of a spill
- All washout water and waste materials will be fully contained and disposed of offsite in accordance with federal, state, and local laws

4. Plants

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

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

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

The existing pond is lined with asphalt, surrounded by grass & brush, and includes a number of trees around the site. Existing vegetation around the perimeter of the proposed pond will be

preserved as much as possible. Construction will involve removal of approximately ten trees, two of which are significant in size.

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

There are no known listed plant species 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:

All unimproved disturbed areas outside the limits of the proposed roadway improvements will be restored by seeding with native seed mixes and planting site-appropriate native species. Any significant trees removed from the site will be replaced in accordance with DMC guidelines. Additional landscaping will generally be limited to minor restoration (hydroseeding) and screening as necessary to meet permit requirements.

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

Himalayan blackberry (*Rubus armeniacus*)
Evergreen blackberry (*Rubus laciniatus*)
Canada thistle (*Cirsium arvense*)
Common dandelion (*Taraxacum officinale*)

5. Animals

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

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

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

There are no listed terrestrial species known to be on or near the site.

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

Most of the State of Washington is part of the Pacific Flyway Route.

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

None proposed.

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

None known.

6. Energy and Natural Resources

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

None proposed

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

No. The proposed project will not affect the potential use of solar energy by adjacent properties.

- 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.

No environmental health hazards are anticipated. However, as there will be concrete work involved and heavy construction equipment used, there is the potential for spill of concrete or petroleum products.

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

No sites with reported contamination are present within or immediately adjacent to the project limits and therefore the project does not have the potential to generate contaminated soils or groundwater.

- 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.

There are existing underground natural gas transmission lines near the project limits. The Contractor will employ use of safe construction practices in accordance with city, state, and federal standards to limit potential hazards.

- 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.

As the project will involve concrete work and the use of heavy equipment, concrete and petroleum products will be stored and used throughout the project.

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

No additional emergency services will be required.

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

A SPCC plan will be approved prior to construction. Spill cleanup and containment materials will be onsite at all times. All waste materials will be fully contained and disposed of offsite in accordance with applicable federal, state, and local laws.

b. Noise

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

Traffic noise from Big Rock Road is the main source of noise within the project area. Noise is not anticipated to affect the project.

- 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.

There will be short-term increases in noise from construction equipment. Construction activities will generally be limited to the period between 7:00 am and 6:00 pm, Monday through Saturday (Duvall Municipal Code 6.04.060). Work outside of those approved hours may be requested in advance by the Contractor and approved by the City Engineer.

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

Construction activities will generally be limited to the period between 7:00 am and 6:00 pm, Monday through Saturday; except as otherwise authorized by the Engineer. All noise generated by construction activities will comply with Duvall Municipal Code 6.04.

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.

PIN 6672930360 (Stormwater Pond Parcel) is a stormwater pond located adjacent to single family residential homes.

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

Not known prior to 1986 and construction of the Parkwood Estates residential subdivision.

- 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.

None except for the existing stormwater pond and appurtenances.

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

No structures will be demolished.

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

The site is a public facility located within an R4 zone.

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

Public facility surrounded by single family residential

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

Not applicable, the site is outside of the SMP zone.

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

No portion of the site has been classified as environmentally sensitive.

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

None.

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

None.

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

Not applicable.

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

Not applicable.

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

Not applicable.

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:

Not applicable.

10. **Aesthetics**

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

Not applicable.

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

None.

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

The project will completely stabilize and restore all unimproved disturbed areas upon completion.

11. Light and Glare

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

None.

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

No.

- 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:

Not applicable.

12. Recreation

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

None.

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

No.

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

None.

13. Historic and cultural preservation

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

No.

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

There are no known landmarks, features, or other evidence of Indian or historic use or occupation within the projects Area of Potential Effects (APE). There are also no material evidence, artifacts, or areas of cultural importance on or near the 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.

Complete a cultural resource review with the Washington State Department of Archaeology and Historic Preservation (DAHP), if required for grant compliance. Stop work and contact the DAHP if any evidence of cultural resources are observed during project construction.

- 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.

Following DAHP consultation an inadvertent discovery protocol will be included in the project documents.

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 site is bordered by 279th PN NE and NE Bog Rock Road. No new access to the site is proposed.

- 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?

Not applicable.

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

Not applicable.

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

No.

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

No.

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

Vehicular traffic will not increase as a result of the proposed project.

- 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:

Minor traffic control with signs and flaggers will be necessary during the project.

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.

Not applicable.

16. Utilities

- a. Circle utilities currently available at the site:

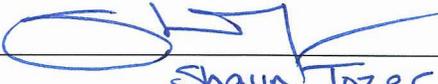
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

- 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.

No additional utilities are proposed for the project.

C. Signature [\[help\]](#)

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

Signature:  _____
Name of signee Shawn Tozer
Position and Agency/Organization Project Manager, City of Duall
Date Submitted: 1/6/2016