SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

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

Instructions for applicants:

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

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

Instructions for Lead Agencies:

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

Use of checklist for nonproject proposals:

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

A. Background [HELP]

1. Name of proposed project, if applicable:
   Block Walls Reconstruction

2. Name of applicant:
   Kelvin Lo

3. Address and phone number of applicant and contact person:
   3728 E Mercer Way
   Phone:415-335-8809

4. Date checklist prepared: May 19,2018

5. Agency requesting checklist:
   City of Mercer Island
6. Proposed timing or schedule (including phasing, if applicable):
   Get Critical Area Determination approved first, start construction in summer of 2018.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   No any futher future addition or activities after this projet fully completed.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
Geotechnical report will be submitted to review for this project.

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.
N/A

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

   Construction permit
   Building permit
   Utility and Land use 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 proposed project site is approximately 18,415 S.F. with an existing single family home and garage on site. This project is proposed to remove all block walls built on site without permits, and rebuild block walls per geotechnical engineer recommedations to meet city of Mercer Island codes.

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 proposed project is located 5660 E Mercer Way Mercer Island, WA 98040. This parcel is that portion of Goveernment lot 3, Section 19, Township 24 North, Range 5 East W.M. In King County Washington.

B. Environmental Elements [HELP]

1. *Earth* [help]

a. General description of the site:

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

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

15-33%,

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 consists of top soil, medium silt fine sand, etc.

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

No surface indication or history of unstable soil on the site.

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.

This project will disturb about 6,000 S.F. area, which is currently covered by plastic to protect existing slope. The gradation will not be substantial change. Cut and will moderate for this project. The excavation for block walls are approximately 25 cubic yard, fill is about 40 cubic yard. The excessive excavation materials will be export to dump site. Grave borrow will be used for fill if it is necessary. The gravel borrow will import from approved pit site to ensure contamination free.

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

Erosion might occur due to the site is steep slope and BMPs will implement during the construction. No serve erosion will expect during the life of the project.

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

Approximately 35% of the site will be covered by imperious area.

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

- Exposed soils will be reseeded with grass.
- Plastic will be used to cover exposed soil during wall reconstruction.
- Water pollution control during walls modifications (i.e., silt fences and check dams).
- Install silt fence between earthwork and the sedimentation.
- Water pollution control after drainage modifications (i.e., route drainage outfalls to vegetated surfaces and armor outlets).

- Compact all fills in thin lifts using free-draining granular material.

2. Air [help]

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

Construction equipment and vehicles will generate minor quantities of exhaust emissions (and possibly some dust during the summer months) during daylight weekday hours, for the life of the project.

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

No.

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

Construction equipment and vehicles are required by law to have in place and functional the emission control devices they were equipped with at the time of their manufacture. Dust will be controlled as needed by water sprayed on work area.

3. Water [help]

a. Surface Water: [help]

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

Water body-Lake Washington is located at the east side of proposed project 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.

No required works will be taken place within 200 feet from the shoreline.

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.

N/A

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

N/A

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: [help]

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

No.

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

NO.

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.

Storm water will generate from roof and driveway. Stormwater runoff will collect by catch basin designed for this project. Runoff from roof also will drain to catch basin. All stormwater will convey by the pipe to the existing drainage system prior directly discharge into a water body from this project.

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

No. in the event of an accidental spill on the project. Ground water is unlikely to be affected. Measures will be taken to protect ground water quality.

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

This project will not alter any existing drainage flow patterns.

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

- Reseeding exposed soils with grass.
- Intercepting sediments with silt fences or composed socks during earthwork.
- Machine compact all fills in thin lifts using free-draining granular material.
- Sediment trap will collect all sediments.

4. Plants [help]

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

___deciduous tree: alder, maple, aspen, other
__x__evergreen tree: fir, cedar, pine, other
__x__shrubs
___x_grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

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

Grass will be removed during construction, all expose areas will be re-seeding during or after construction.

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

No any threatened or endangered species on site.

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

- As much of the existing vegetation as possible will be preserved.
- Disturbed soil surfaces will be reseeded with an acclimated grass species.
- Protect water quality during and after costruction (i.e., silt fences, check dam).

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

No.

5. Animals [help]

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.

No animals found on the proposed 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.

N/A

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

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

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

6. Energy and Natural Resources [help]

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

The primary source of energy used to construct this project will be from the combustion of fossil fuels, primarily diesel, used to power heavy equipment and trucks.

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:

1) Minimize haul distances.
2) Use fuel-efficient equipment.

7. Environmental Health [help]

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

No environmental health hazard issues presented to the job site.

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

No contamination at the site at all.

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.

No existing hazards presented to the job site.

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

No toxic or hazardous materials will be stored or used on the job site.

4) Describe special emergency services that might be required.

Fire, police, ambulance and/or HAZMAT spill team.

5) Proposed measures to reduce or control environmental health hazards, if any:
a) Practicing prudent safety precautions when operating equipment or handling fuels, coolants and lubricants.
b) All personnel are trained in advanced first aid and emergency traffic control procedures.

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.

Heavy equipment and trucks will generate noise during active construction, scheduled for daylight hours on weekdays. Noise will return to ambient levels at the end of construction. No heavy demo will be occurred on the site.

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

All trucks and equipment used on the project are required to have adequate mufflers as installed by the manufacturer. All work will be performed during daylight hours.

8. Land and Shoreline Use [help]

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

single family houses are surrounding at the existing site. The proposal project won't affect the current land uses for the adjacent properties.

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

how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

This property was not used as farmland or working forest in the past.

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:

This proposal project will not affect adjacent properties at all. No working farm or forest land near the proposal project site.

c. Describe any structures on the site.

A single family house and a garage located at this property.

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

Yes, remove existing 4 block walls and replace them per geotechnical engineer recommendations.

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

Single Family- R15

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

Single Family House.

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

N/A

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

N/A

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

4 People might reside at this exising house, it will depend on the family size.

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

None.

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

Coordination with all land use and resource management agencies with jurisdiction, through circulation of this document and acquisition of the necessary regulatory permits, as well as through direct communication.

N/A

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
This proposed project is compatible with existing land uses plan.

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

9. Housing [help]

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

This proposal project will remove existing block walls and replace them per engineer recommedations. No high, middle, and low income house will be designated for this project.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.
None

c. Proposed measures to reduce or control housing impacts, if any:
None

10. Aesthetics [help]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
The tallest block wall will be 6-8 foot. The exterior building materials will not changed at all.

b. What views in the immediate vicinity would be altered or obstructed?
No views will be alter or obstructed to its neighborhood.

b. Proposed measures to reduce or control aesthetic impacts, if any:
N/A

11. Light and Glare [help]

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?
None. Work is scheduled for daylight hours only.

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

None.

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.

12. Recreation [help]

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.

None.

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 [help]

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

None.

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

None.

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.

No evidence of Indian or historic use on the job site. If something coming up during construction, construction will be stopped immediately, local tribes and the City of Mercer Island or King County will be notification immediately.

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.

if something is discover during the construction, the following steps will be taken.

- Review DAHP's recordation guidelines if documentation is proposed to serve as a mitigation measure.
- Avoidance with modifying project.
- Maintaining, or restoring the integrity of the site or landmark to the extent possible. Relocating the structure or artifact.
- Meeting tribal needs for the sanctity of the location.
- Require compliance with an Inadvertent Discovery Plan

14. Transportation [help]

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

This property is direct access to E Mercer Way. I-90 is located more than 1 mile north from the job site.

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

No transit serves near the proposal area.

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

No parking space will be eliminated. this project will not change any existing parking space on site.

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 requirement to improve any public existing road, streets, pedestrian, and other transportation facilities.

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?

No additional Traffic will be generated after completing this project. Traffic studied is not required for this 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 impact to the moment of agricultural and forest products on road or streets

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

An approved traffic control plan will be implemented if it is needed.

N/A

15. Public Services [help]

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

No additional public servie will be increased after completing this project.

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

16. Utilities [help]

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other

c. 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.

This project will not change any existing utilities on stie.

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 _____Steve Wu_____

Position and Agency/Organization _**Engineer TEC Inc**

Date Submitted: __**4/30/2018**

D. Supplemental sheet for nonproject actions [HELP]

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

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

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

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

This project will not increase imperious areas and sewer disposal from the job site. Emissions to air is and nosie increase is minal.

Proposed measures to avoid or reduce such increases are:

This job site is flow control exemption, Pollution Generated imperious area is minal and on site BMP's will be implement. Sewer will collect into the existing sewer system.

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

This project will not post any impact to plants, animals, fish, etc.

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

New Landscapes will be implement on site. Minimize to use pesticides on site.

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

This proposal project will use natural gas and other renewal resources to minimize environmental impacts.

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

Conserve energy during and post construction.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

This project will not affect any environmentally sensitive areas.

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

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

This proposal will compatible with existing plans. This project will not have negative impact on land and shoreline.

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

Planting more trees, minimize soils disturbed, implement BMP's during and post construction.

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

This project will not have any negative impact or increase demands on transportation and public services significantly.

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

Taking public transit, use renewal energy will help to minimize any impacts.

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

No subjects are identified that will conflict with government requirement for protection of the environment.