

ENVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring the preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the question from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply". Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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 the your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or to provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (Part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable: **Mazanti Henderson Inlet Shellfish Farm**
2. Name of applicant: **Taylor Shellfish Company**
3. Address and phone number of applicant and contact person:
Erin Ewald
Taylor Shellfish
SE 130 Lynch Road
Shelton, Washington 98584
(360) 432-3348
4. Date checklist prepared: **July 20, 2022 (Rev 4/5/2023)**
5. Agency requesting checklist: **Thurston County Planning Department**

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

Operations will begin upon approval of permits and continue on an on-going basis.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **No.**

This project is for the commercial production of geoduck, Manila clam, and oyster and will be on-going.

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

**Taylor Shellfish Environmental Codes of Practice
Programmatic Biological Assessment, Shellfish Activities in Washington State Inland Marine Waters, U.S. Army Corps of Engineers Regulatory Program, October 2015. Programmatic Biological Opinion, National Marine Fisheries Service, September 2015. Programmatic Biological Opinion for Shellfish Activities in Washington State Marine Inland Waters, U.S. Fish and Wildlife Service, August 2016.**

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.

No.

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

**Army Corps of Engineers Individual Permit Authorization (includes State 401 review)
Department of Ecology Coastal Zone Management Act Consistency Statement
Department of Fish and Wildlife Aquatic Farm Registration
Department of Health Harvest Site Certification
Tribal Notification, Survey and Review**

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 agency may modify this form to include additional specific information on project description.)

This project is for the commercial production of shellfish (see map for acreage). Geoduck, Manila clam, and oyster culture activities will be considered under this review. For geoduck production, nursery (PVC or mesh) tubes are placed in the substrate on approximately one-foot centers. The tubes extend from the substrate approximately 4-9 inches. Three to four geoducks are planted by hand in each tube. When PVC nursery tubes are used, canopy netting is used to cover the tubes and protect them from dislodging. The netting also mitigates potential visual impacts. After the juvenile geoducks have matured for approximately two years, the tubes are removed and grow-out continues for approximately 4-7 years. During this period, there may be a securely staked predator exclusion net secured on top of the geoduck crop or there may be nothing extending up from the substrate. Harvest occurs when the geoducks reach marketable size (between 1-2 pounds). Harvest is done using a hydraulic wand inserted into the substrate directly adjacent to individual geoduck. The geoducks are gently removed from the substrate by hand and placed in baskets for transport by boat to the processing plant.

Manila clam beds may or may not be covered by securely staked predator exclusion nets. Once the Manila clams are mature (after about 2 to 3 years), they would be harvested mechanically or by hand using clam rakes during low tides. Manila clams would be placed in trays, buckets, or bags and then removed from the site by boat. When harvesting occurs, predator nets and stakes would also be removed

~~but replaced directly following harvest.~~

~~Oyster seed would be placed in two to eight millimeter mesh bags or on bottom without bags. When bags are used, they are strung together and staked to the ground. The oysters would remain in bags during the nursery phase (usually 1 year) until they reach approximately three inches in size, where they would be removed from bags and spread directly onto the tidelands to mature and harden. Once oysters are mature (typically after 2 years), they would be handpicked during low tide either by forking oysters into tubs or pulling bags and removing from the site by boat.~~

12. Location of 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 topographical 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 applications related to this checklist.

The activity will take place on tidelands located in parts of Section 5, Township 19, Range 1 West, W.M. in Henderson Inlet, Thurston County. See attached map.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountains, other _____.

Subtidal marine bedlands.

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

<2%.

- c. What general types of soils (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Marine substrate consisting of sand and mud.

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

Not applicable.

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

None.

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

No.

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

None.

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

Not applicable.

2. Air

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

There may be short-term increases in barge exhaust during portions of the operation. There are no long-term, permanent increases of air emissions as a result of farm operations.

- 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:

All equipment will have approved exhaust systems. Operations may be incorporated into existing work schedules for other activities in the area to minimize potential impacts.

3. Water

- a. Surface:

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

Yes. This proposal takes place on privately-owned tidelands in Henderson Inlet.

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.

Yes. This project directly involves marine waters. See attached diagrams and maps.

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 the 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:

1) Will groundwater be withdrawn, or 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 such systems, the number of houses to be served (if applicable), or the number animals or humans the system(s) are expected to serve.

None.

c. Water Runoff (including storm water):

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

Not applicable.

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

Not applicable.

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

Not applicable.

4. Plants

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

- ☐ deciduous tree: alder, maple, aspen, other
- ☐ evergreen tree: fir, cedar, pine, other
- ☐ shrubs
- ☐ grass
- ☐ pasture
- ☐ crop or grain
- ☐ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
- ☐ water plants: water lily, eelgrass, milfoil, other
- ☐ other types of vegetation – marine algae

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

Bivalves consume marine algae for nutrition.

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

None.

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

Not applicable.

5. Animals

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

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

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

None known to be on the site, but there may be salmonid species that migrate through the area.

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

Salmonids may migrate through the area. Some migrating marine birds may pass through this area.

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

There is evidence that shellfish culture activities, including geoduck farming, enhance habitat values and functions and serve to mitigate impacts resulting from other activities that may occur in the upland vicinity. Conservation measures are proposed and will be implemented as detailed in Programmatic Biological Assessment, Shellfish Activities in Washington State Inland Marine Waters, U.S. Army Corps of Engineers Regulatory Program, October 2015.

6. Energy and Natural Resources

- a. What kinds of energy (electrical, 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.

- 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.

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.

Minimal exposure to environmental health hazards from vehicle and boat operations and work being conducted in marine waters.

- 1) Describe any emergency services that might be required.

Fire and ambulance services may be required in the event of worker accidents. Oil booms may be required for broken lines or accidental spills.

- 2) Propose measures to reduce or control environmental health hazards, if any:

Risk of diesel or oil spill or accident is minimal and all precautions will be used for prevention. Additionally, biodegradable oil will be used in the hydraulic systems. Taylor Shellfish has both a Central Safety and Environmental Codes of Practice committee that guide managers and workers in safe and environmentally sound operations and will oversee operations.

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 basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

There will be no long-term, permanent increase in noise associated with these activities. Short-term noise will increase in some areas at sometimes due to mechanical operations.

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

Motors are muffled by approved exhaust systems, employees are trained to minimize unnecessary noise, and all operations are conducted consistent with Taylor Shellfish Environmental Codes of Practice. Work schedules may be coordinated to reduce potential increases in noise.

8. Land and Shoreline Use

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

This site is private tidelands adjacent to residential development. The site may have been used for passive recreational activities.

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

No.

- c. Describe any structures on the site.

None.

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

No.

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

Rural

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

Rural

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

Conservancy

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

No.

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

Approximately 4-5 people will be needed for operations on average, but additional workers may be used during different aspects of the operation.

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

None.

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

None.

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

Aquaculture is a water-dependent use and encouraged under the Washington State's Shoreline Management Act and Thurston County's Shoreline Master Program. No permanent development will occur.

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.

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?

There will not be permanently installed structures. There will be temporary use of PVC or mesh nursery tubes. See diagrams.

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

The view resulting from this proposal will not be significantly altered.

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

None.

11. Light and Glare

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

The proposal is for farming operations which occur during low tides and will occur during various times during the day or night. Only worker headlamps are used on the beach. The boats may have running lights at night for safety.

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

No. This is a farming operation and is on-going.

- 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. Only lights necessary for safe operations will be used. Crews review safety and training modules annually as reminders on nighttime operation BMPs.

12. Recreation

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

There is informal recreational boating and fishing in the area.

- 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 recreational opportunities to be provided by the project or applicant, if any:

None.

13. Historic and Cultural Preservation

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

No.

- b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site? If so, generally describe.

None.

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

None.

14. Transportation

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

Access to the site will be from boat.

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

No.

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

None.

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

No.

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

Yes. The project site is accessed by boat.

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

None.

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

None.

15. Public Services

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

In the event of an accident, emergency services may be required. Taylor Shellfish employees are well-trained and adhere to all worker safety requirements.

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

Taylor Shellfish conducts quarterly Central Safety Committee meetings to ensure employee compliance with all safety and emergency policies.

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.

None.

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:

A handwritten signature in cursive script, appearing to read "E. S. L.", written over a horizontal line.

Reviewed by (optional):

Title:

Div. Regulatory Affairs

Date:

4/5/2023

