

Aquaculture JARPA

Supplemental Drawing Checklist

September 2014

The ultimate objective of a set of maps or drawings is to allow someone who is unfamiliar with the project to quickly obtain a clear understanding of what is proposed and how the impacted waterbody will be affected. Drawings should be originals and not reduced copies of large-scale plans. Engineering drawings are not required. Existing and proposed site conditions (constructed and landscape features) should be drawn to scale. Not all projects will require all of this information, but please make sure your submittals are as complete as possible.

Page 1 should be a vicinity map, Page 2 should provide a top-down plan view, Page 3 should show a cross-sectional view; additional pages should be used if needed. Every drawing should have a Title Block (see below).

Note: For the purposes of Nationwide Permit 48, *Commercial Shellfish Aquaculture Activities*, the **project area** is the area in which the operator is currently authorized to conduct commercial shellfish aquaculture activities, as identified through a lease or permit issued by an appropriate state or local government agency, a treaty, or any other easement, lease, deed, or contract which establishes an enforceable property interest for the operator.

1. GENERAL GUIDELINES AND USEFUL INFORMATION TO INCLUDE ON DRAWINGS

- () Use clear black lettering and the fewest number of pages necessary; use 8 1/2- by 11-inch paper
- () Vertical and horizontal scales should use the same units of measure (if different, make sure it is clearly labeled)
- () Maps and drawings must include an accurate north arrow and map scale
- () The map should be scaled appropriately to show the area but detailed enough to see features for context
- () Descriptions/types of substrate can be included on drawings and photographs
- () Include photographs of the site. Include aerial photos (if available), photos from the shore looking at the project area, and photos looking toward the shoreline from the water

2. TITLE BLOCK EXAMPLES

- () A completed title block (first example) should be on the first page; for subsequent sheets you can use the smaller abbreviated form (second example)

REFERENCE: <i>(USACE will provide)</i>	LOCATION: _____ <i>(address/intersection/ parcel number)</i>	PROPOSED PROJECT: <i>(e.g. Happy Clam Geoduck Farm)</i>
APPLICANT: _____	LAT/LONG: _____	IN: <i>(waterbody)</i>
ADJACENT PROPERTY OWNERS: 1. <i>(include name/parcel on plan view)</i> 2. <i>(include name/parcel on plan view)</i>	PAGE # OF # DATE: <i>(last revised)</i>	NEAR/AT: <i>(closest city or town)</i> COUNTY: <i>(county)</i> STATE: <u>WA</u>

Reference Number: Applicant Name: Proposed Project: Location: Sheet # of # Date:

3. VICINITY MAP

- () Show and label location of each **project area** (e.g. circle the perimeter, use an arrow, etc.)
- () Show and label location of each **mitigation site**, if applicable
- () List latitude, longitude, section, township, and range and parcel numbers – a parcel map can be helpful
- () Show and label all waterways and critical areas including, but not limited to, shorelines, wetlands, streams, flood zones, lakes, drainage ways, ditches, inlets, oceans, high groundwater and steep slopes

- () Show and label all roads, streets, and/or mileage to nearest town or city including, but not limited to, existing vehicular and pedestrian ingress and egress, driveways, fire-access roads, and existing rights-of-way
- () Directions to the site

4. PLAN VIEWS

- () Identify and label (where appropriate) harbor lines, mean lower low water (MLLW), mean high water (MHW), mean higher high water (MHHW), the ordinary high water mark (OHWM and meander lines
- () Waters bodies, including wetlands and other water features extending across property boundaries
- () Direction of currents, if known (e.g. tidal ebb, drift cells, creek flow, etc.)
- () Identify the latitude and longitude for each corner of the project area and property line dimensions
- () Show and label the current project area including fallow areas (*see Note*)
- () Show and label areas proposed for expansion or new aquaculture activities
- () Specify species, methodologies using a key (e.g., long-line Pacific oysters, tube culture of geoduck, etc.)
- () Identify areas with canopy predator nets
- () Show and label areas with eelgrass and other aquatic vegetation, kelp and other macro algae, or mudflats
- () Show and label critical habitat and/or known essential fish habitat
- () Location and dimensions of easements, setback, etc
- () Legal access locations, if needed for project
- () Indicate location, quantity, and type of fill and excavation (area and volume)
- () Parking areas (if there is an upland component to the project)
- () Show dimensions of proposed and existing structures, including, but not limited to, mobile homes, houses, decks, sheds, garages, barns, fences, culverts, walks, bridges, storage tanks, etc.
- () Indicate type and location of material used in construction and method of construction
- () Location and type of public and on-site utilities (e.g., fire hydrants, storm ponds, gas lines, power lines, wells)
- () Approved septic tank and drainfield locations, including reserve areas
- () Significant landscape features (e.g., retaining walls, rockeries)
- () Identify any part of the activity that has already been completed

5. ELEVATION AND/OR SECTION VIEWS (Cross-sectional view should illustrate the proposed activity as if it were cut from the side and/or front.)

- () Label shorelines with the MLLW, MHW, MHHW, and OHWM, as appropriate
- () Show and label (based on MLLW) water-ward and land-ward limits of the project area boundaries
- () Show original and proposed elevations, water depths, dimensions of proposed structures or fills, and pertinent vertical dimensions to top and base of structure/fill; use the same vertical and horizontal scale
- () If fill material is to be placed, identify the type of material, amount of material (cubic yards), and area to be filled (acres/square feet)

6. DRAWINGS INVOLVING DREDGING AND/OR THE DISPOSAL OF DREDGED MATERIAL

- () If project involves dredging, identify the type of material, amount of material (cubic yards), area to be dredged, method of dredging, and location of disposal site
- () Dredging in areas shallower than -10 (MLLW) feet needs to be clearly identified on the drawings.
- () In-water disposal site name (if applicable) with coordinates and boundaries
- () Upland/beach “beneficial use” disposal site coordinates and boundaries
- () If using an in-water disposal site specify the type (non-dispersive or dispersive)

7. MITIGATION AND/OR PLANTING PLAN DRAWINGS (if needed)

- () Reference the title and date of the approved mitigation/planting plan
- () Planting areas with key identifying specific species and plant spacing
- () Buffer areas and staging or construction access areas
- () Amounts and locations of temporary fill or excavation work (area and volume)
- () Structures, piers, piling, over-water floats, etc. to be removed for the purpose of mitigation
- () Erosion control measures, stabilization of disturbed areas, etc

EXAMPLES:

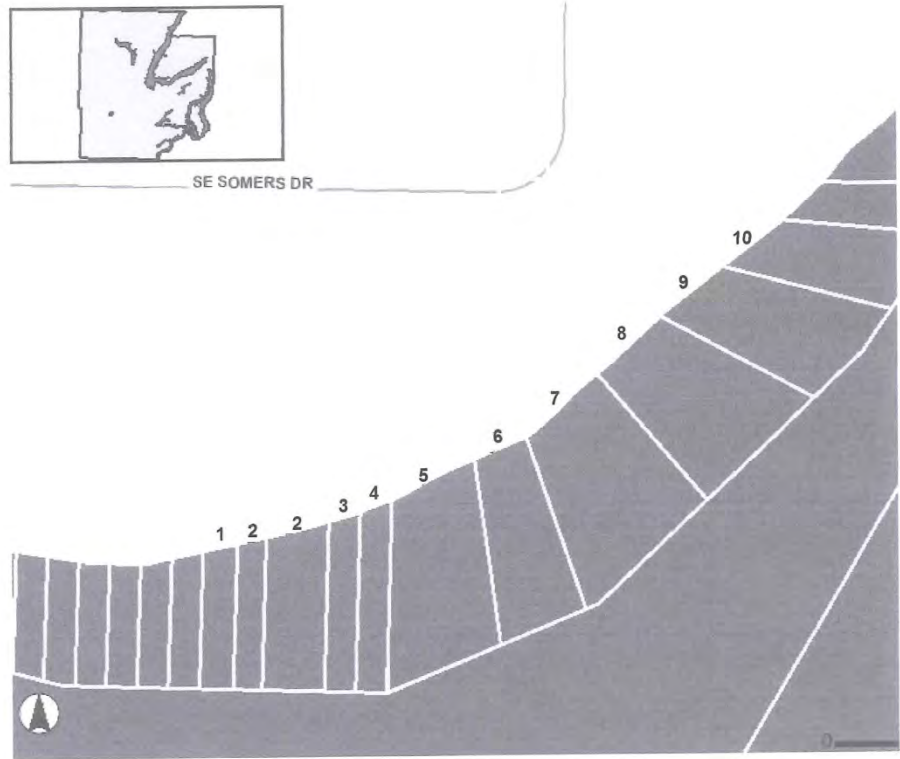
REFERENCE: NWS-2012-	LOCATION: 683 SE Somers Dr, Shelton WA, 98584 Parcel 22032-51-00029 (includes -00028, retired)	PROPOSED PROJECT: A Shellfish Farm
APPLICANT: A Shellfish Company	LAT/LONG CORNERS OF PROJECT AREA: NW: 47.169211, -122.96467 SW: 47.168060, -122.96466 NE: 47.169490, -122.96409 SE: 47.168330, -122.96380	Project area 2 acres; Farm Site area .75 acres
PAGE 1A	ADJACENT PROPERTY OWNERS:	IN: Totten Inlet, South Puget Sound NEAR/AT: Shelton COUNTY: Mason STATE: WA
DATE: 01.15.13	1. Neighbors Parcel 22032-51-00027 2. Parcel 22032-51-00030	

VICINITY CLOSE-UP



REFERENCE: NWS-2012- APPLICANT: A Shellfish Company PAGE 1B DATE: 01.15.13	LOCATION: 683 SE Somers Dr, Shelton WA, 98584 Parcel 22032-51-00029 (includes -00028, retired) LAT/LONG CORNERS OF PROJECT AREA: NW: 47.169211, -122.96467 SW: 47.168060, -122.96466 NE: 47.169490, -122.96409 SE: 47.168330, -122.96380 ADJACENT PROPERTY OWNERS: 1. Neighbors Parcel 22032-51-00027 2. Parcel 22032-51-00030	PROPOSED PROJECT: A Shellfish Farm Project area 2 acres; Farm Site area .75 acres IN: Totten Inlet, South Puget Sound NEAR/AT: Shelton COUNTY: Mason STATE: WA
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**NEIGHBOR PARCELS WITHIN ~ 300 FEET OF FARM SITE
OWNER NAMES & ADDRESSES SHOWN ON PAGE 1C**



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DATE: 01.15.13	1 Neighbors Parcel 22032-51-00027 2 Neighbors Parcel 22032-51-00030	

NEIGHBOR PARCEL OWNER NAMES & ADDRESSES

**UPLAND PARCEL OWNERS
WITHIN ~300 FEET OF PROPOSED FARM SITE
(Mason County Assessor Web Site, 09-30-2012)**

- | | |
|---|--|
| 1. Parcel 22032-51-00022
Neighbors
Shelton, WA 98584 | 6. Parcel 22032-51-00030
Neighbors
Battle Ground, WA 98604 |
| 2. Parcel 22032-51-00023-25
Neighbors
Sumner, WA 98390 | 7. Parcel 22032-51-00031
Neighbors
Federal Way, WA 98003 |
| 3. Parcel 22032-51-00026
Neighbors
Shelton, WA 98584 | 8. Parcel 22032-51-00032
Neighbors
Shelton, WA 98584 |
| 4. Parcel 22032-51-00027
Neighbors
Shelton, WA 98584 | 9. Parcel 22032-51-00033
Neighbors
Tacoma, WA 98422 |
| 5. Parcel 22032-51-00029
(includes -00028, retired)
Neighbors
Shelton, WA 98584 | 10. Parcel 22032-51-00034
Neighbors
Portland, OR 97229 |

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DATE: 01.15.13		

DIRECTIONS AND MILEAGE

bing Maps

My Notes

A Olympia, WA

B 683 SE Somers Dr, Shelton, WA 98584

Route: 23.4 mi, 33 min

On the go? Use m.bing.com to find maps, directions, business, and more.

A Olympia, WA

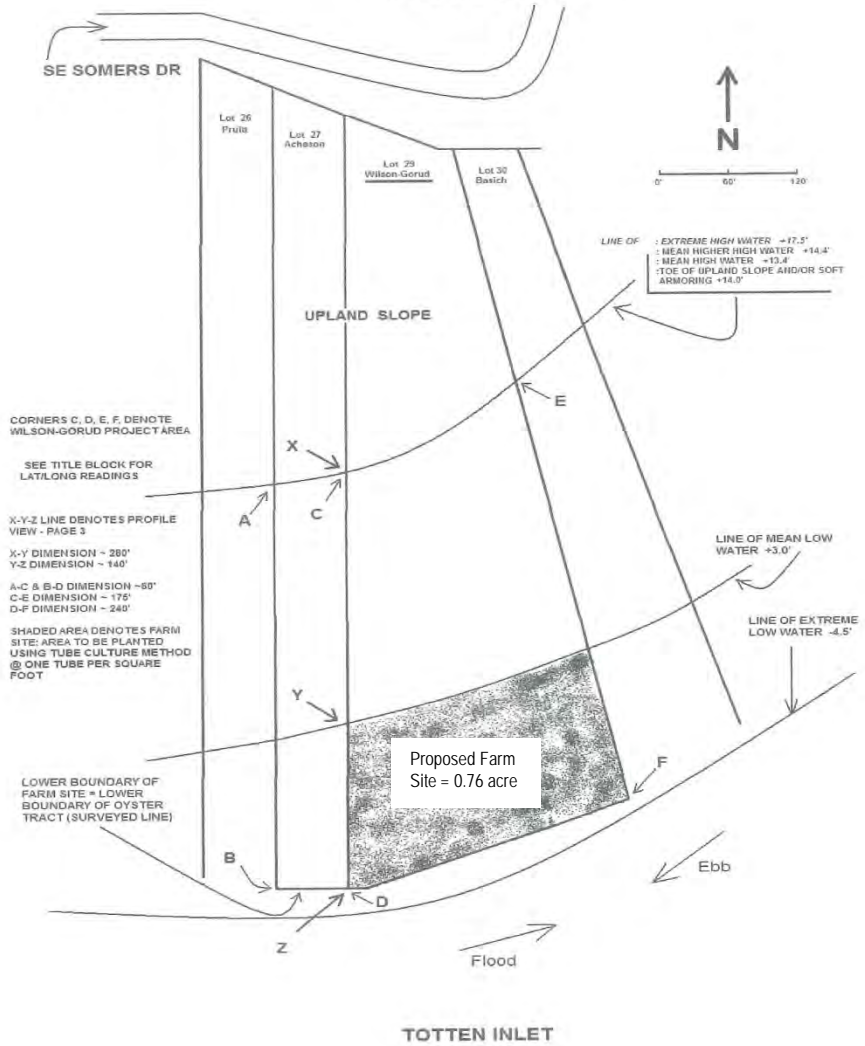
A-B: 23.4 mi
33 min

1. Depart Plum St SE toward Pear St SE 367 ft
2. Bear right onto E Bay Dr 0.5 mi
3. Take ramp for I-5 S 0.7 mi
4. At exit 104, take ramp right for US-101 North toward Port Angeles / Aberdeen 5.9 mi
5. Keep right to stay on US-101 N 8.9 mi
Pass Chevron on the right in 1.9 mi
6. Turn right onto SE Lynch Rd 6.4 mi
Pass 76 in 0.1 mi
7. Turn right onto SE Totten Shores Dr 0.2 mi
8. Turn left onto SE Somers Dr 0.7 mi
9. Arrive at 683 SE Somers Dr, Shelton, WA 98584
*The last intersection is SE Totten Shores Dr
If you reach SE Tottlyn Rd, you've gone too far.*

These directions are subject to the Microsoft® Service Agreement and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2010 NAVTEC™

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PLAN VIEW



CORNERS C, D, E, F, DENOTE WILSON-GORUD PROJECT AREA

SEE TITLE BLOCK FOR LAT/LONG READINGS

X-Y-Z LINE DENOTES PROFILE VIEW - PAGE 3

X-Y DIMENSION ~ 280'
 Y-Z DIMENSION ~ 140'

A-C & B-D DIMENSION ~ 80'
 C-E DIMENSION ~ 175'
 D-F DIMENSION ~ 240'

SHADED AREA DENOTES FARM SITE: AREA TO BE PLANTED USING TUBE CULTURE METHOD @ ONE TUBE PER SQUARE FOOT

LOWER BOUNDARY OF FARM SITE = LOWER BOUNDARY OF OYSTER TRACT (SURVEYED LINE)

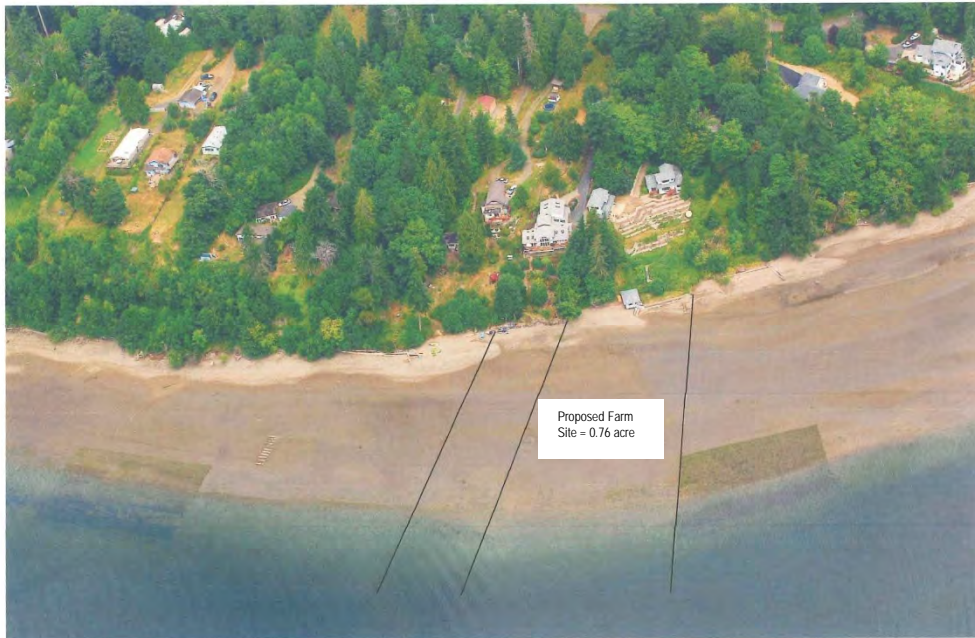
LINE OF
 - EXTREME HIGH WATER -17.5'
 - MEAN HIGHER HIGH WATER +14.4'
 - MEAN HIGH WATER +13.2'
 - TOE OF UPLAND SLOPE AND/OR SOFT ARMORING +14.0'

LINE OF MEAN LOW WATER +3.0'
 LINE OF EXTREME LOW WATER -4.5'

TOTTEN INLET

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PROJECT AREA PHOTO



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PROJECT AREA PHOTO



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SHORELINE PHOTO

