

WA Dairies Near Rivers & Streams

This is a summary description of dairies in Washington State that are near rivers and streams, as determined by a review of *County Maps with Dairy Locations from 2018 WSDA Agricultural Land Use with Dairies - ARC GIS Hub*.

Two of the dairies in this list have NPDES permits, one in Whatcom County and one in King County. Ecology's Permitting and Reporting Information System (PARIS) does not contain information on the lagoons for these facilities, so we do not know whether these structures have synthetic liners or not, and we do not know the lagoon depths. Ecology does not collect lagoon data on unpermitted dairies.

This quick screening yielded 51 dairies. Maps for those locations were copied from *Google Maps*. FEMA maps were used for flood plain data. Soil maps were obtained from the *NRCS Soil Survey* website. Dairy size was obtained from the *WA Geospatial Data Port - WA Dairies*. Data on contaminant levels in WA rivers and streams was obtained from Ecology's *Environmental Information Management System*.

Most of the identified dairies are in Whatcom County where rivers and streams abound. 29 of the dairies are in Whatcom, 6 in Skagit, 8 in Snohomish, 2 in King, 2 in Grays Harbor, 1 in Thurston, 1 in Lewis, and 2 in Yakima.

There are 19 large dairies (> 700 milk cows), 22 medium sized dairies (200 – 699 milk cows) and 10 small dairies (< 200 milk cows)

The average distance of lagoons to rivers and streams is 1,139 ft, but this is rather arbitrary. If we eliminate the Elma Dairy and the Bayside Dairy the average is 1,033 ft. The range is 100 ft to 4,000 ft.

- 100 – 500 ft = 19 dairies
- > 500 ft to 1,000 ft = 6 dairies
- > 1,000 ft to 1,500 ft = 12 dairies
- > 1,500 ft to 2,000 ft = 6 dairies
- > 2,000 ft to 2,500 ft = 6 dairies
- > 2,500 ft to 4,000 ft = 2 dairies

There are 13 dairies located in flood plains according to FEMA maps. There were no FEMA maps for the 6 dairies in Skagit County.

Ecology has documented water pollution for rivers and streams next to 28 of the dairies. Ecology's data on water pollution is mixed or unavailable for the other 23 dairies.

NRCS Soil Data showed:

- Poorly Drained Soil – 11 dairies
- Somewhat Poorly Drained Soil – 6 dairies
- Moderately Well Drained Soil – 15 dairies
- Moderately Well Drained/ Excessively Drained Soil – 1 dairy
- Moderately Well Drained/Poorly Drained Soil – 3 dairies
- Moderately Well Drained/Somewhat Poorly Drained Soil – 2 dairies
- Moderately Well Drained/Well Drained Soil – 1 dairy
- Well Drained Soil – 7 dairies
- Well Drained/ Somewhat Poorly Drained Soil – 1 dairy
- Somewhat Excessively Drained Soil – 2 dairies
- Excessively Drained Soil – 1 dairy
- Well Drained/Excessively Drained/Somewhat Poorly Drained Soil – 1 dairy

Depth to the water table ranged from 60 cm (24 inches) to > 200 cm (> 79 inches). 41 dairies had depth to groundwater less than 107 cm (42 inches). 10 dairies had depth to groundwater greater than 200 cm (79 inches).

FOTC believes there is a high likelihood of flow from manure lagoons to groundwater on dairies where the depth to groundwater is less than 42 inches.

Water flow from groundwater to surface water and from surface water to groundwater is well documented in the literature. But description of the flow at each of the 51 sites is beyond the scope of this overview.

FOTC believes there is increased risk of surface water pollution due to runoff on dairies where the soil is poorly drained. But proving this is beyond the scope of this overview.

Summary of Data

Facility Name	County	Permit #	Dairy Size	Distance Lagoon to SW	In Flood Plain?	Polluted Stream?	Depth to W. Table in cm	Drainage Class	Lagoon Depth
Fresh Breeze Organic Dairy	Whatcom		M	1,100	No	Yes	80	SPD	?
Van der Haak Farm	Whatcom		M	1,800	No	Yes	80 – 90	SPD	?
Steensma Dairy	Whatcom		M	1,800	No	Yes	80	SPD	?
Cedar Park Dairy	Whatcom		M	2,200	No	Yes	80 – 92	SPD	?
James Dairy	Whatcom		S	1,500	No	?	61 – 62	SPD/MWD	?
Dickinson Farms	Whatcom		S	450	Yes	Yes	> 200	WD	?
Riverside Dairy	Whatcom		M	200	Yes	Yes	> 200	MWD	?
Edelweiss Dairy	Whatcom		S	200	Yes	Yes	> 200	WD	?
Eagle Mill Farms & DJ Noon Challenge	Whatcom		L	1,400	Yes	Yes	92	MWD	?
Van Berkum & Sons	Whatcom		L	350	Yes	Yes	60	PD	?
Noteboom Farm	Whatcom		M	2,400	Yes	Yes	60	PD	?
Vande Hoef Dairy	Whatcom		L	1,600	Partially	Yes	> 200	WD	?
Dyna Moo	Whatcom		L	1,400	No	Yes	> 200	WD	?
Van Dellen Farms	Whatcom		M	2,500	No	Yes	92	MWD	?
Coldstream Farms	Whatcom		L	1,400	Yes	Yes	> 200	WD	?
Appel Brothers Dairy	Whatcom		M	2,200	No	Yes	> 200	MWD	?
Mendoza Dairy	Whatcom		M	200	No	?	60 – 92	PD/MWD	?
Hopewell Farms	Whatcom		S	1,200	No	?	60	PD	?
Pete De Jager Dairy	Whatcom		S	200	Yes	?	92	MWD	?
Udder Pride Dairy	Whatcom		M	1,400	No	?	92	MWD	?
TC Berkum Farm	Whatcom		M	2,100	No	?	92	MWD	?
JV Dairy	Whatcom	WAG994364	L	100	No	?	60 - 91	MWD/PD	?
Maarhuis Dairy	Whatcom		L	700	No	?	92	MWD	?
Hillview Dairy	Whatcom		M	900	No	?	60	PD	?

Vreugdenhil Farms	Whatcom		L	200	No	?	60	PD	?
Sundstrom Family Farms	Whatcom		S	800	No	Yes	80	SPD	?
Paradise Jerseys	Whatcom		M	500	No	Yes	45 - 61	MWD/PD	?
BJ Blok & Sons	Whatcom		L	800	No	?	> 200	WD	?
C & M Lagerwey	Whatcom		S	450	No	?	80	SPD	?
Baumgardner Dairy	Skagit		M	450	?	?	92	MWD/ED	?
High Valley Dairy	Skagit		L	200	?	Yes	30 - 54	MWD/SPD	?
Edensfall	Skagit		M	1,800	?	Yes	107	MWD	?
Bayside Dairy	Skagit		L	3,500	?	Yes	60	PD	?
Harmony Dairy	Skagit		L	1,800	?	Yes	35 - 60	PD	?
River Bend Dairy	Skagit		M	750	?	Yes	35 - 70	PD	?
SDI Farms #2	Snohomish		S	2,000	No	Yes	92	MWD	?
Normanna Farm	Snohomish		S	150	No	Yes	92	MWD	?
Natural Milk	Snohomish		L	1,500	No	Yes	90	PD	?
Natural Milk Farms 2	Snohomish		M	300	No	Yes	90 - 92	WD/MWD	?
Frohning Dairy	Snohomish		S	1,000	Yes	?	92	MWD	?
John Deck Dairy	Snohomish		M	1,200	Yes	?	92	MWD	?
Werkhoven Dairy	Snohomish		L	1,200	Yes	?	92	MWD	?
People's Creek Dairy	Snohomish		M	300	No	?	90 - 92	PD	?
Green Acres	King		M	150	Yes	?	92	ED	?
Keller Dairy	King	WAG994453	L	400	Yes	?	107 - 137	WD	?
Jose Torres Dairy	Grays Harbor		M	1,200	No	?	60	MWD	?
Elma Dairy	Grays Harbor		L	4,000	No	?	> 200	SED	?
James Road Dairy	Thurston		L	100	No	?	> 200	SED	?
Osborn Dairy	Lewis		M	350	No	?	69 - 92	PD	?
Double P Dairy	Yakima		L	2,500	No	Yes	76 - > 200	WD/SPD	?
Riverview	Yakima		L	1,200	No	Yes	92 - > 200	WD/ED/SPD	?

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Sources of Data with Links

County Maps with Dairy Locations from 2018 WSDA Agricultural Land Use with Dairies - ARC GIS Hub, at <https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=46.515663%2C-120.387262%2C12.00>

Aerial maps of dairies from Google Maps at <https://www.google.com/maps>

FEMA maps of flood plains from <https://msc.fema.gov/portal/search?AddressQuery=Snohomish%20County%20WA#searchresultsanchor>

Ecology Water Quality Data from <https://apps.ecology.wa.gov/eim/search/Eim/EIMSearchResults.aspx?ResultType=EIMTabs&LocationWRIAs=1>

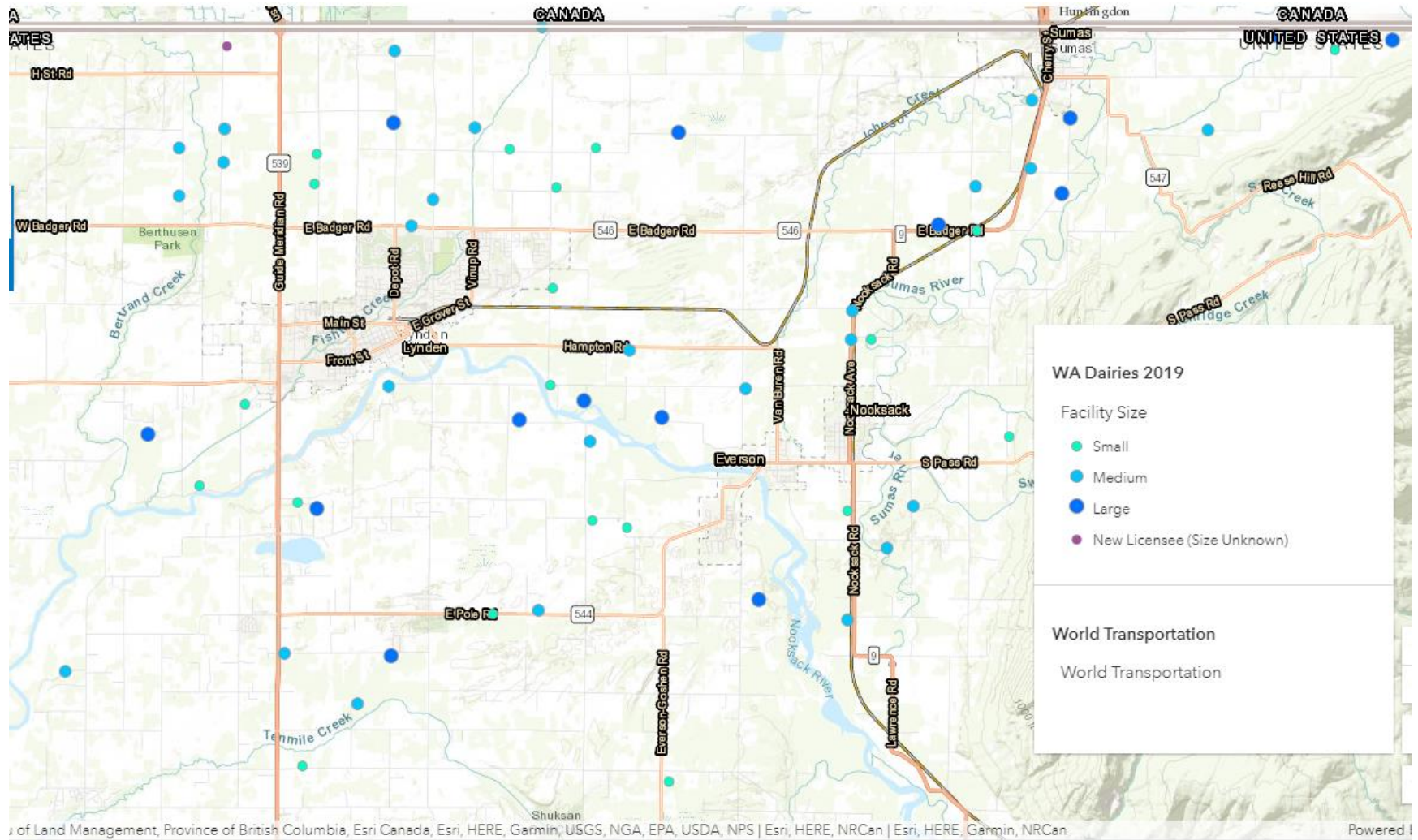
WA Geospatial Data Port – WA Dairies from https://geo.wa.gov/datasets/26add7da921d4aa68ccb50ce191c6182_0/explore?location=47.458863%2C-119.576737%2C7.00&showTable=true

Natural Resources Conservation Service Soil Survey from <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

WA Ecology Permitting and Reporting Information System from <https://apps.ecology.wa.gov/paris/PermitLookup.aspx>

Whatcom County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>

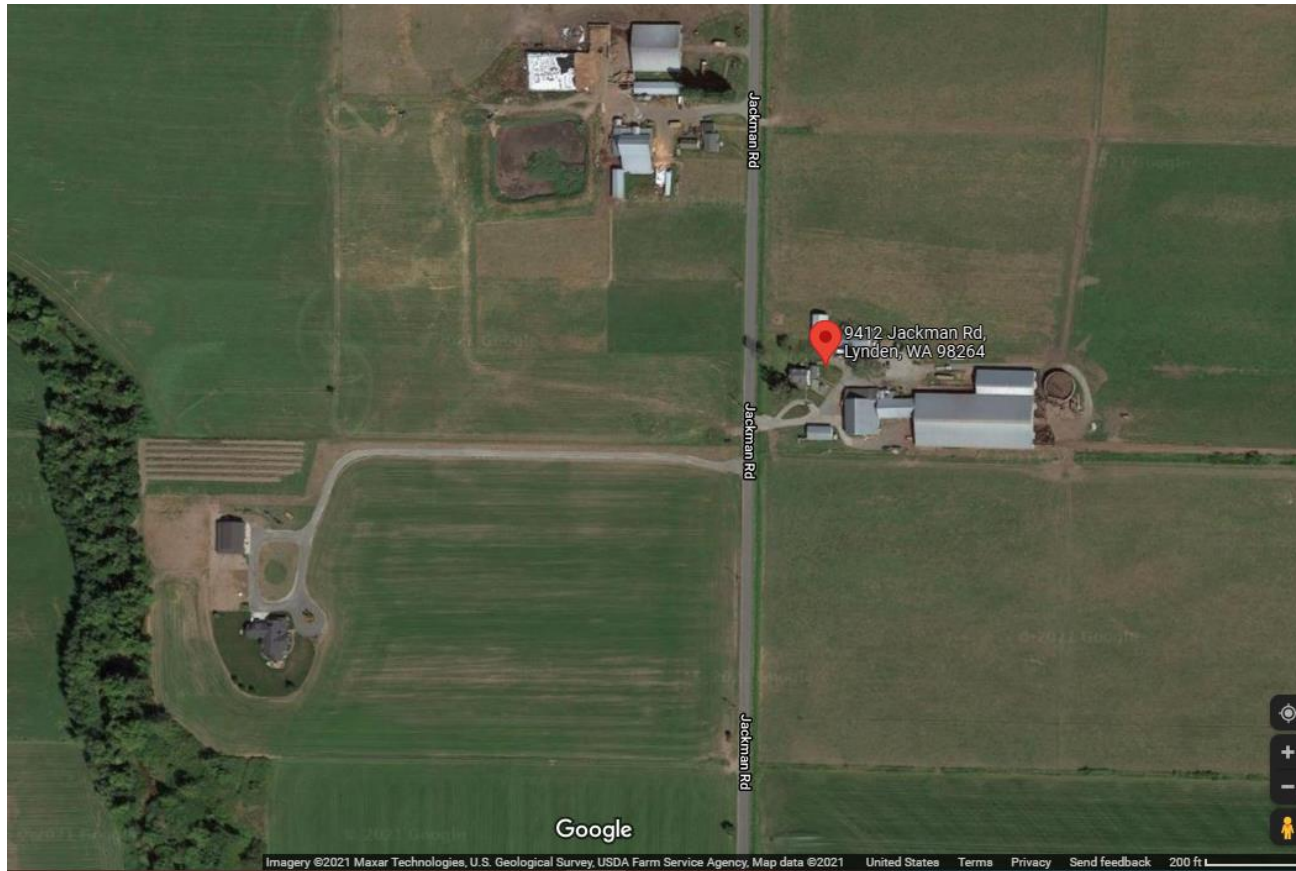


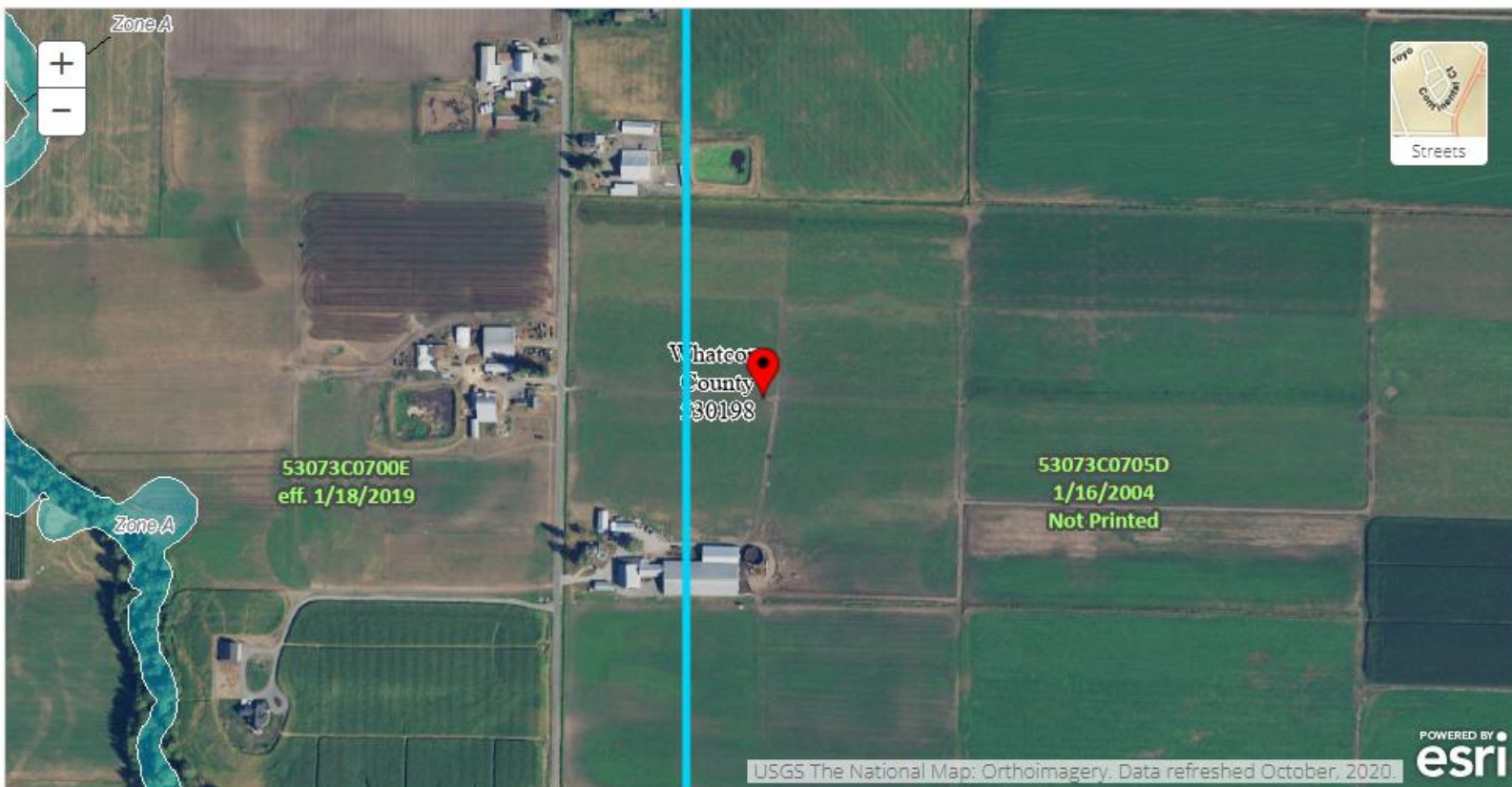
Bertrand Creek

Fresh Breeze Organic Dairy

9412 Jackman Road, Lynden WA

≈ 1,100 feet from lagoon to Bertrand Creek





- PIN**
 - Approximate location based on user input and does not represent an authoritative property location
- MAP PANELS**
 - Selected FloodMap Boundary
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- OTHER AREAS**
 - Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - Otherwise Protected Area
 - Coastal Barrier Resource System Area

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth
 - Regulatory Floodway Zone AE, AO, AH, VE, AR
- OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D

- OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall



Depth to Water Table: 80 cm

- Soil Rating Polygons
 - 0 - 25
 - 25 - 50
 - 50 - 100
 - 100 - 150
 - 150 - 200
 - > 200
 - Not rated or not available



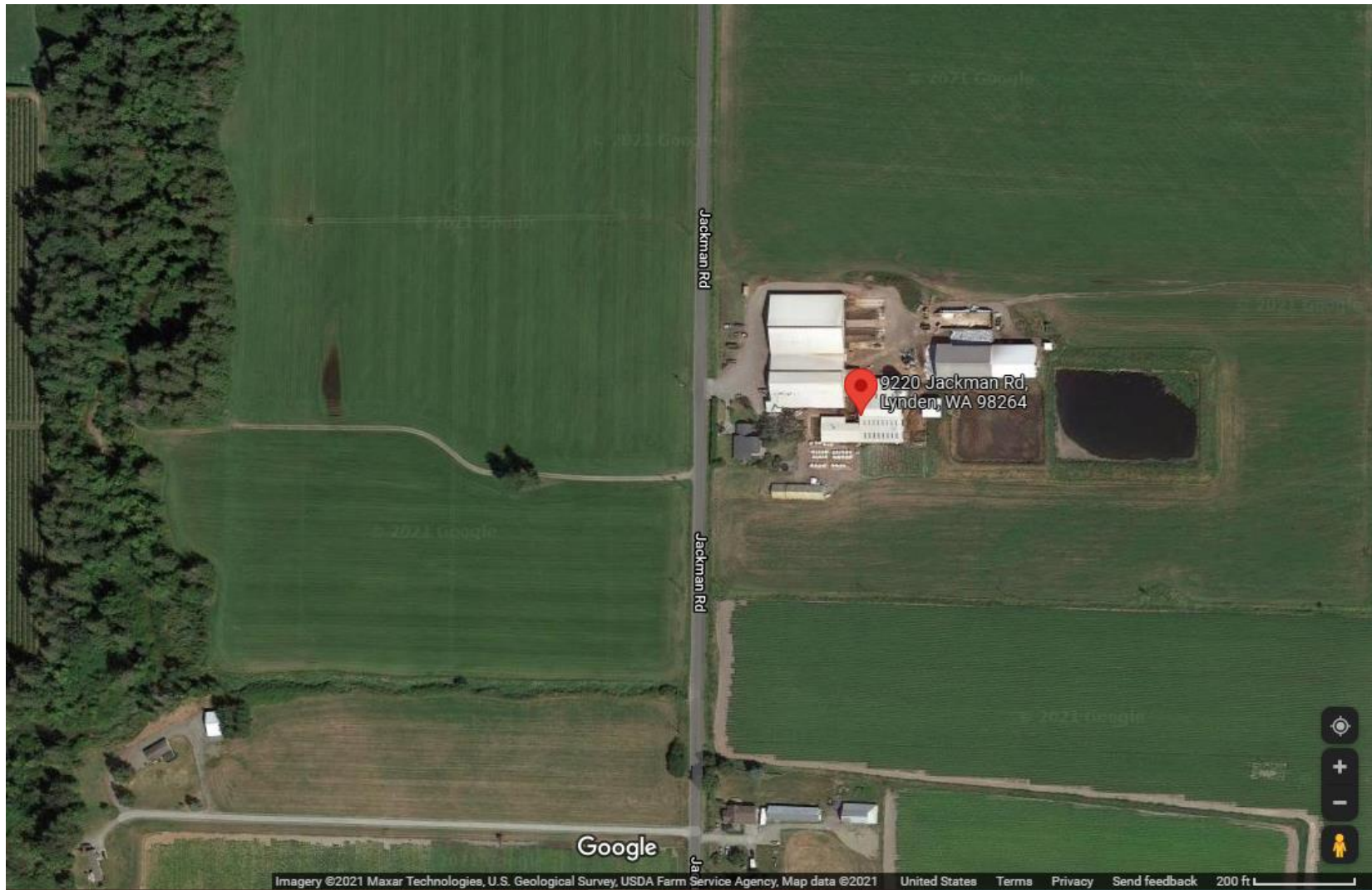
Drainage Class: Somewhat Poorly Drained

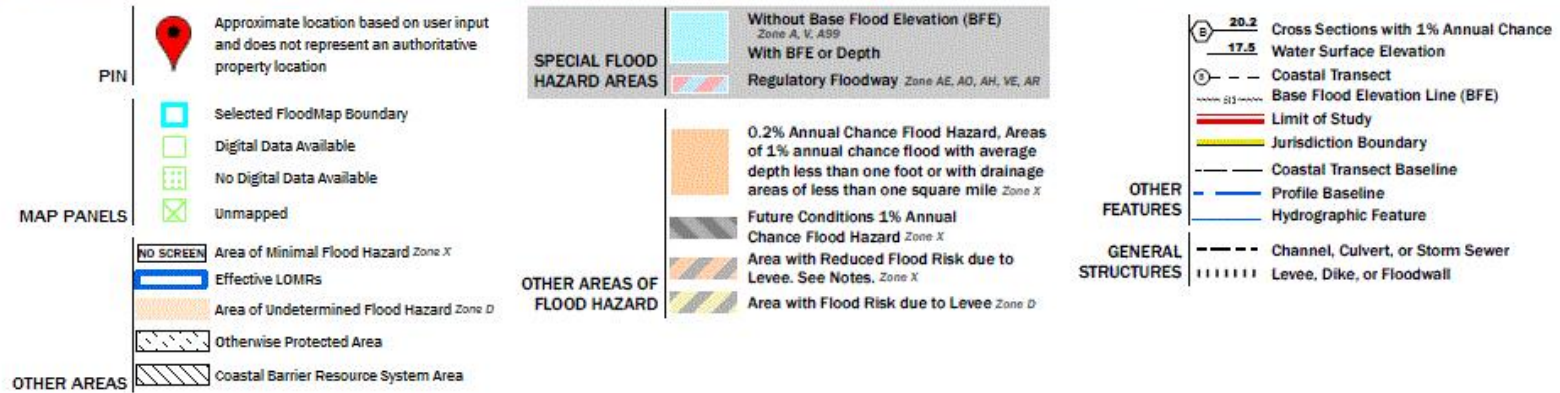
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Van der Haak Farm

9220 Jackman Road, Lynden WA

≈ 1,800 feet from Lagoon to Bertrand Creek

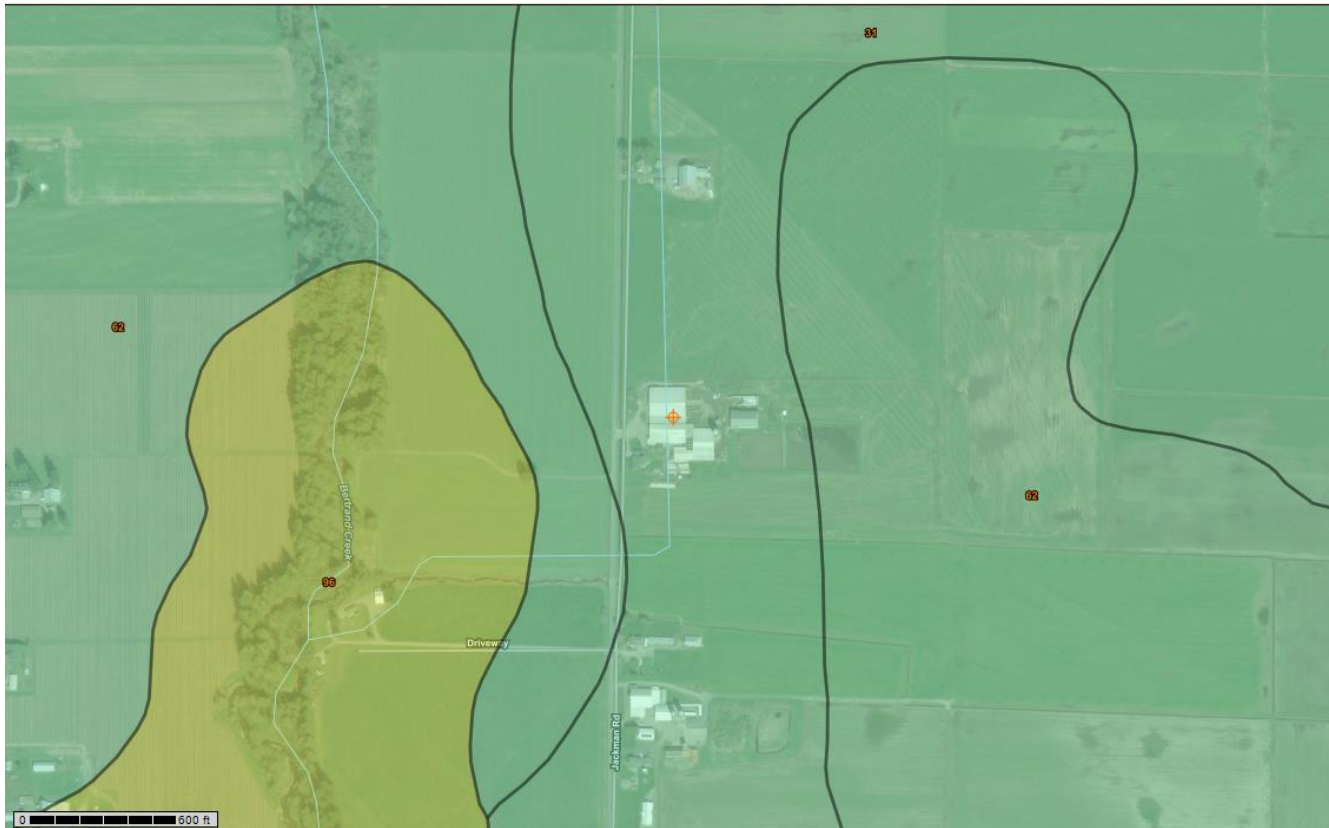






Depth to Water Table: 80 - 90 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



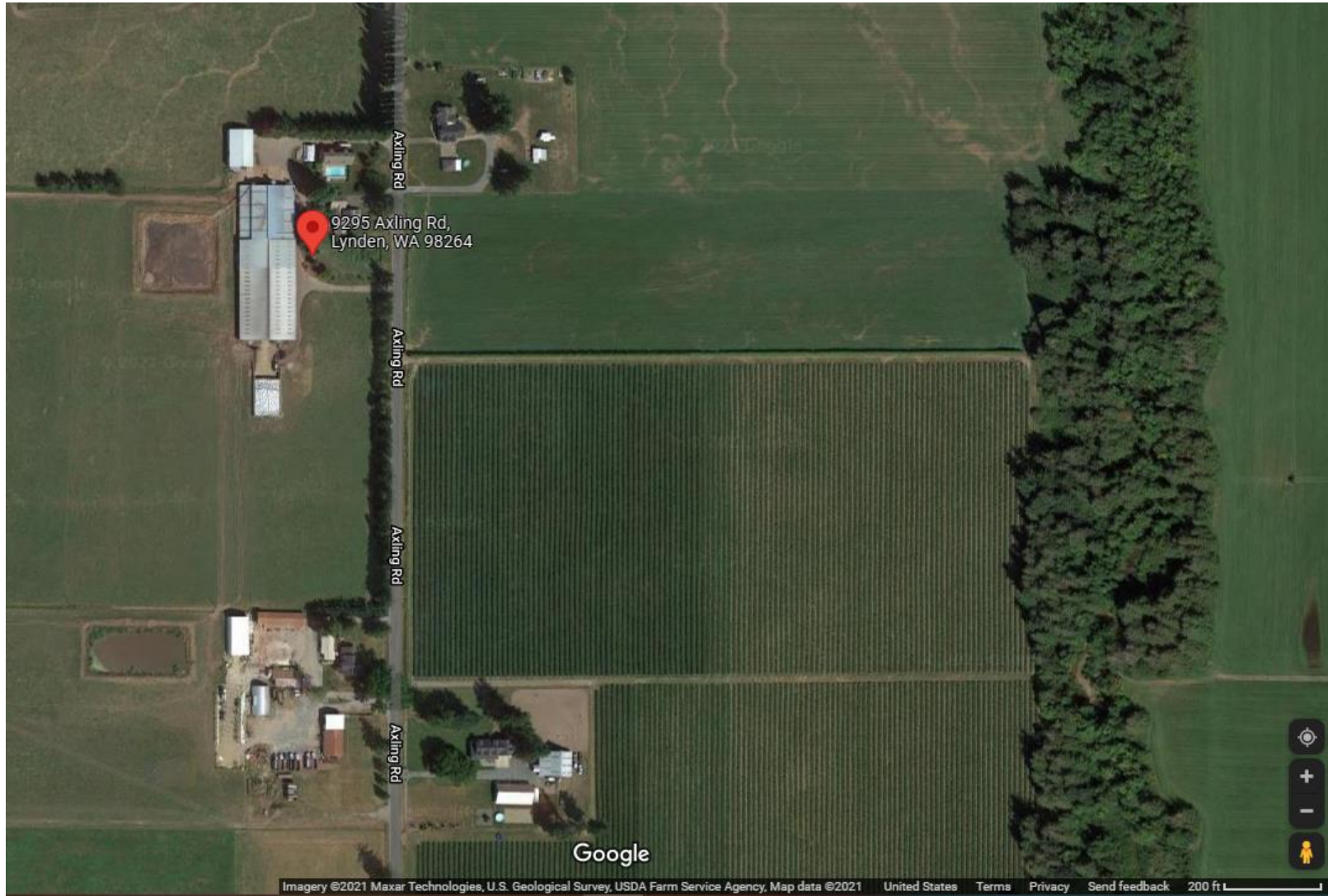
Drainage Class: Somewhat Poorly Drained

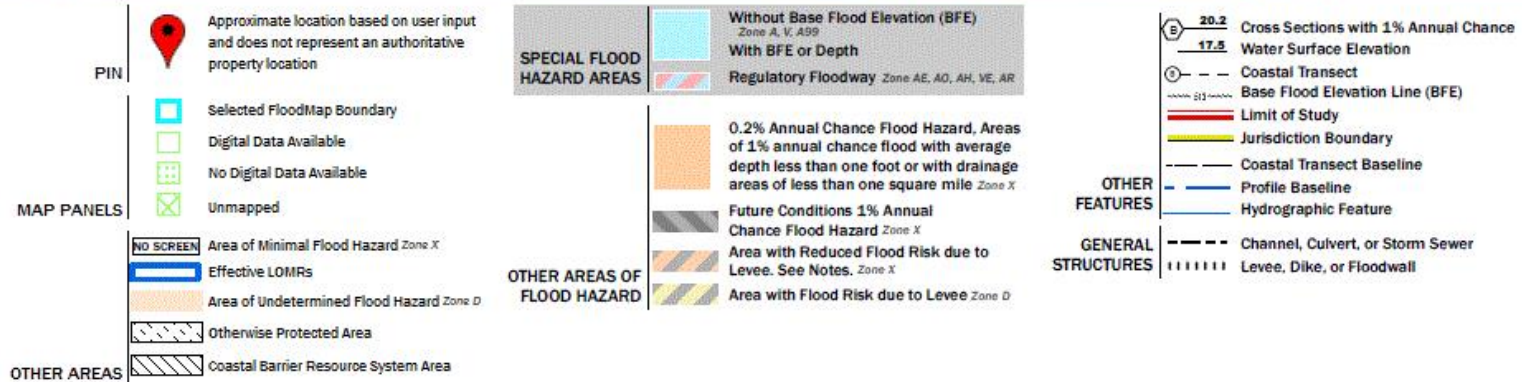
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Steensma Dairy

9295 Axling Road, Lynden WA

≈ 1,800 feet from lagoon to Bertrand Creek

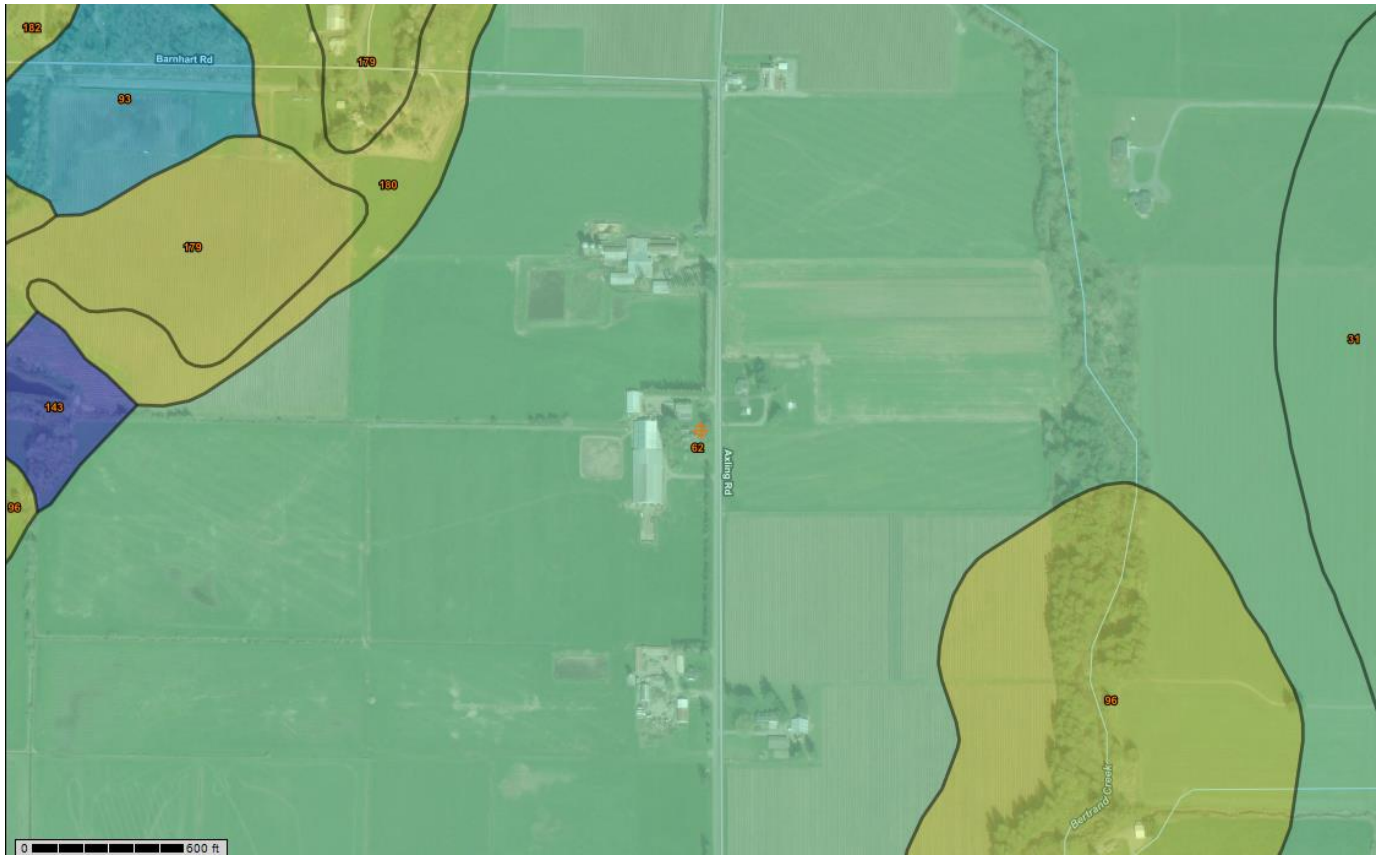






Depth to Water Table: 80 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Somewhat Poorly Drained

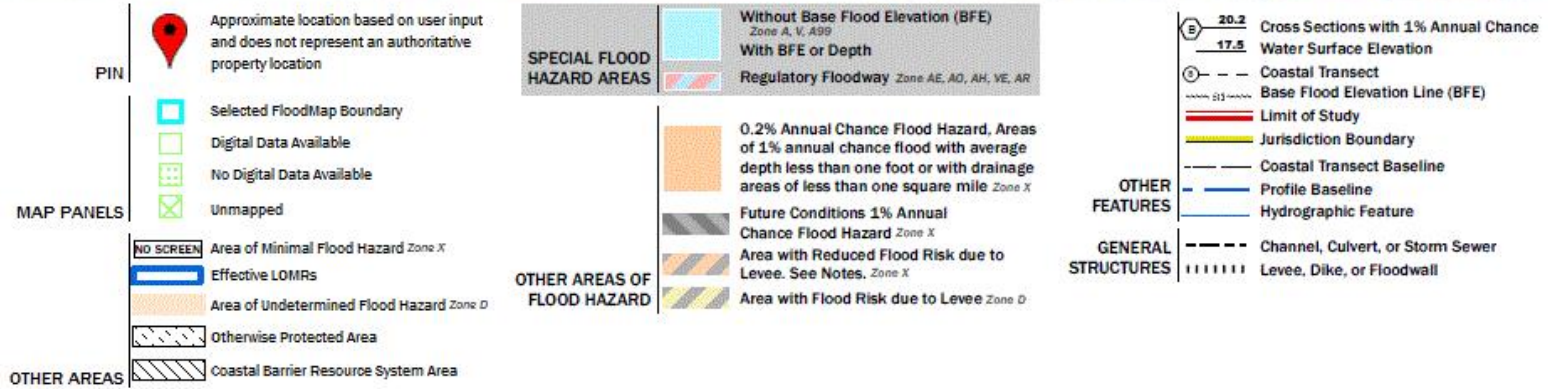
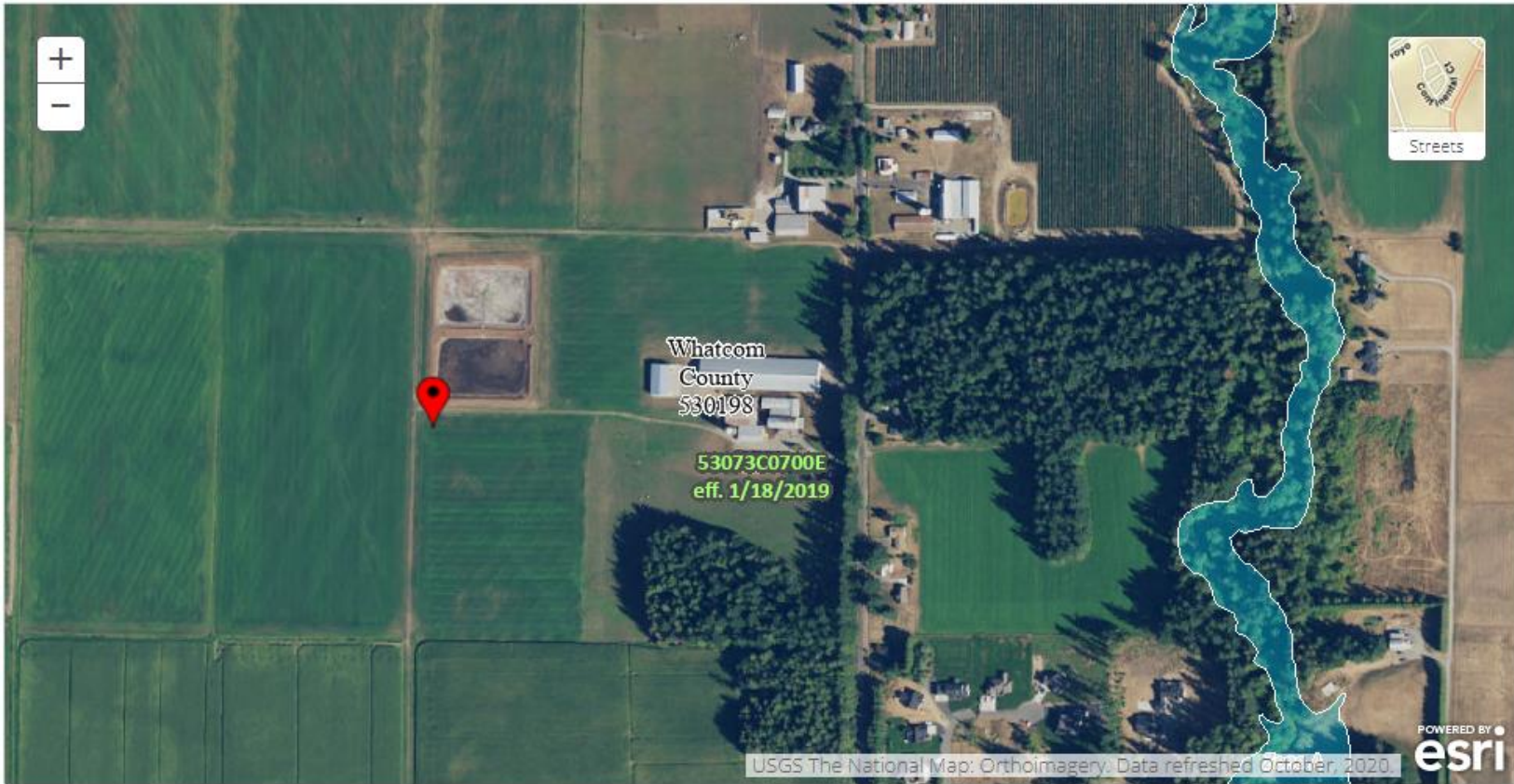
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Cedar Park Dairy LLC

9041 Axling Road, Lynden WA

≈ 2,200 feet from lagoons to Bertrand Creek







Depth to Water Table: 80 – 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Somewhat Poorly Drained

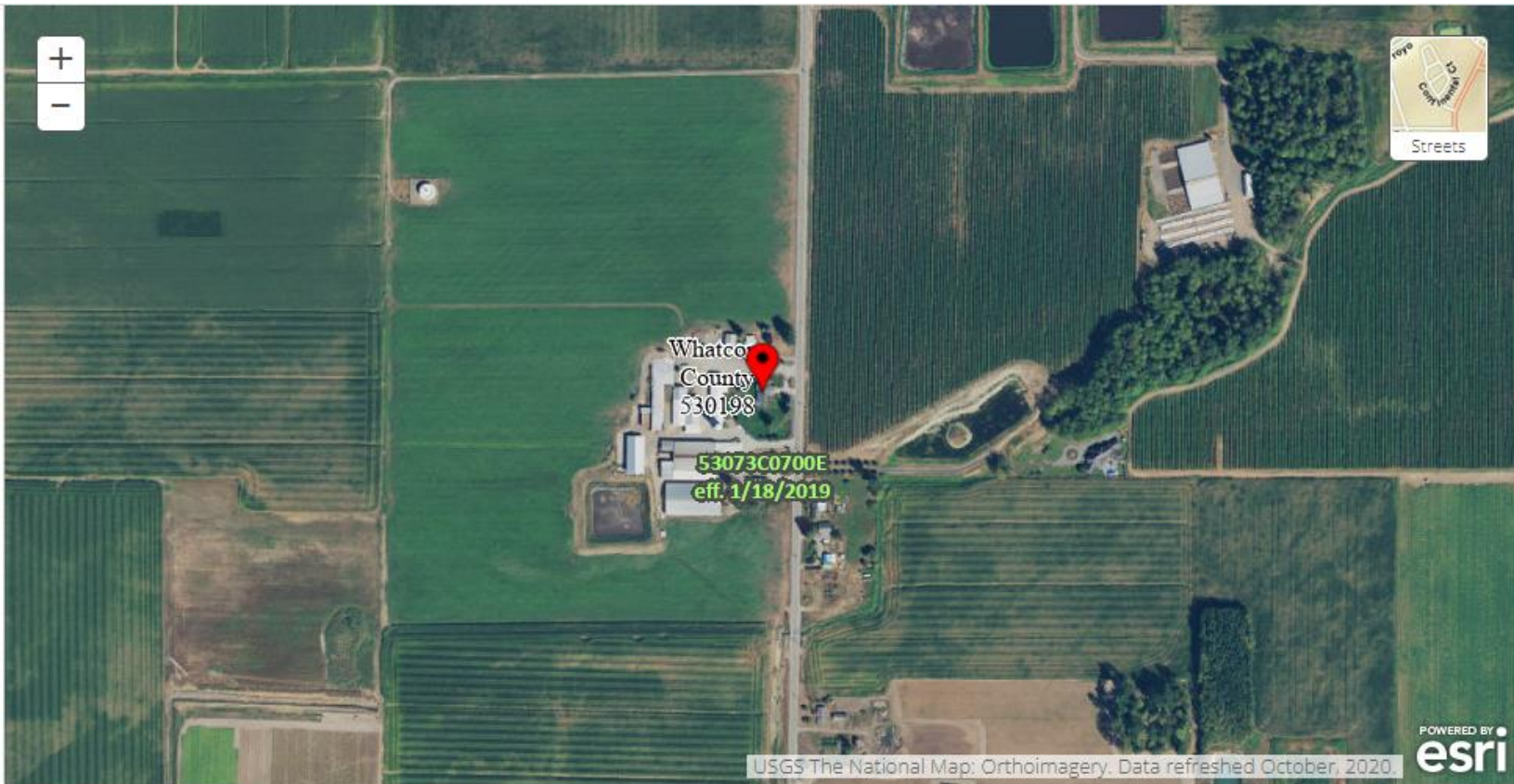
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

South Fork Dakota Creek

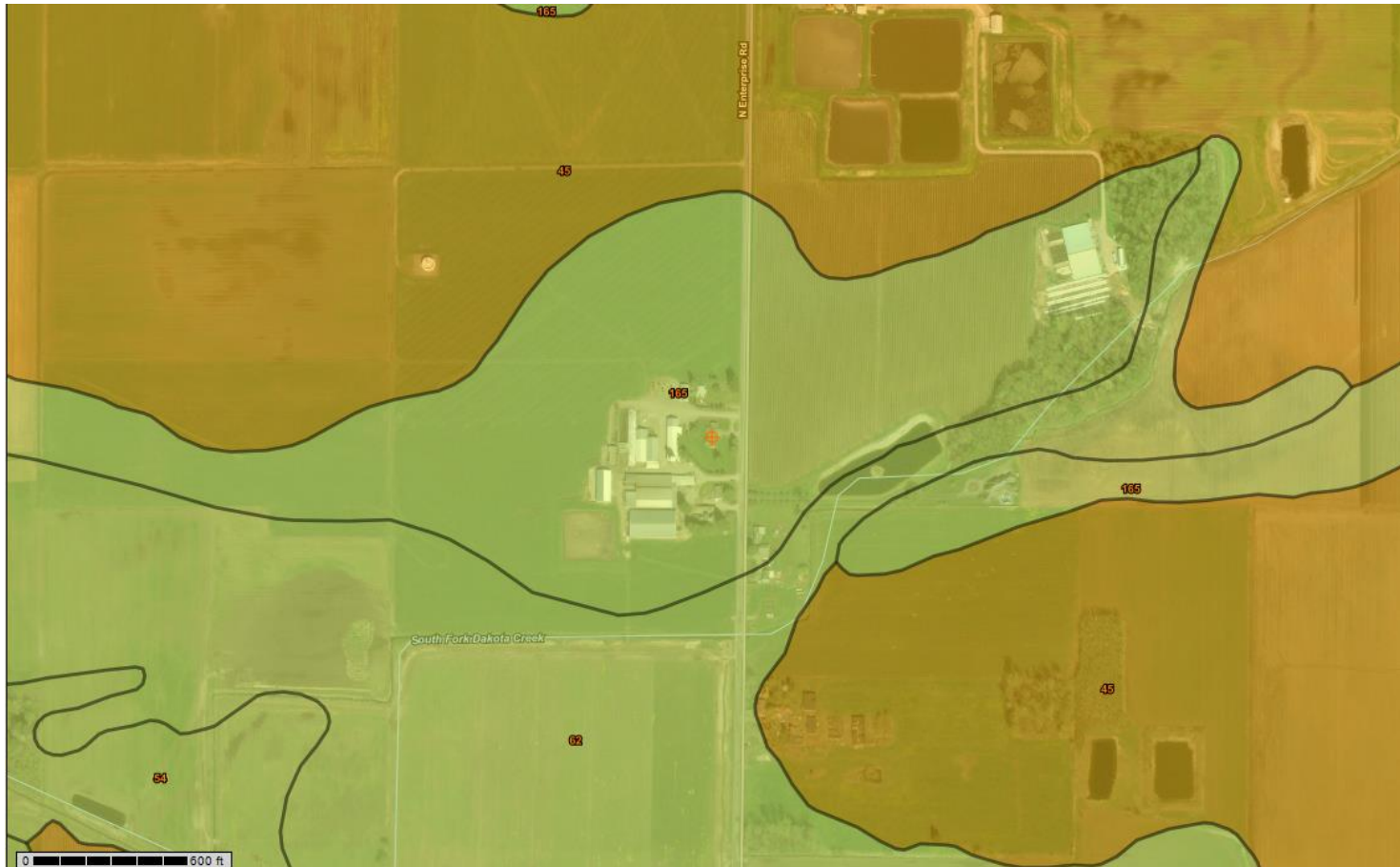
James Dairy

8305 N Enterprise Rd, Custer WA \approx 1,500 feet from lagoon to South Fork Dakota Creek



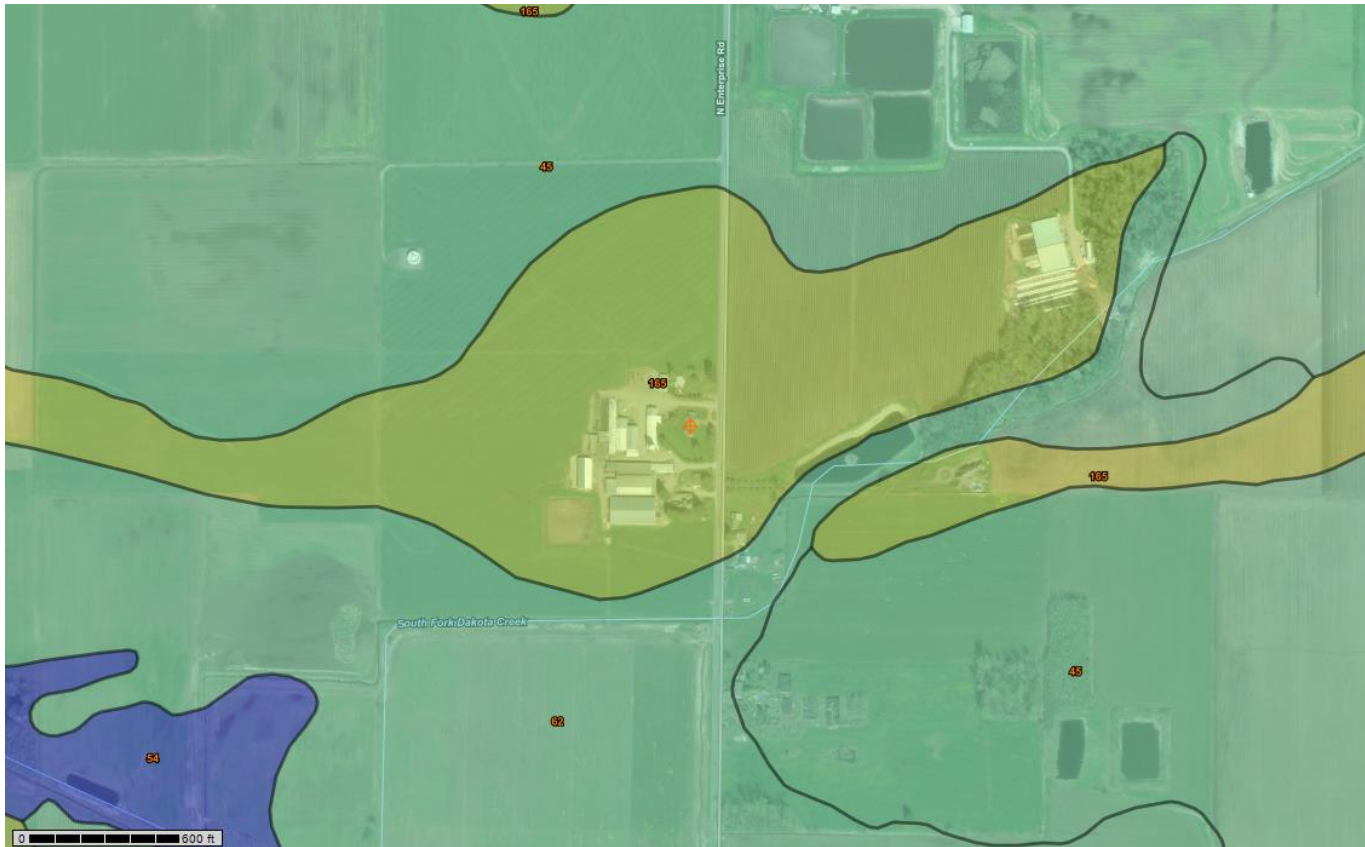


PIN	Approximate location based on user input and does not represent an authoritative property location	SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99	With BFE or Depth	Regulatory Floodway Zone AE, AO, AH, VE, AR	OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X	Future Conditions 1% Annual Chance Flood Hazard Zone X	Area with Reduced Flood Risk due to Levee. See Notes. Zone X	Area with Flood Risk due to Levee Zone D	OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS	Selected FloodMap Boundary	Digital Data Available	No Digital Data Available	Unmapped	GENERAL STRUCTURES	Coastal Transect	Base Flood Elevation Line (BFE)	Limit of Study	Jurisdiction Boundary	Coastal Transect Baseline	Profile Baseline	Hydrographic Feature
OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard Zone X	Effective LOMRs	Area of Undetermined Flood Hazard Zone D	Otherwise Protected Area	Coastal Barrier Resource System Area	Channel, Culvert, or Storm Sewer	Levee, Dike, or Floodwall					



Depth to Water Table: 61 - 62 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Somewhat Poorly Drained/Moderately Well Drained

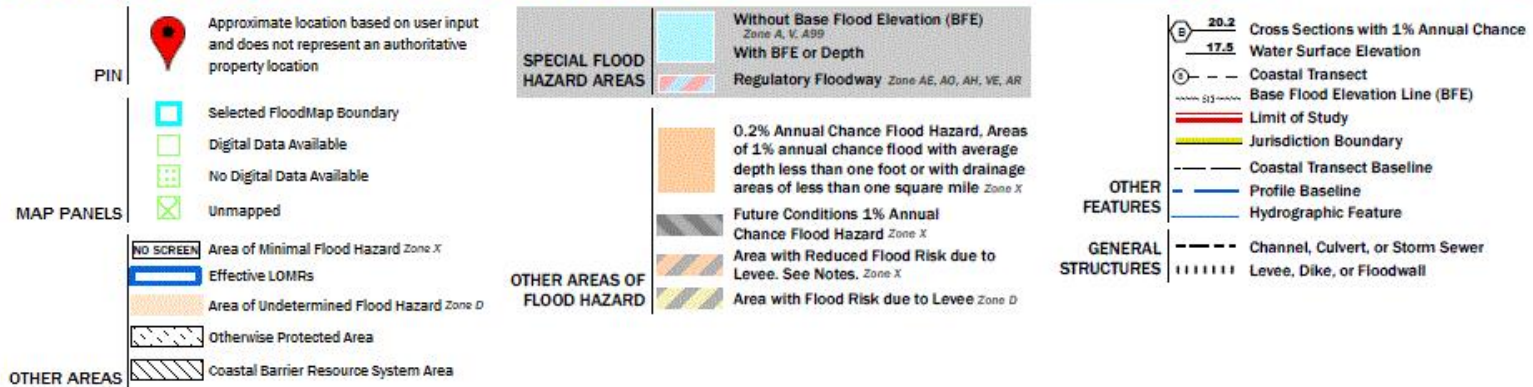
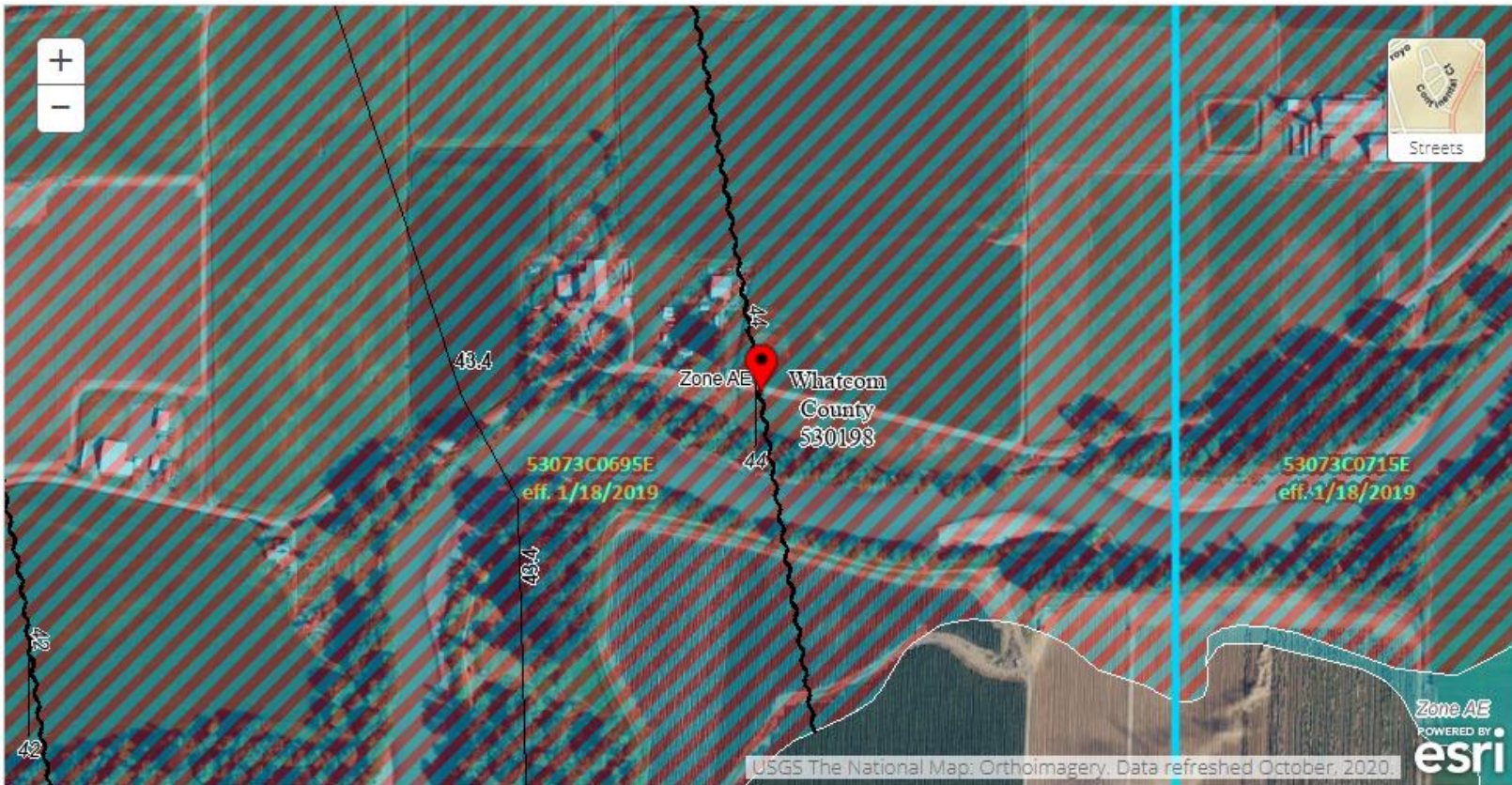
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Nooksack River

Dickinson Farms

517 River Road, Lynden WA \approx 450 feet from lagoon to Nooksack River, in flood plain

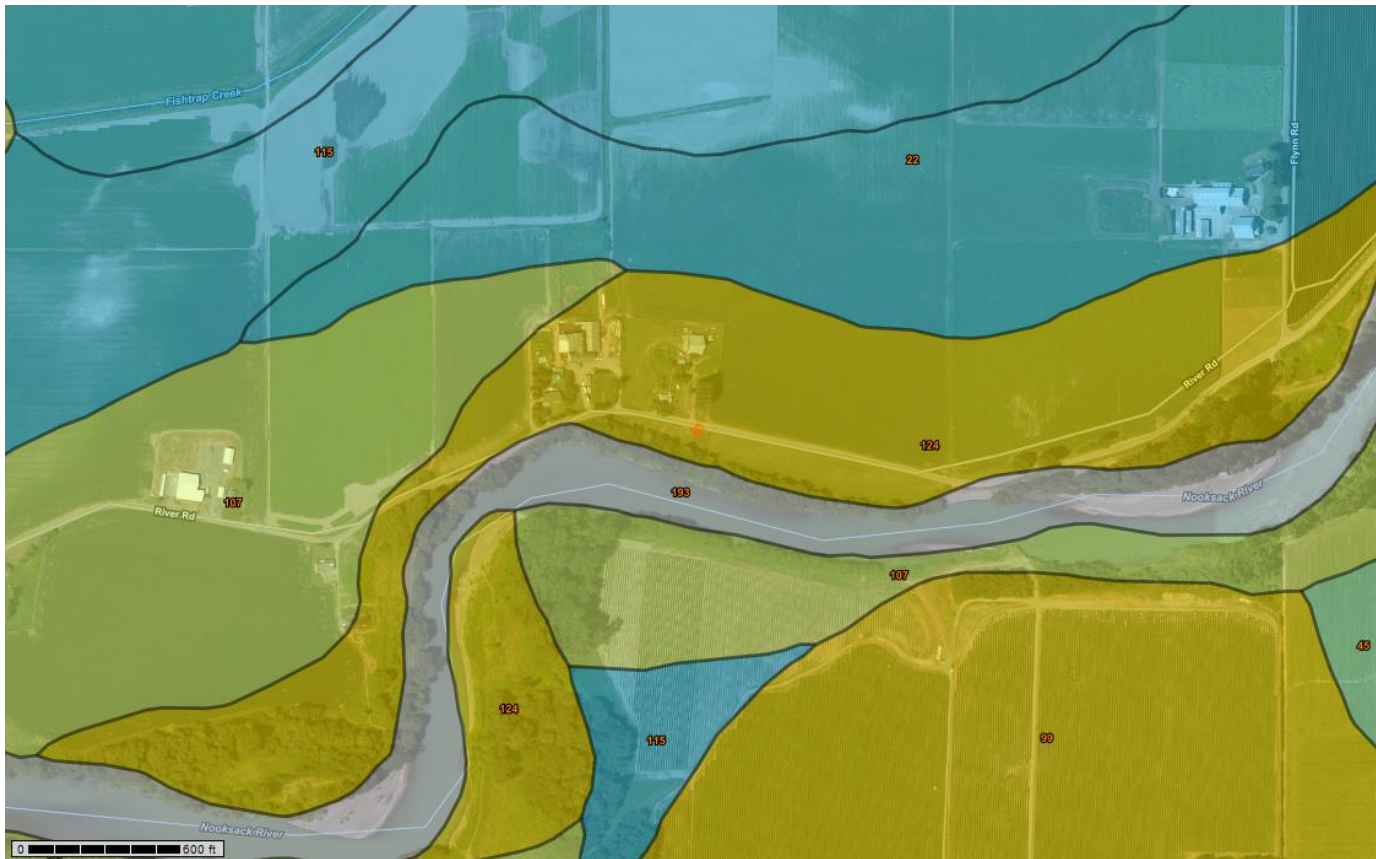






Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained

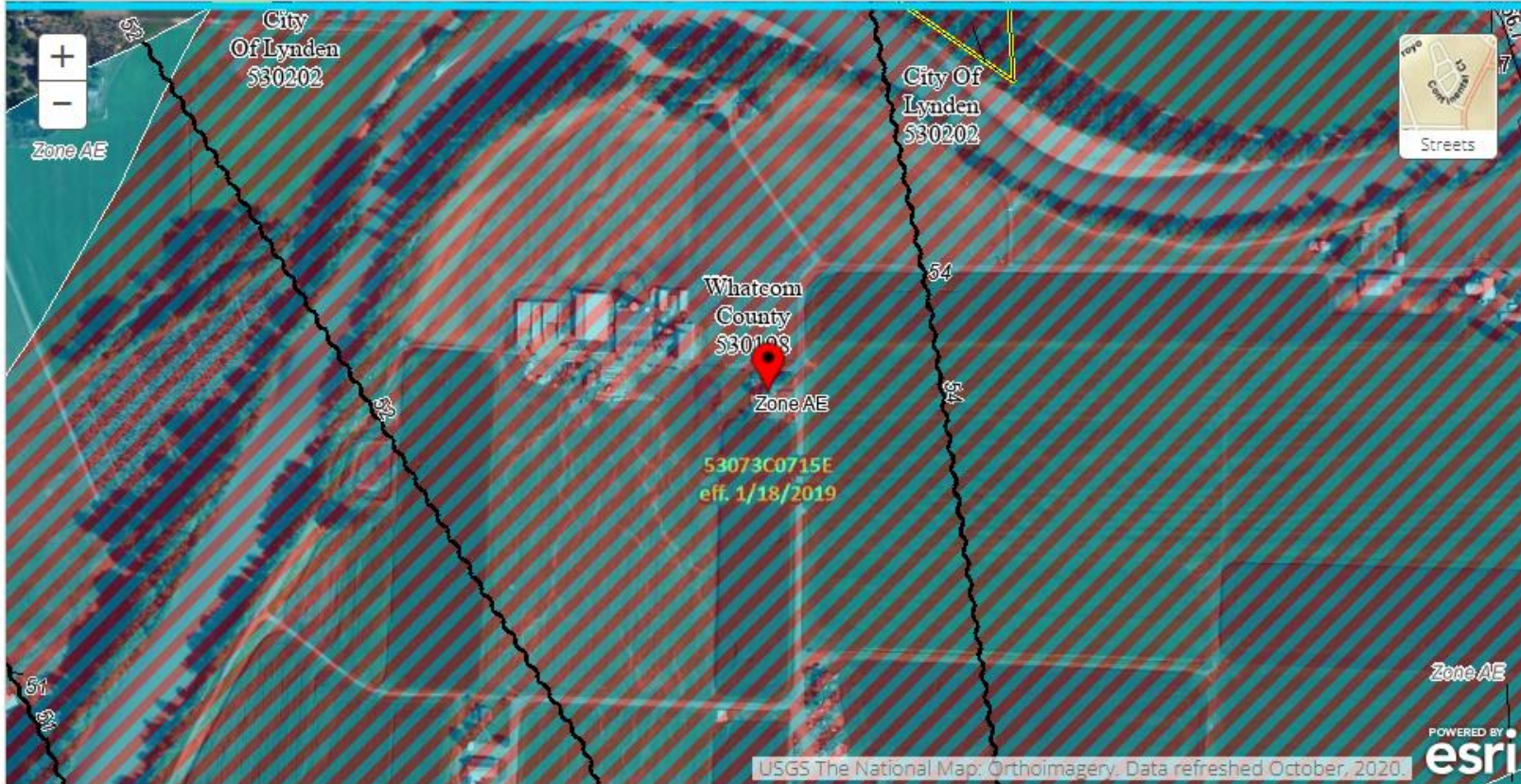
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Riverside Dairy

670 Polinder Road, Lynden WA

≈ 200 feet from the lagoon to the river, in flood plain





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location 	<p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped 	<p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, AB9 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR 	<p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



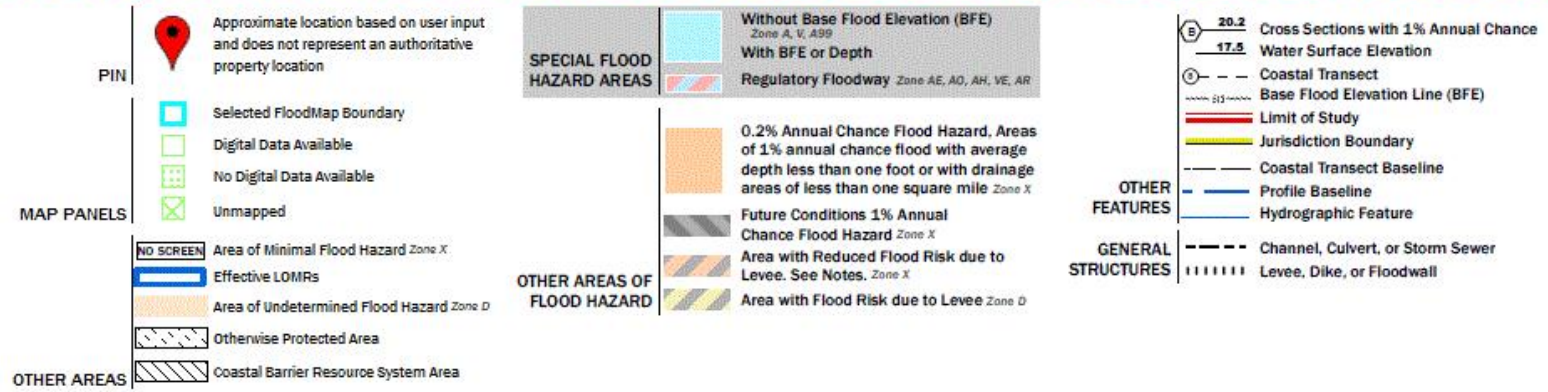
Drainage Class: Moderately Well Drained

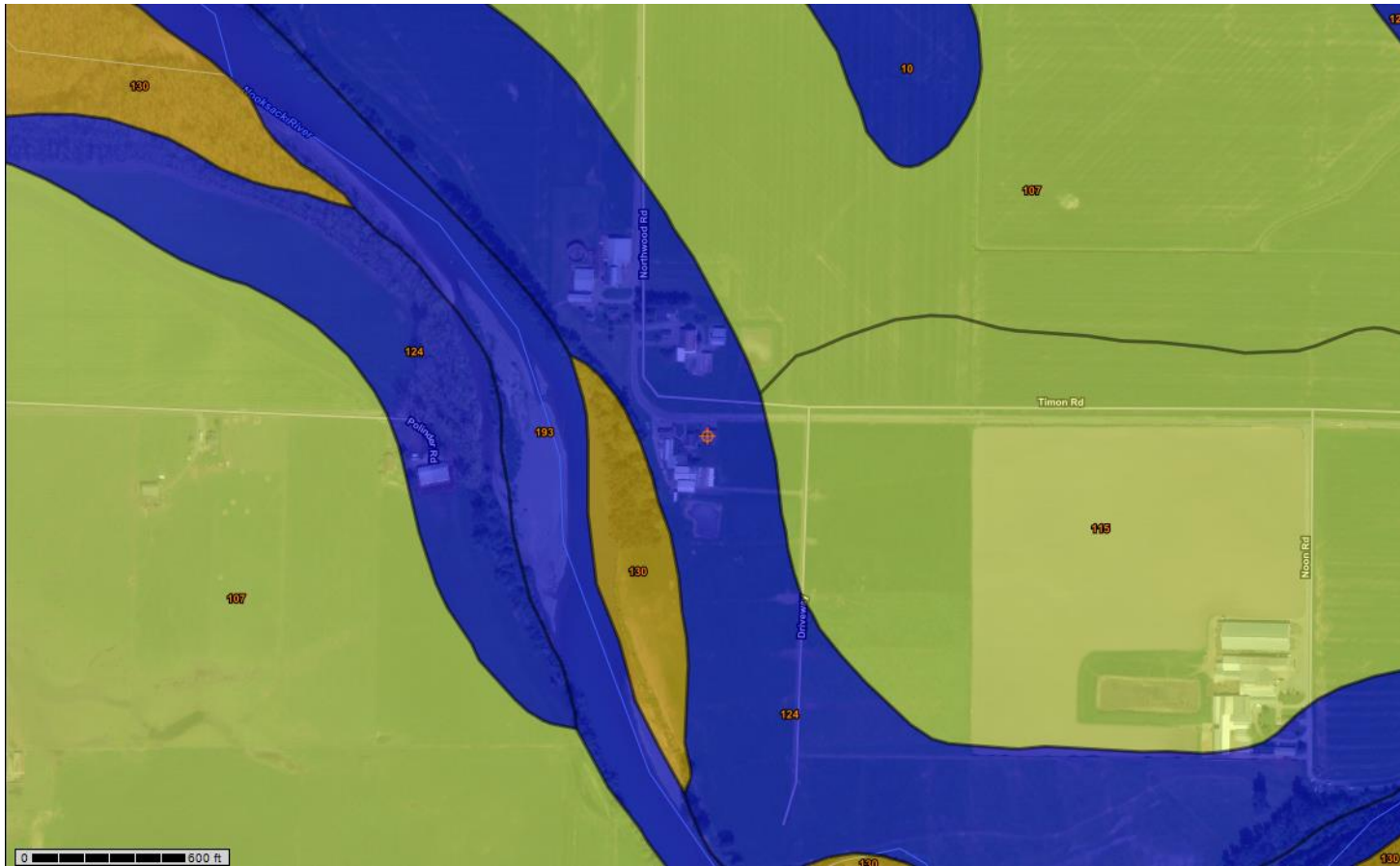
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Edelweiss Dairy

1519 Timon Road, Everson WA ≈ 200 feet from the lagoon to the Nooksack River, in flood plain

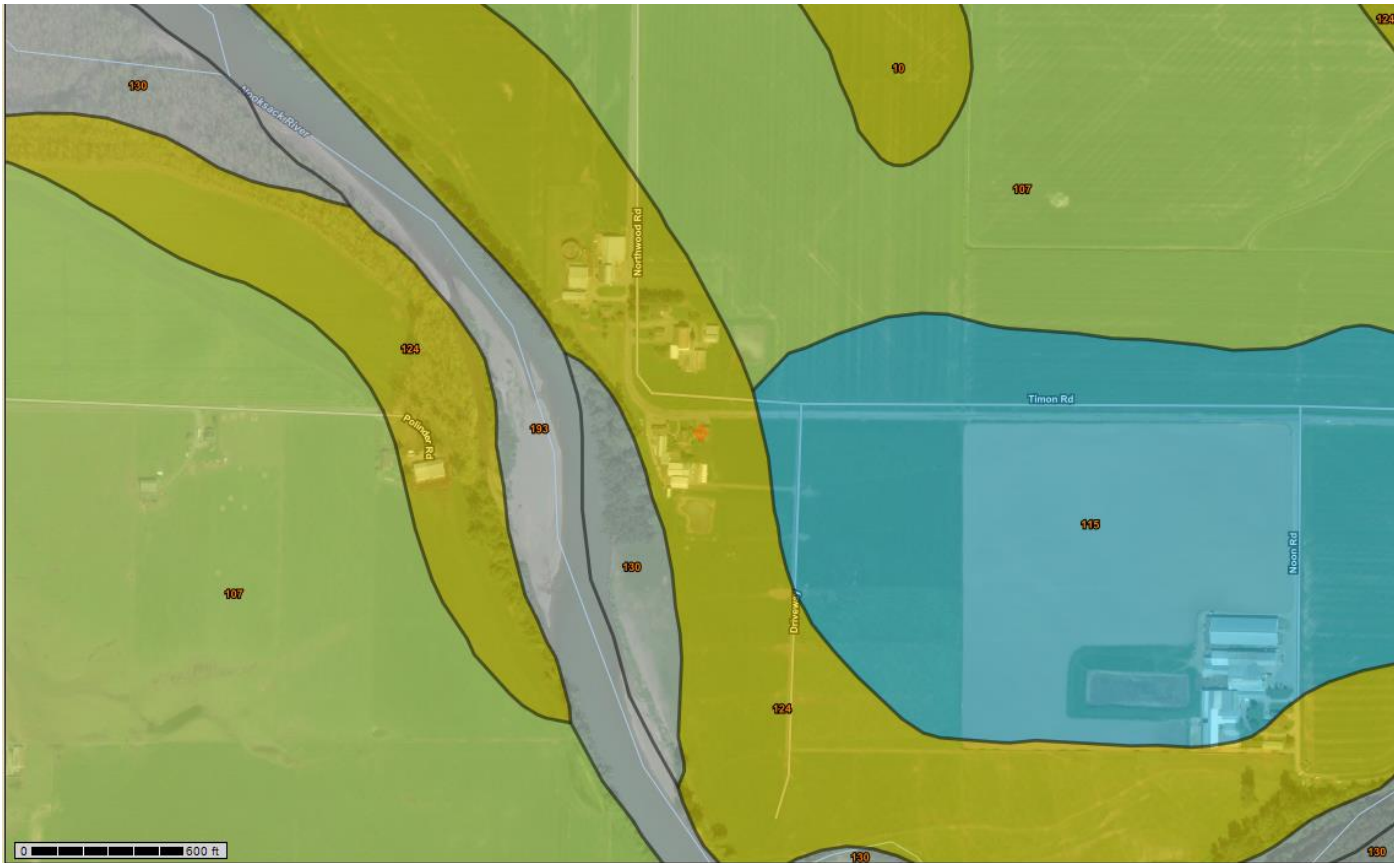






Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



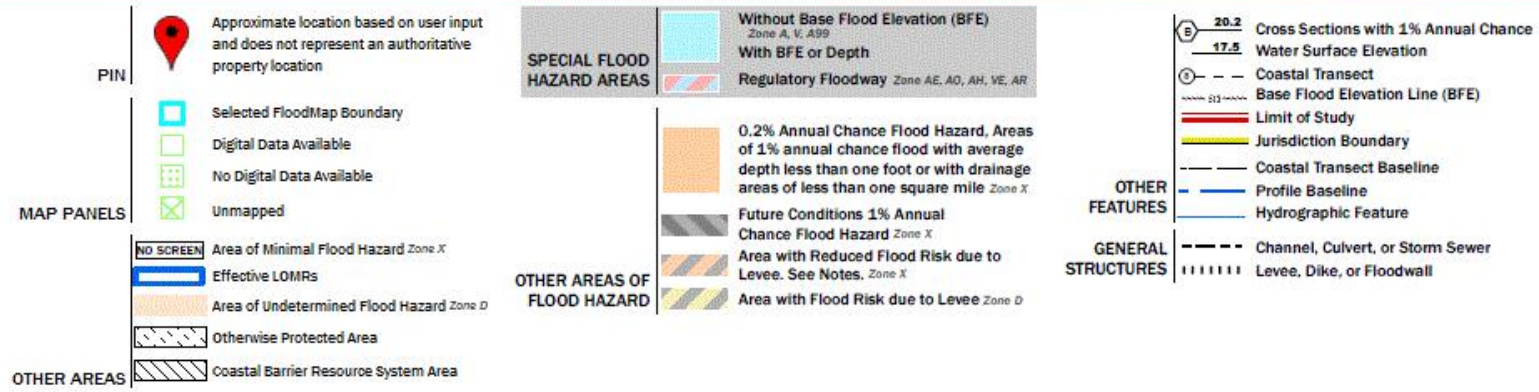
Drainage Class: Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Eagle Mill Farms and DJ Noon Challenge

1364 Abbott Road, Lynden WA \approx 1,400 feet from the lagoons to the Nooksack River, in flood plain

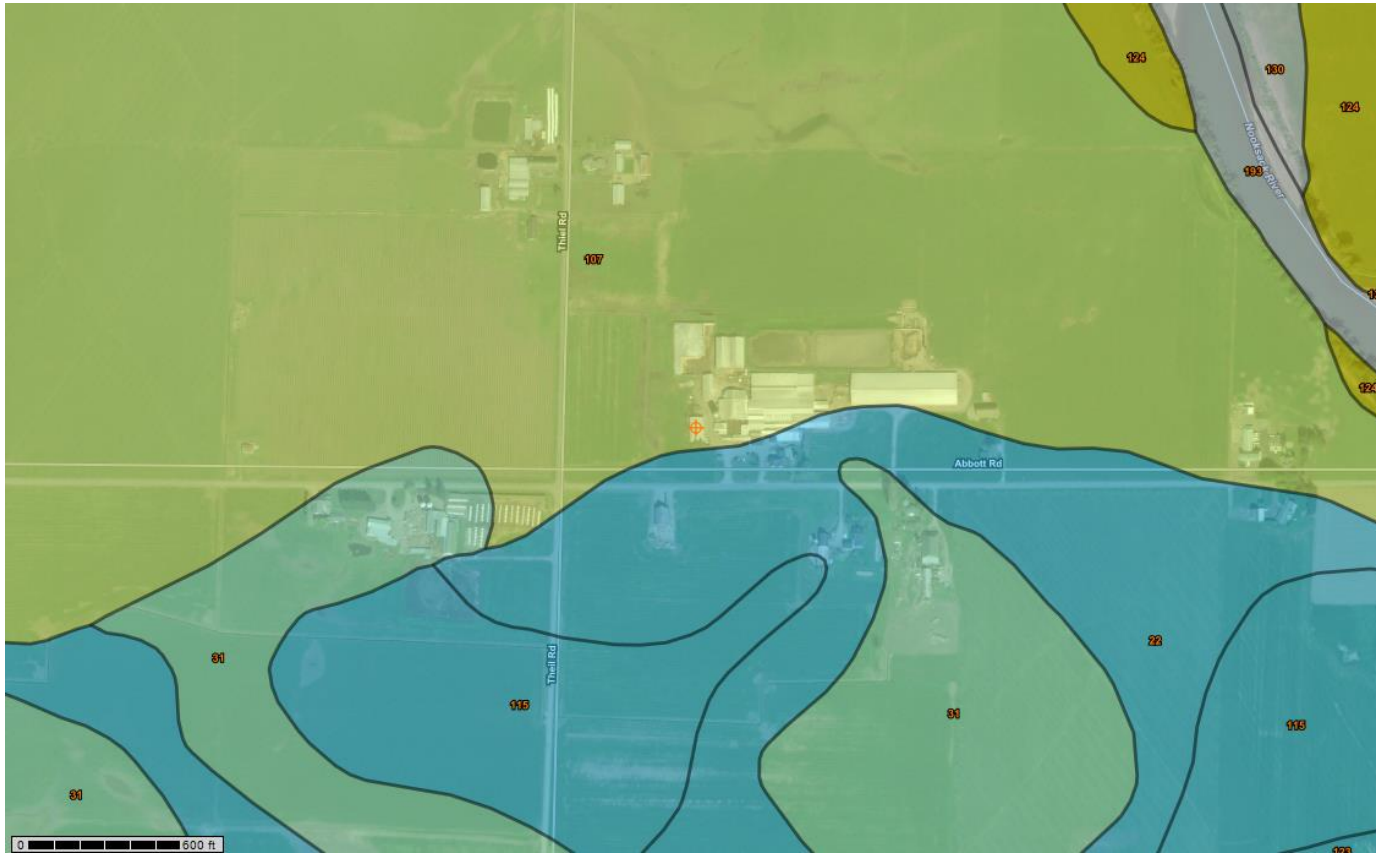






Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

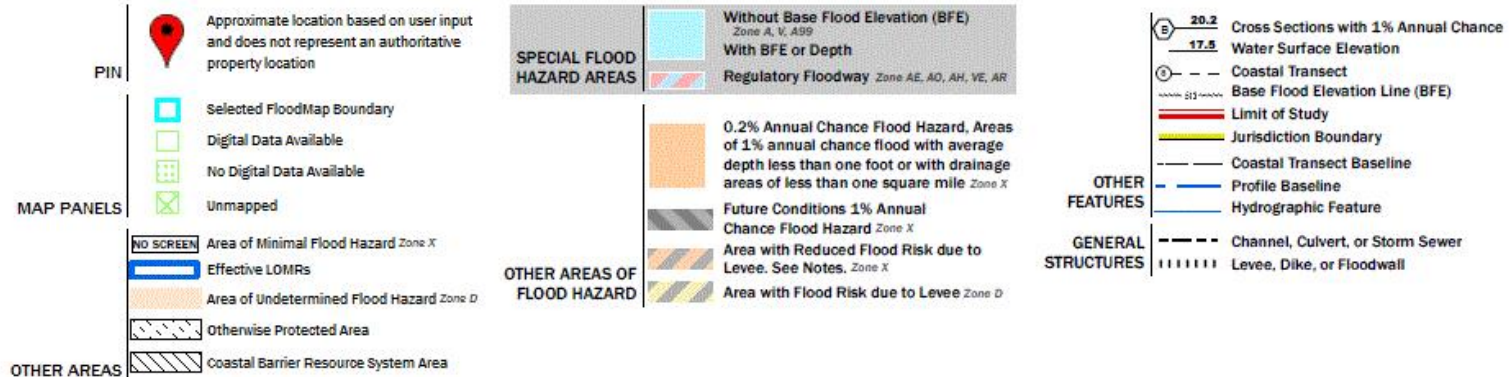
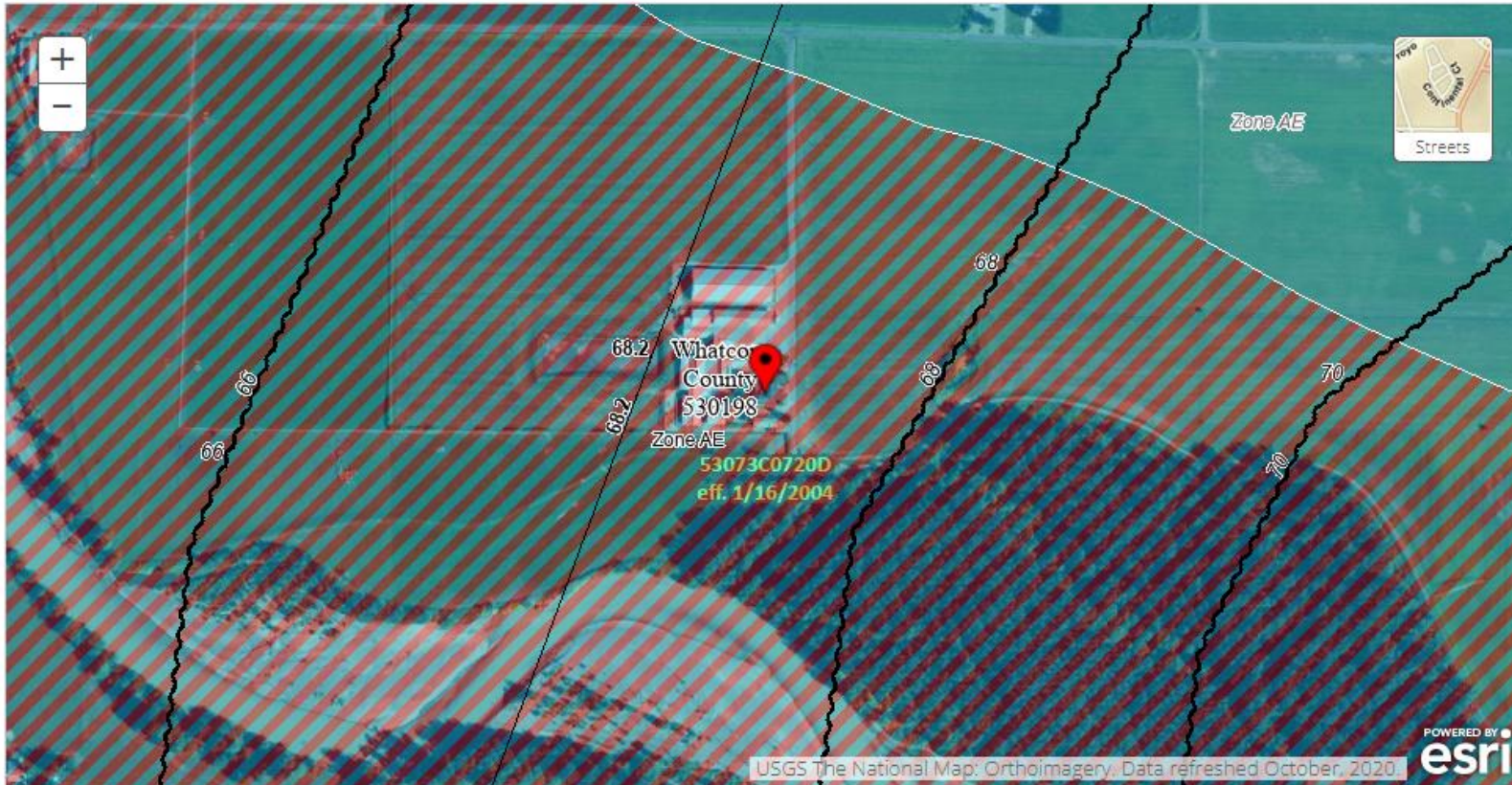
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

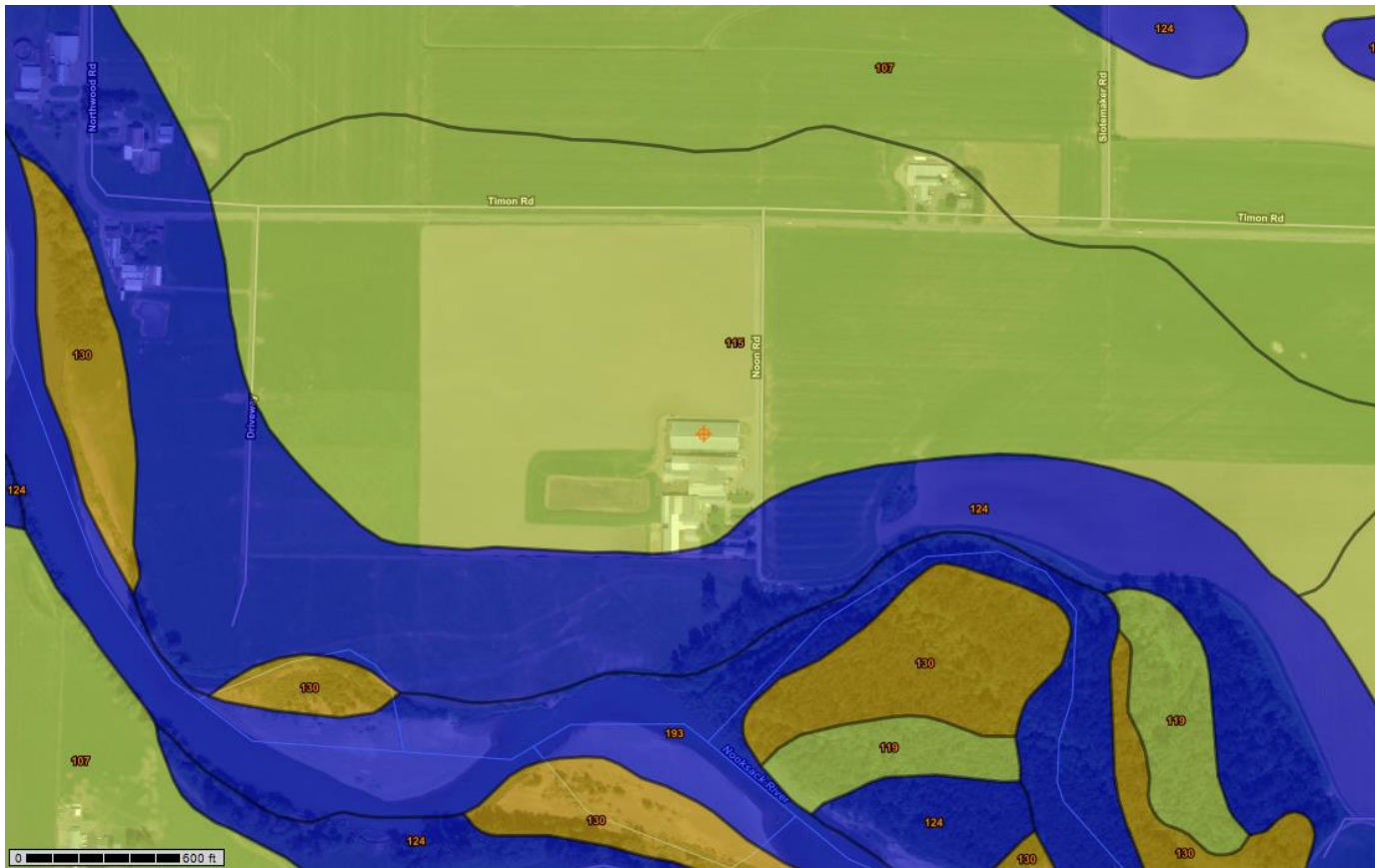
Van Berkum & Sons Dairy

1679 Timon Road, Everson WA

≈ 350 feet from the lagoons to the Nooksack River, in flood plain







Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Noteboom Farm LLC

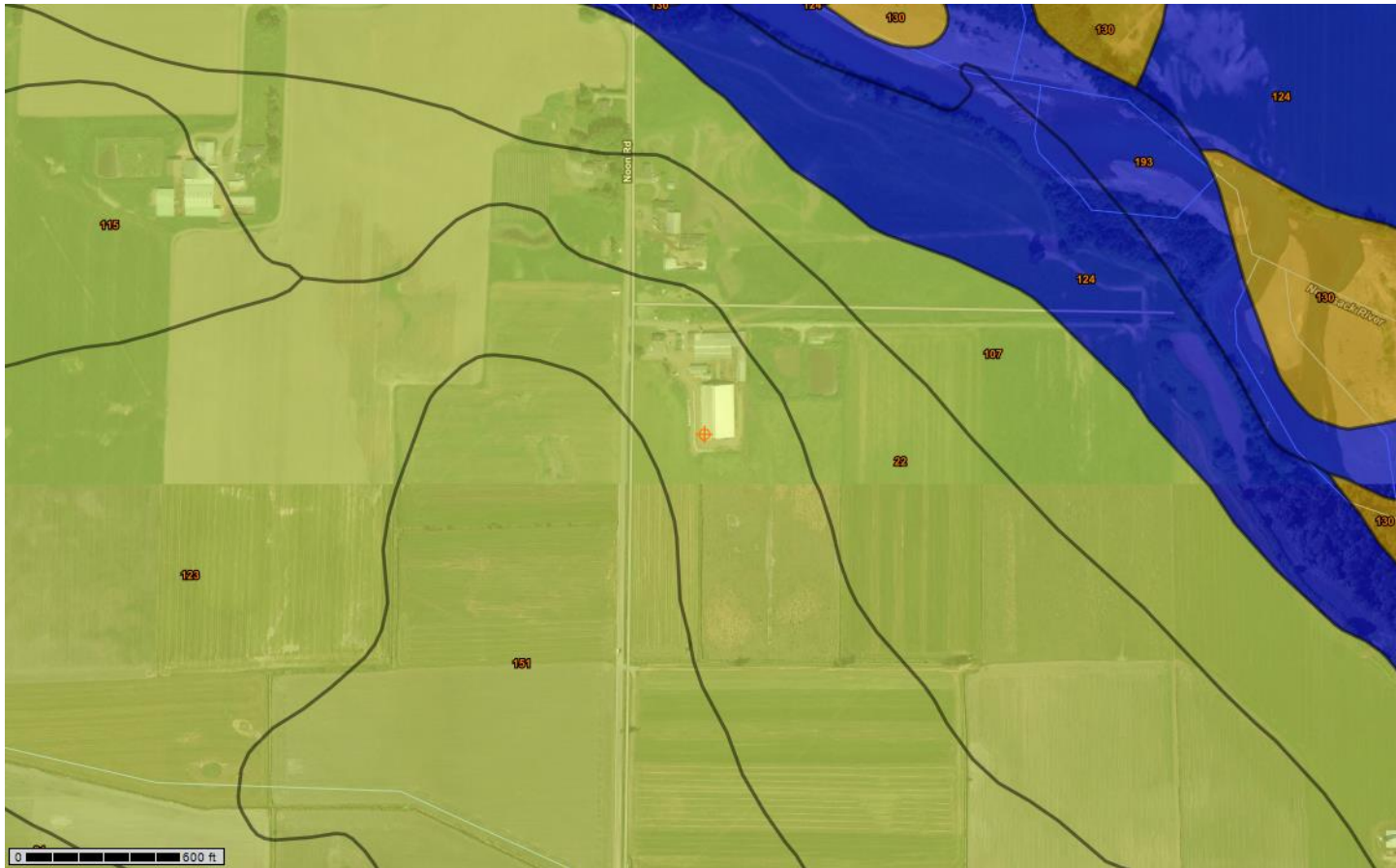
7800 Noon Road, Lynden WA

≈ 2,400 feet from the lagoons to the Nooksack River, in flood plain



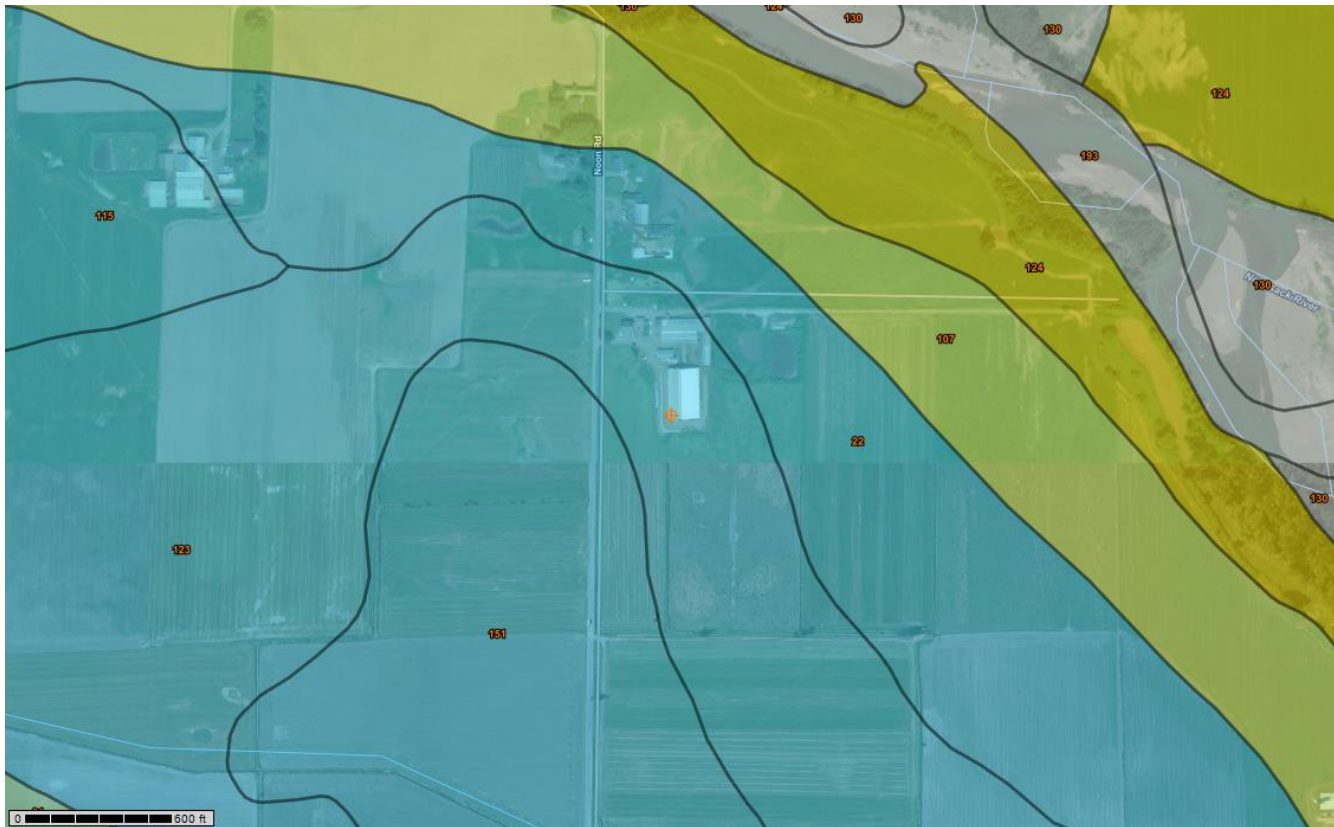


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Vande Hoef Dairy LLC

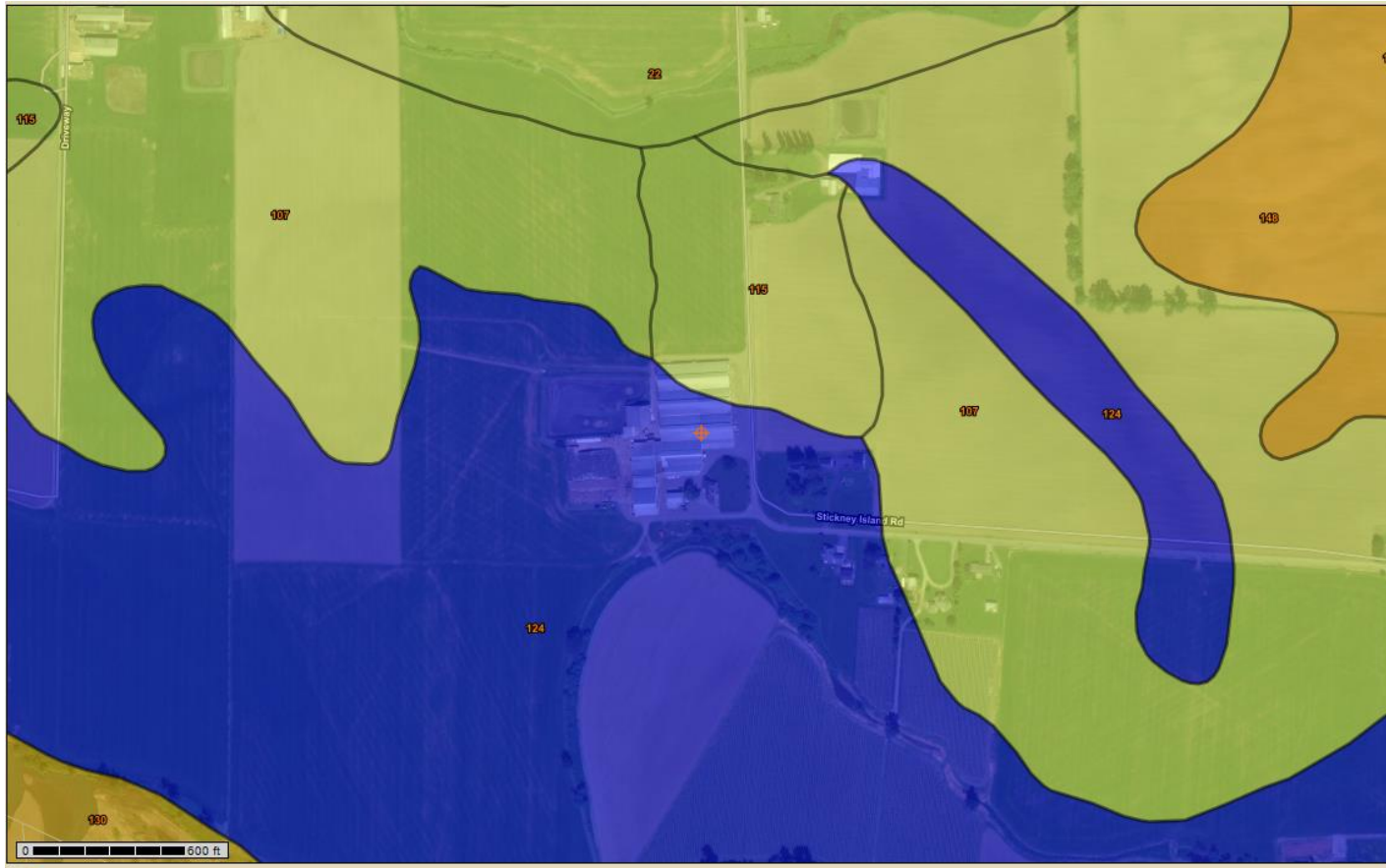
2121 Stickney Island Rd, Everson WA

≈ 1,600 feet from the lagoon to the Nooksack River, partially in flood plain



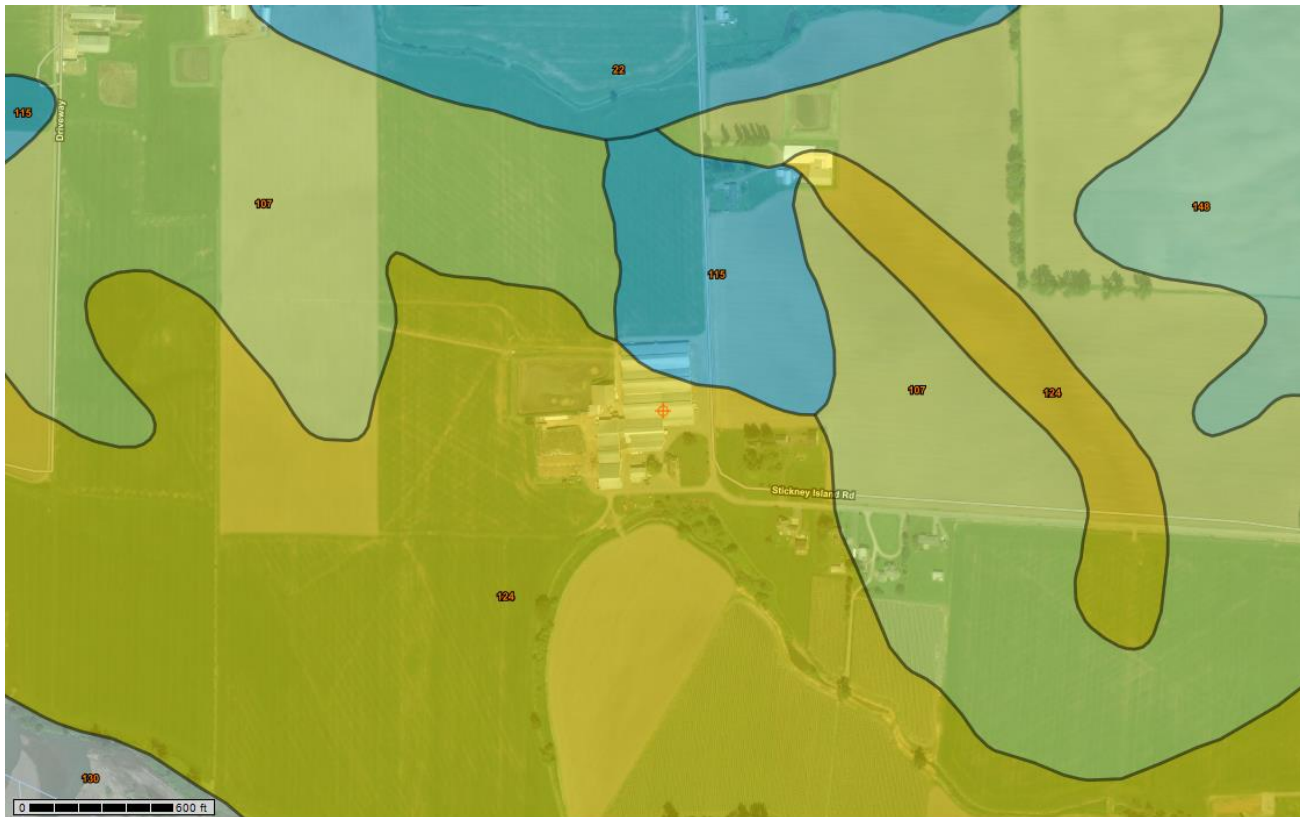


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



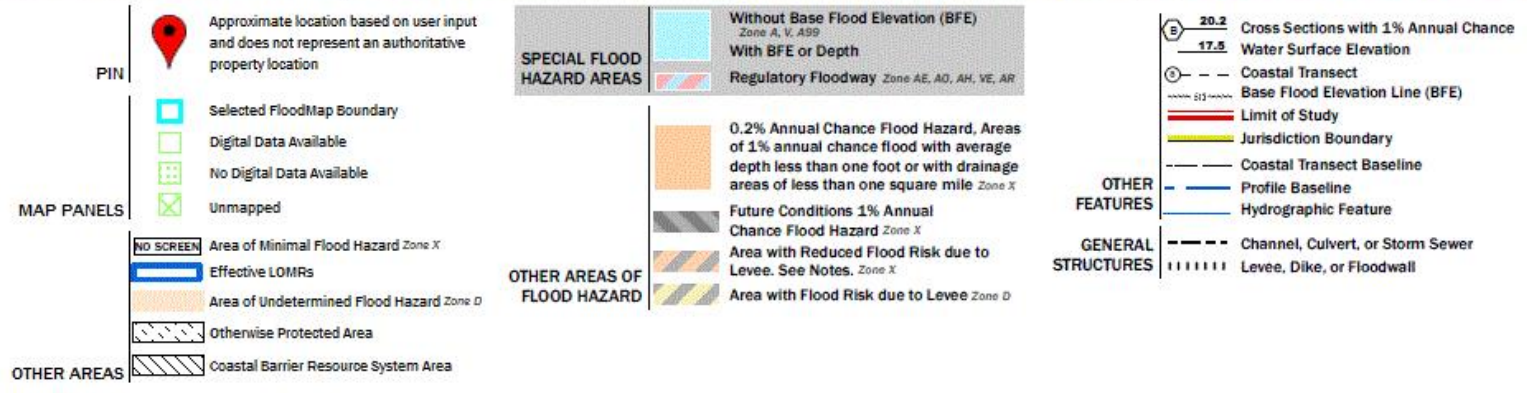
Drainage Class: Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Dyna Moo Dairy

6992 Mission Rd, Everson WA \approx 1,400 feet from the lagoons to the Nooksack River







Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



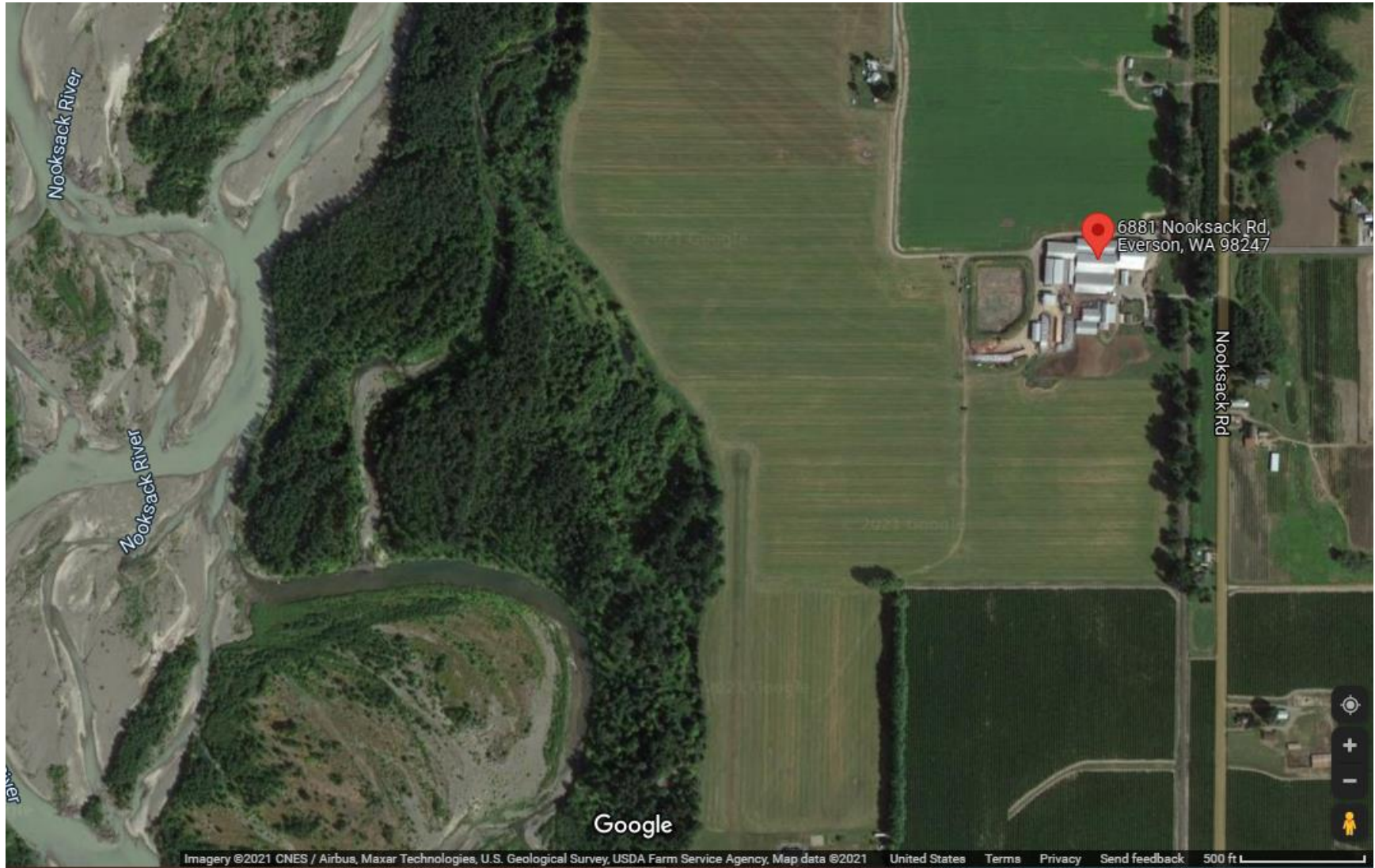
Drainage Class: Well Drained

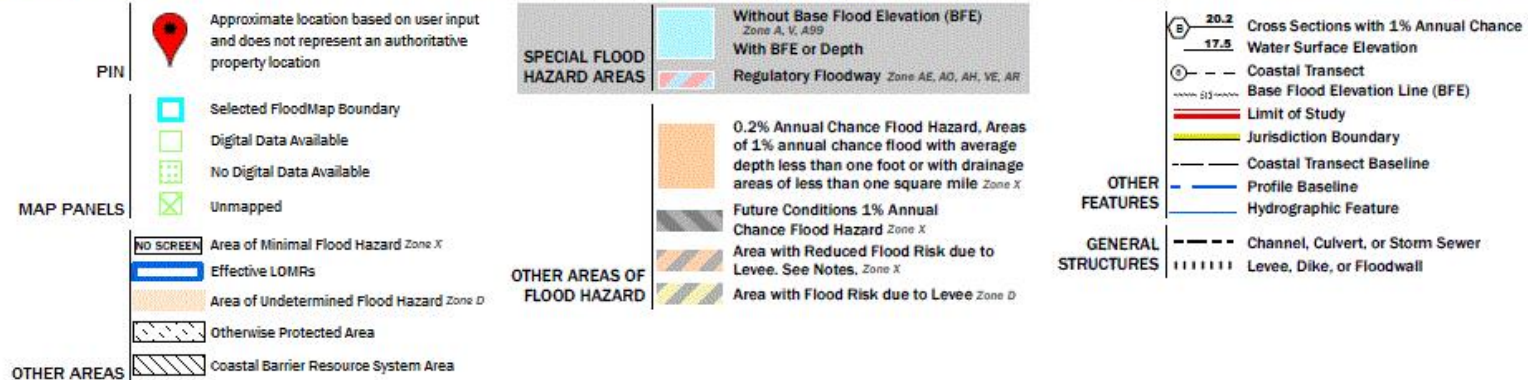
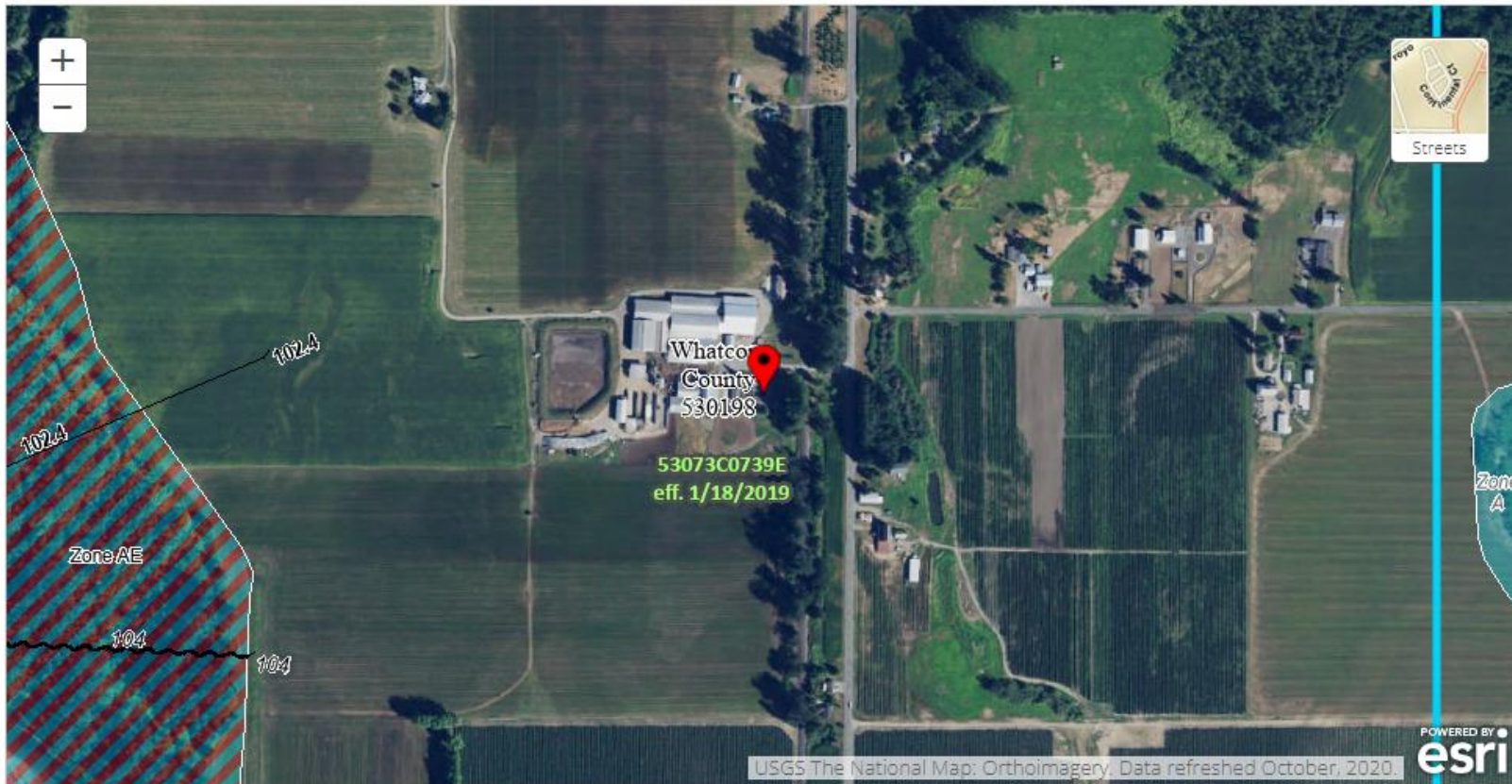
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Van Dellen Farms LLC

6881 Nooksack Rd, Everson WA

≈ 2,500 feet from the lagoon to the Nooksack River

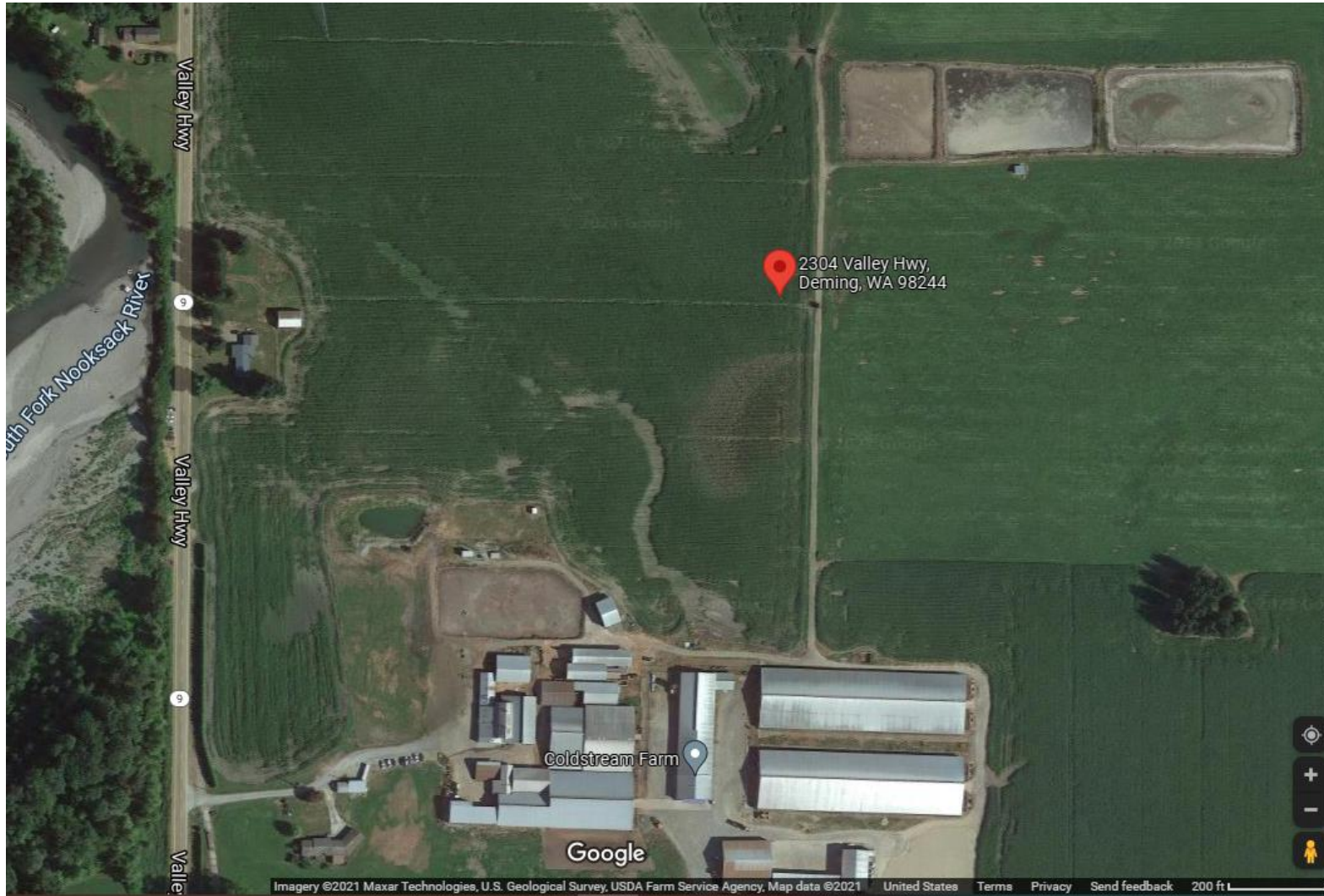


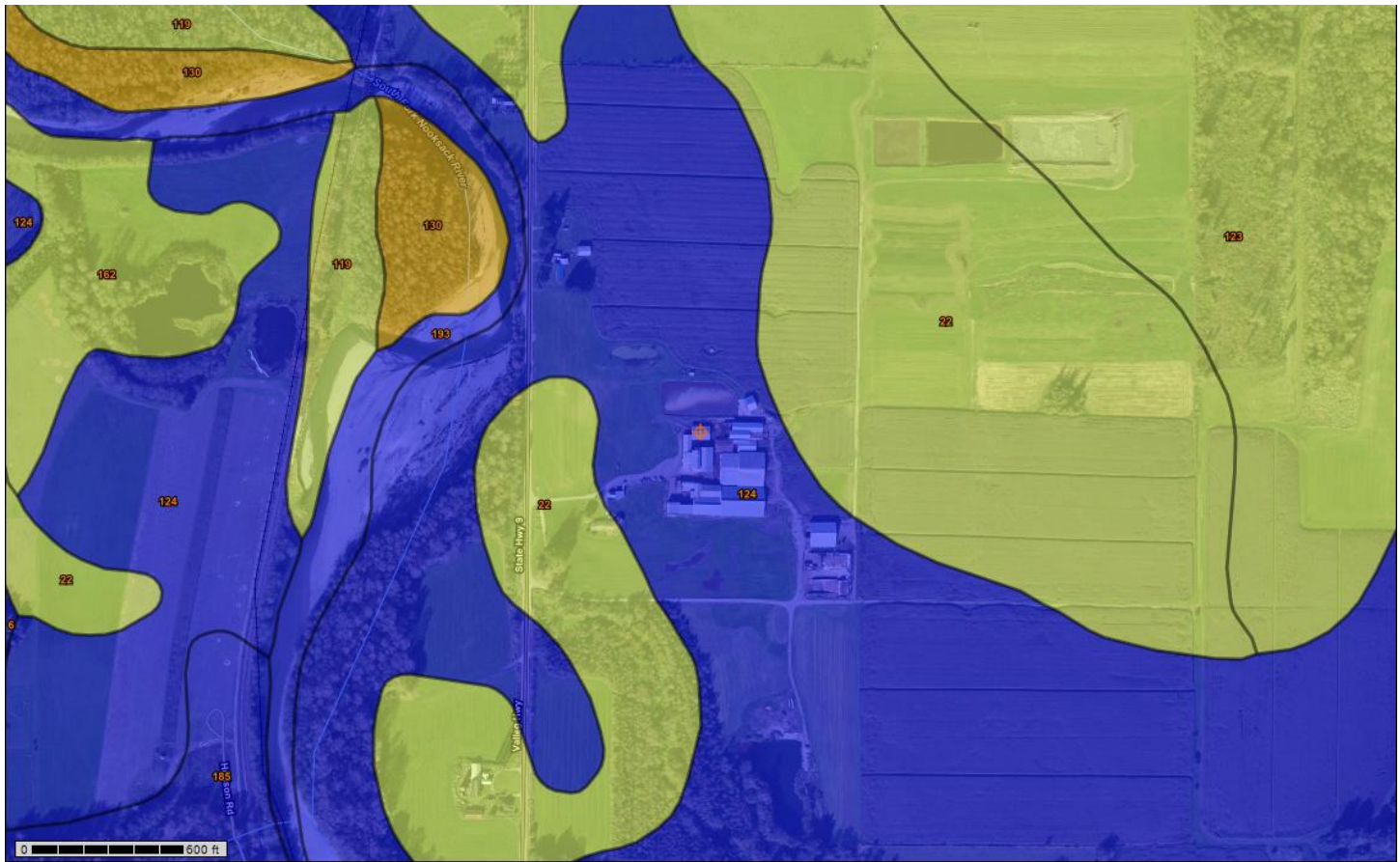


Coldstream Farms LLC

2304 Valley Highway, Deming WA

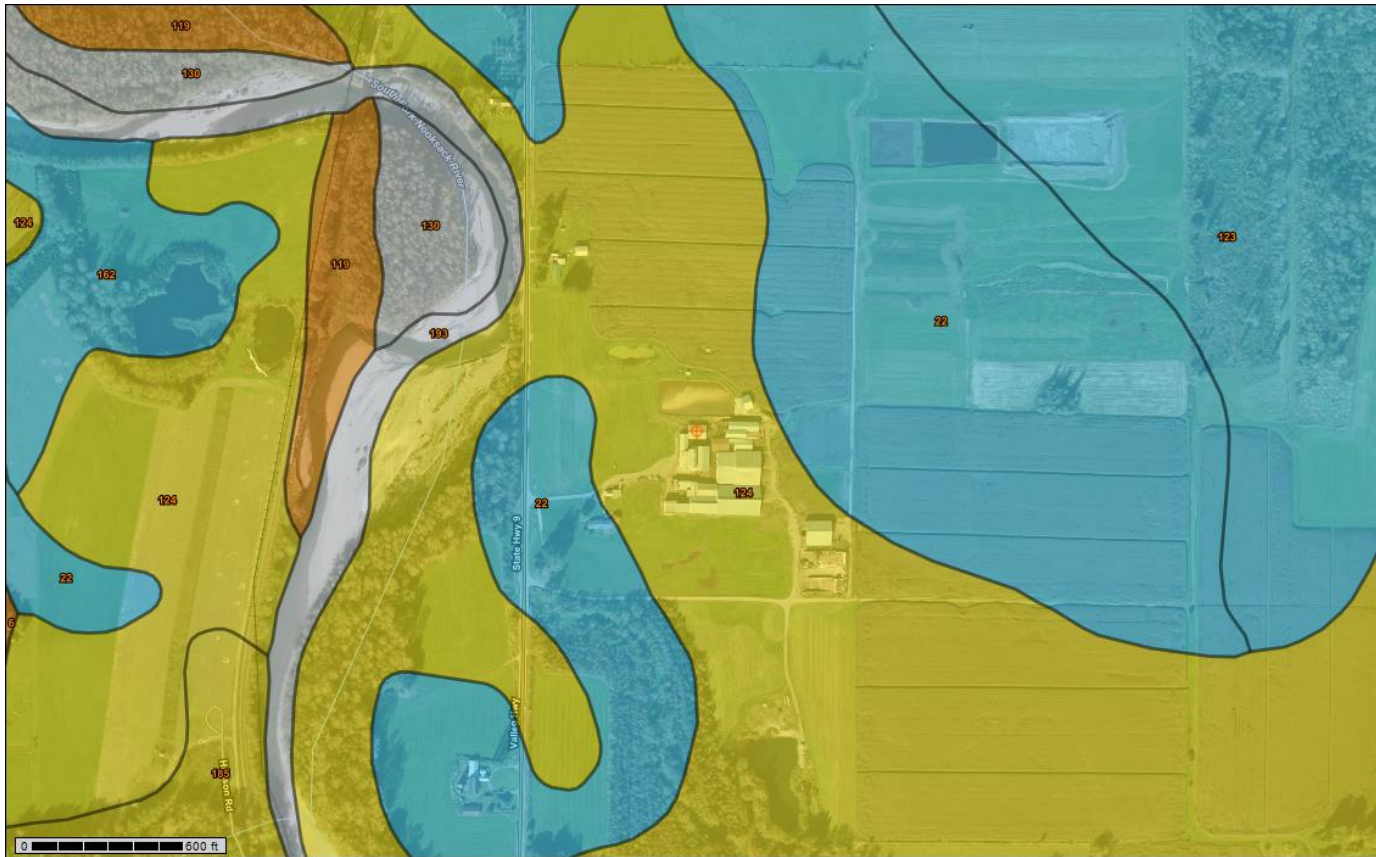
≈ 1,400 feet from the lagoons to the Nooksack River, in flood plain





Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained

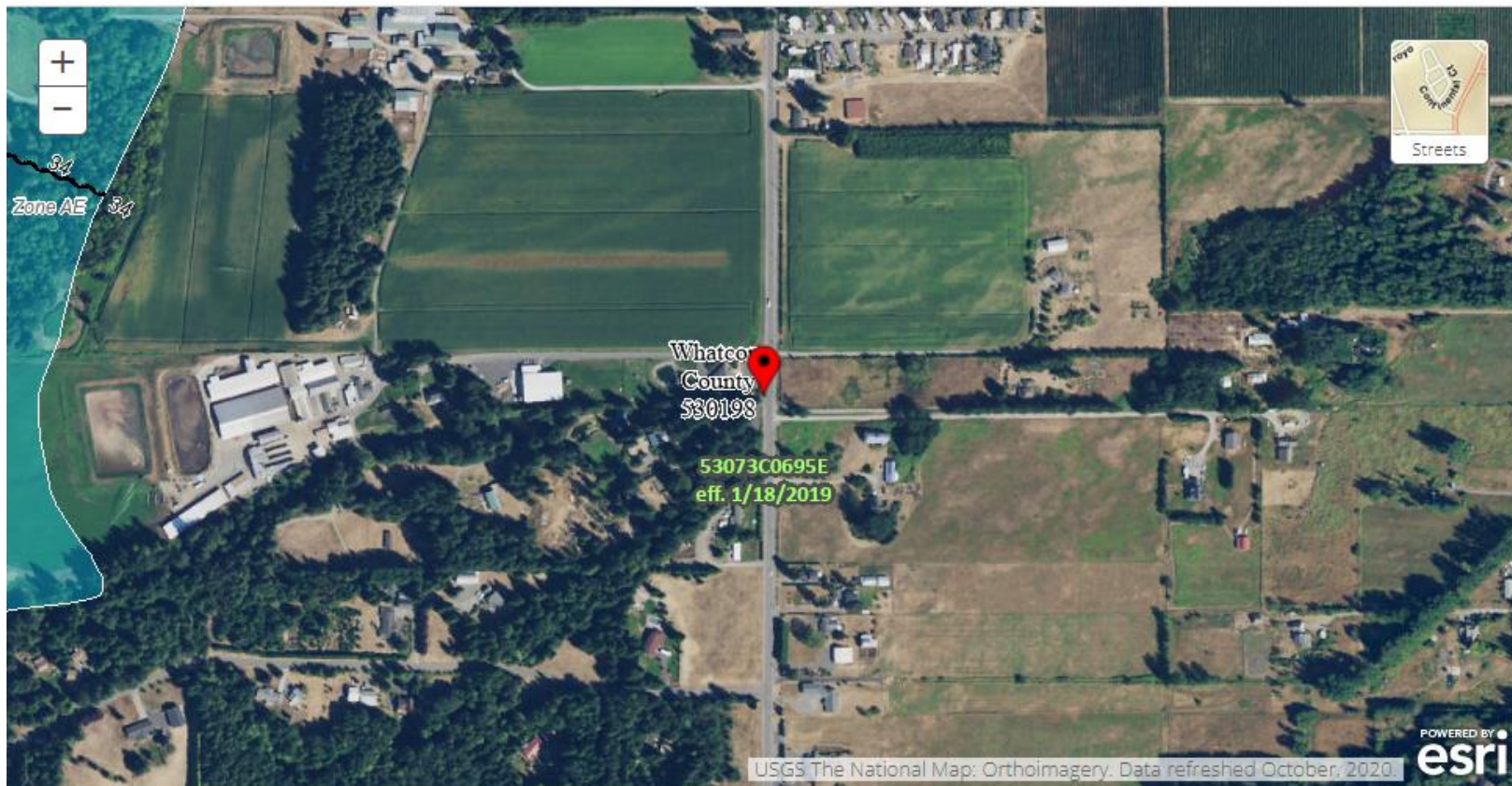
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Appel Brothers Dairy

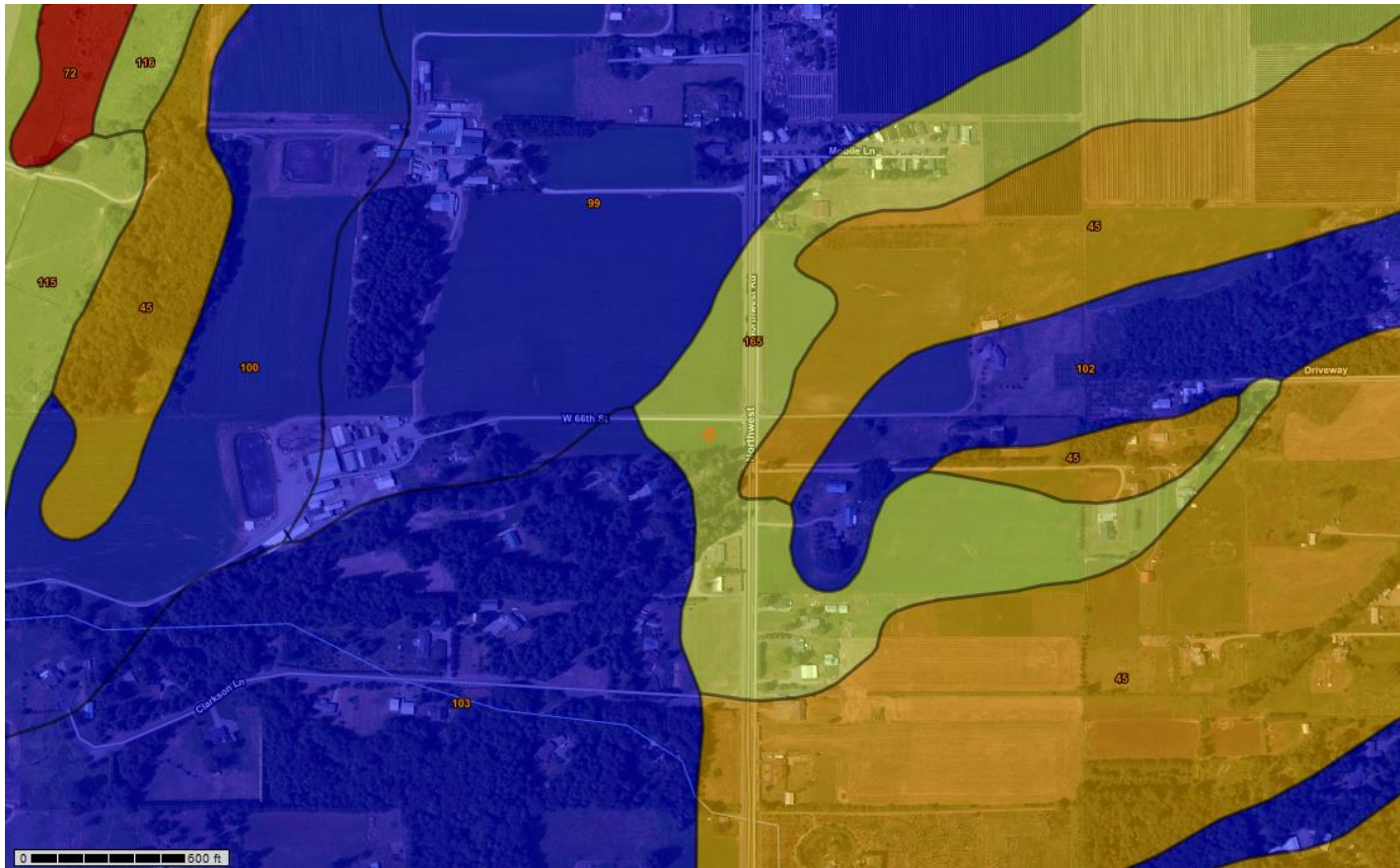
6605 Northwest Road, Ferndale WA

≈ 2,200 feet from lagoon to Nooksack River





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Sumas River

Mendoza Dairy

3263 Massey Rd, Everson WA

≈ 200 feet from lagoon to the Sumas River





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMIRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 60 – 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained/Moderately Well Drained

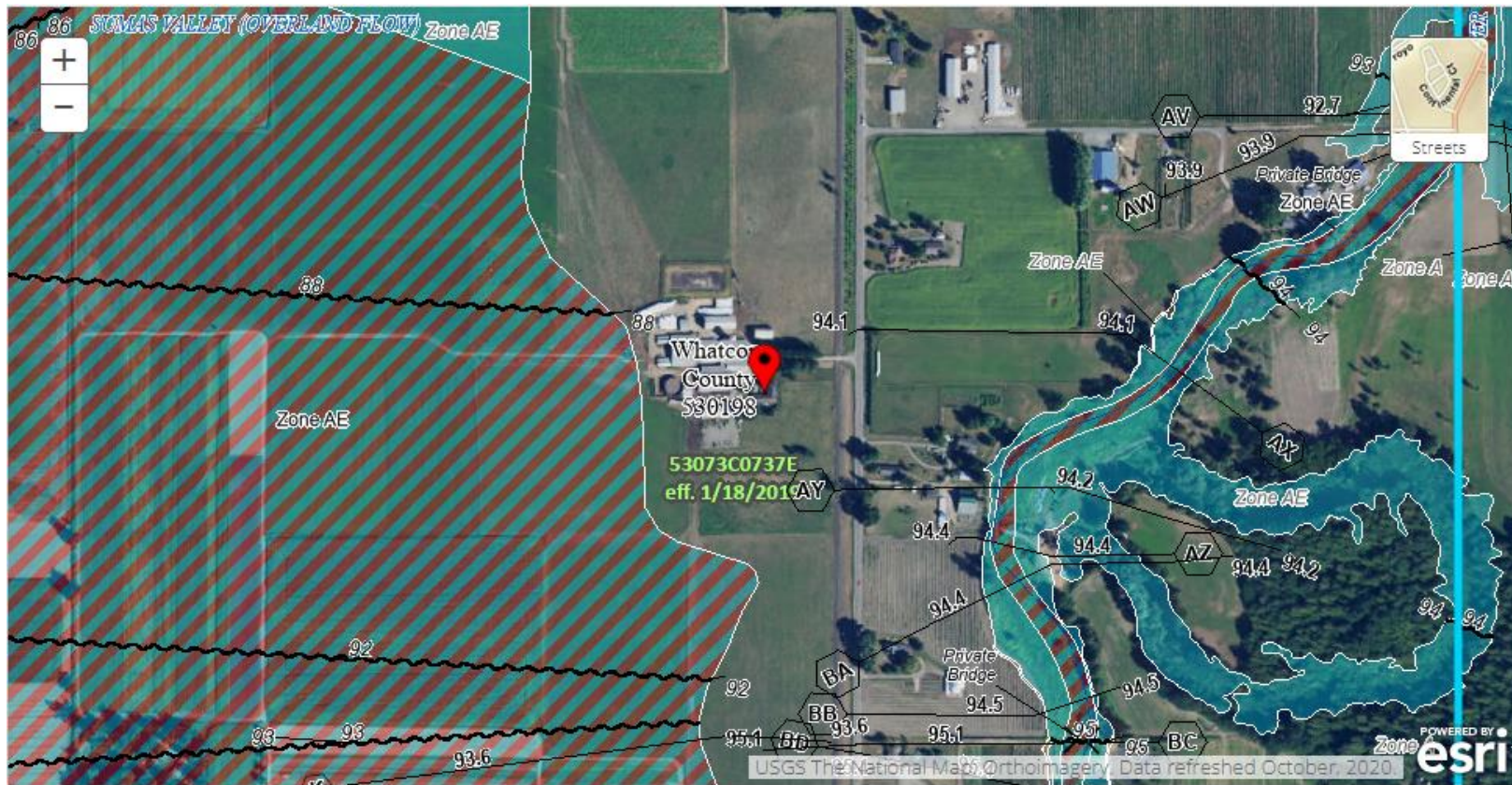
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Hopewell Farms

7433 Nooksack Rd, Everson WA

≈ 1,200 feet from the lagoon to the Sumas River





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR 	<p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
<p>MAP PANELS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area 	<p>OTHER AREAS</p> <ul style="list-style-type: none"> Coastal Barrier Resource System Area 	<p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall 	



Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

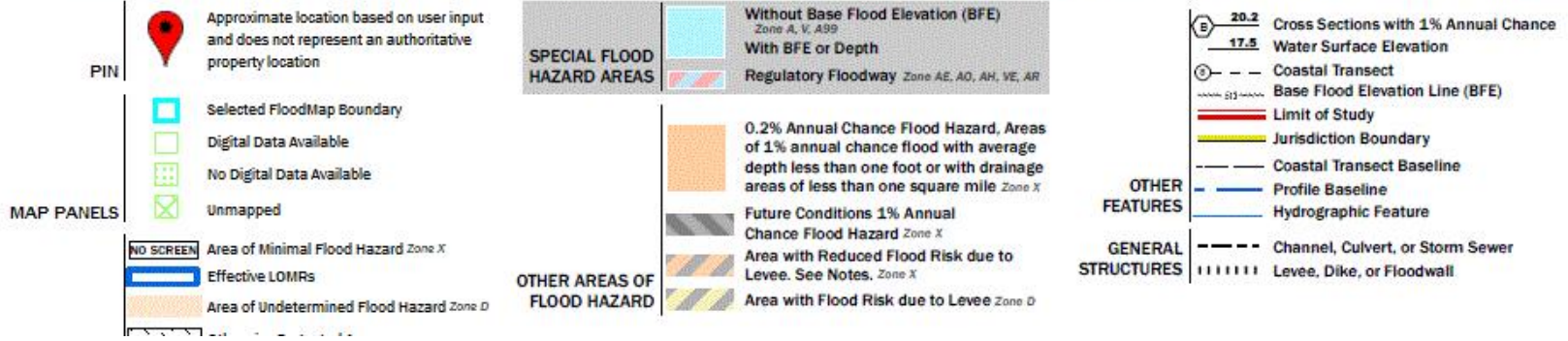
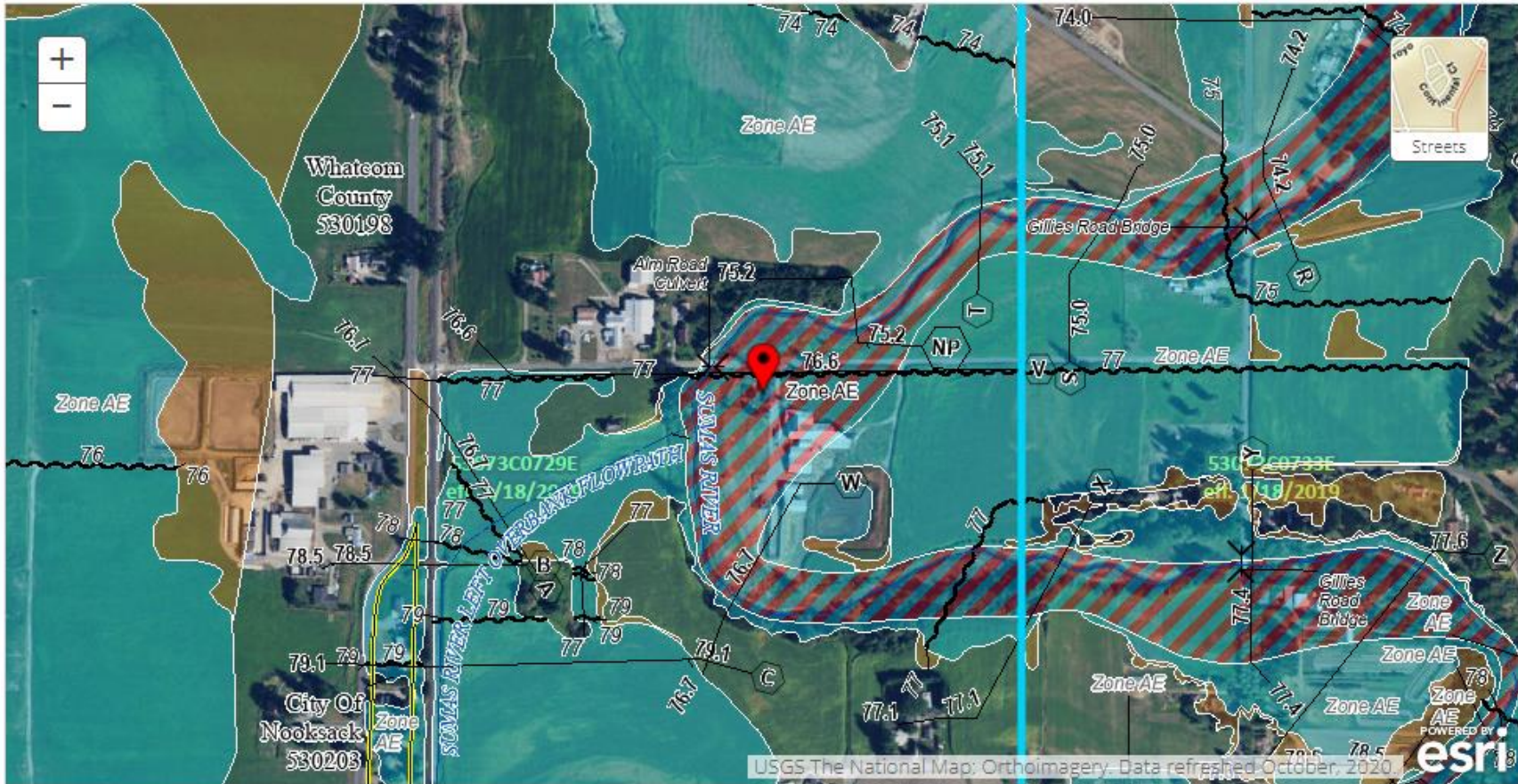
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Pete de Jager Dairy

3183 Alm Rd, Everson WA

≈ 200 feet from the lagoon to the Sumas River, in flood zone







Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Udder Pride Dairy

8331 Nooksack Rd, Everson WA

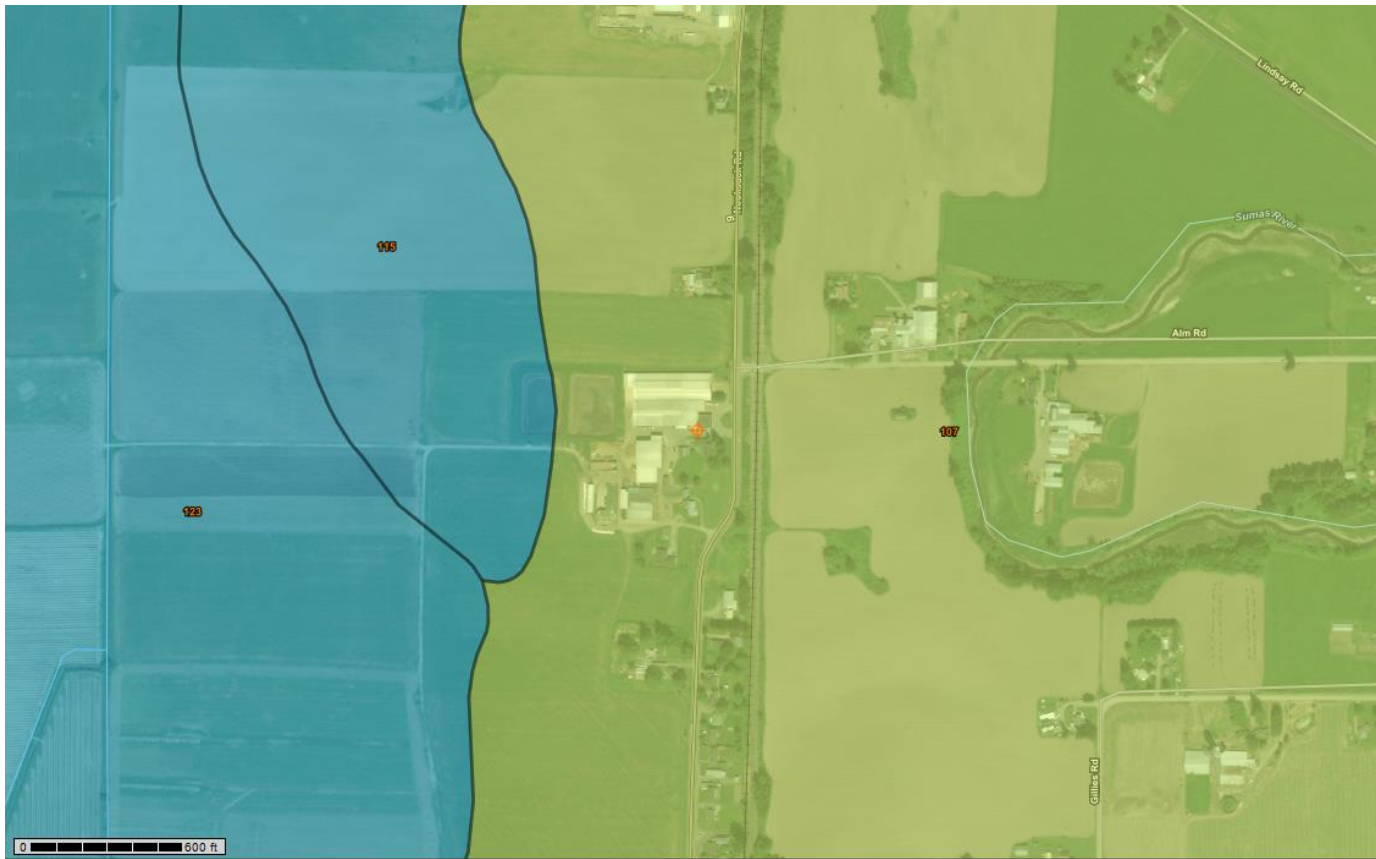
≈ 1,400 feet from the lagoons to the Sumas River





Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

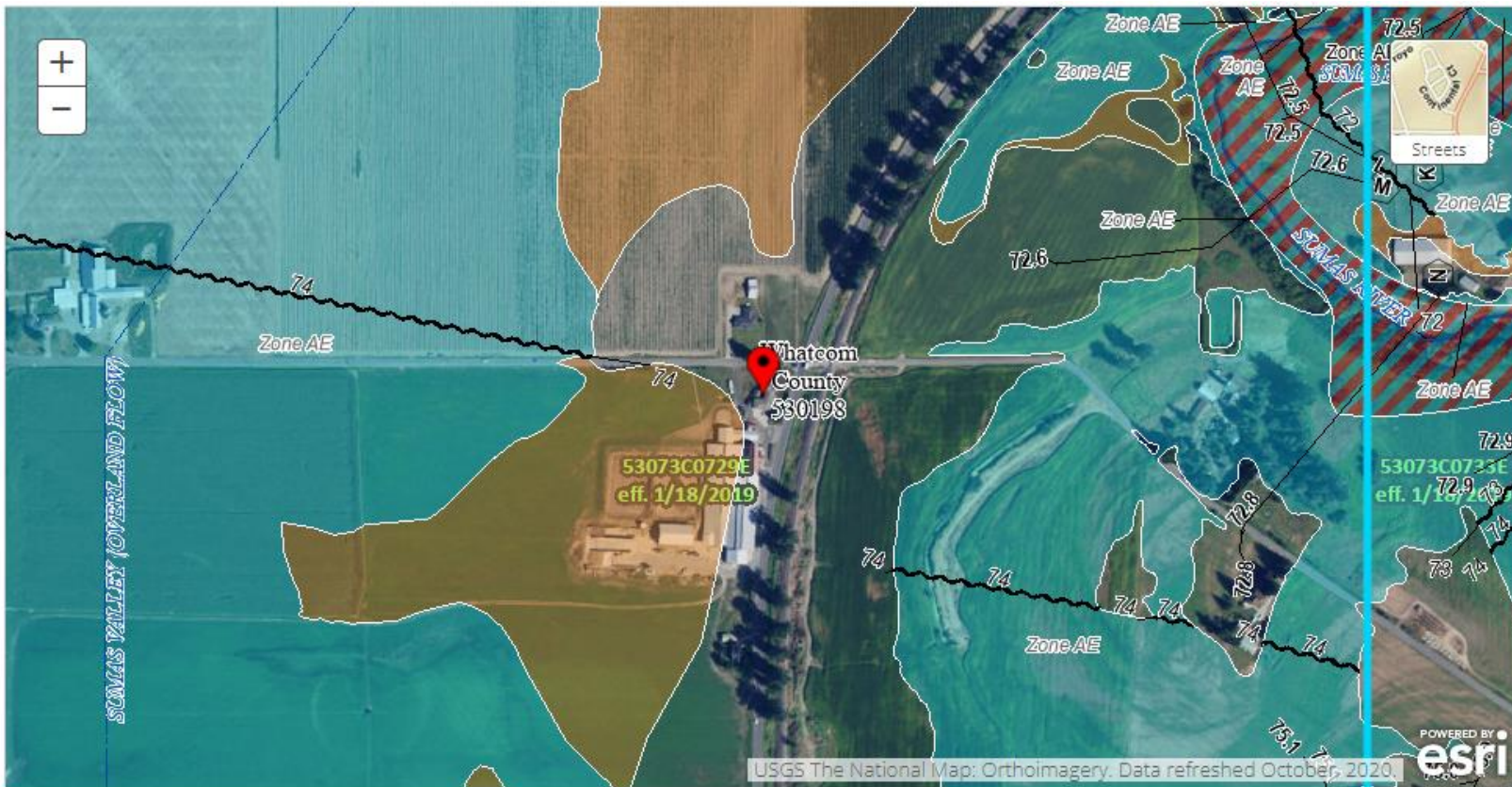
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

TC Berkum Farm

8499 Nooksack Rd, Everson WA

≈ 2,100 feet from the lagoons to the Sumas River





PIN		Approximate location based on user input and does not represent an authoritative property location
MAP PANELS		Selected FloodMap Boundary
		Digital Data Available
		No Digital Data Available
		Unmapped
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
		Otherwise Protected Area
		Coastal Barrier Resource System Area
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A39
		With BFE or Depth
		Regulatory Floodway Zone AE, AD, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes, Zone X
		Area with Flood Risk due to Levee Zone D
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
GENERAL STRUCTURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall



Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

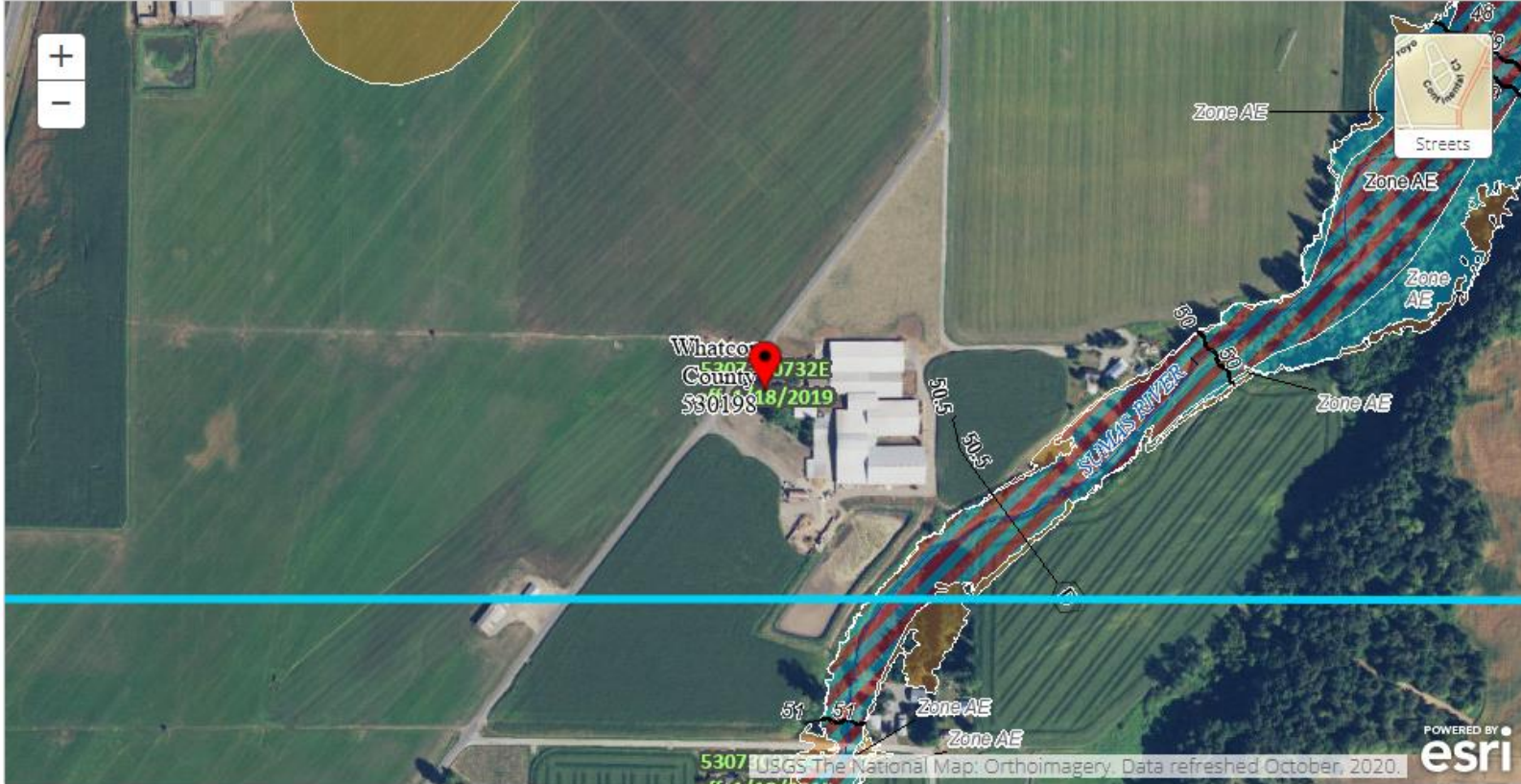
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

JV Dairy LLC

9056 Telegraph Rd, Sumas WA

≈ 100 feet from the lagoon to the Sumas River

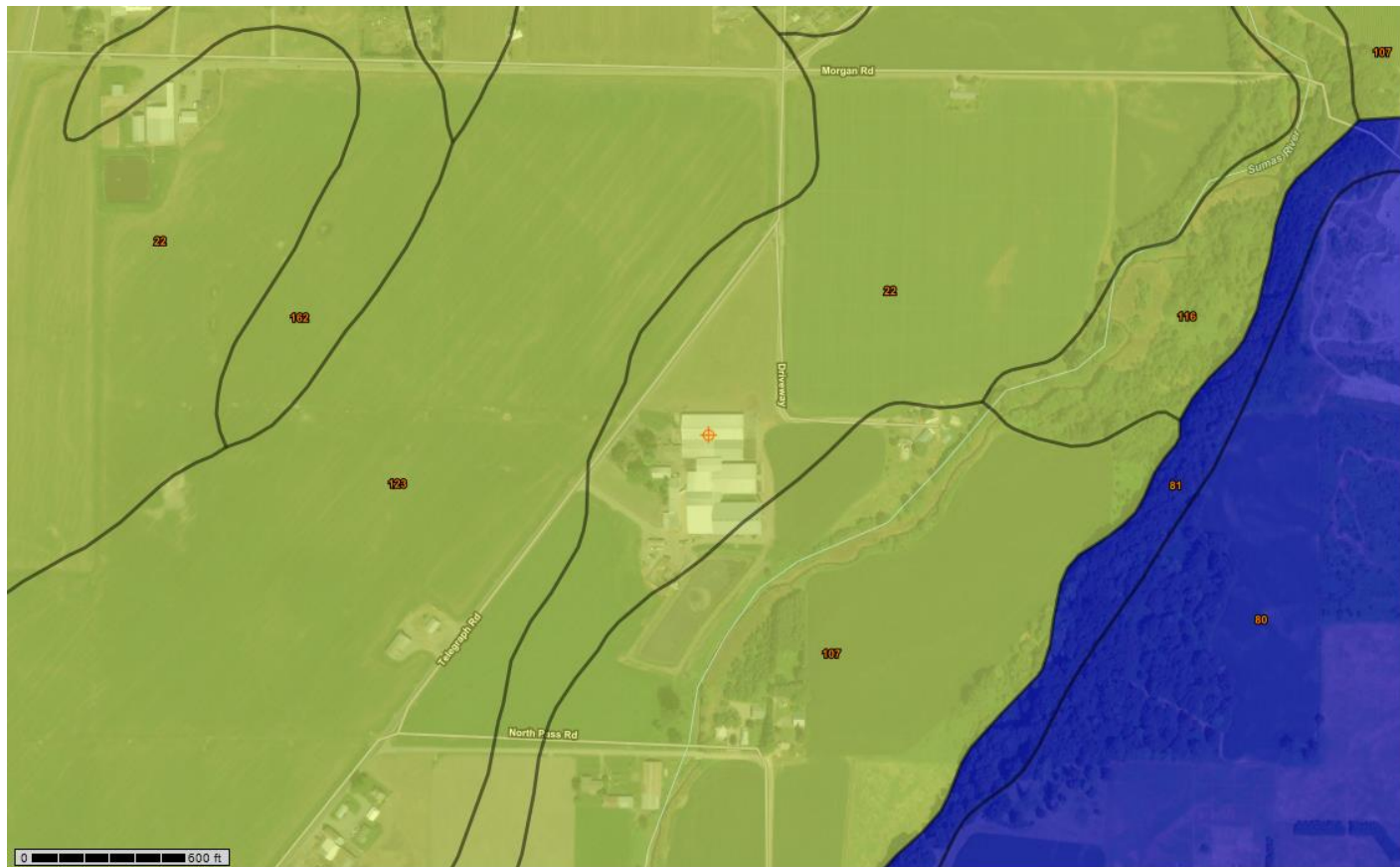




- PIN**
- Approximate location based on user input and does not represent an authoritative property location
- MAP PANELS**
- Selected FloodMap Boundary
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- OTHER AREAS**
- NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - Otherwise Protected Area
 - Coastal Barrier Resource System Area

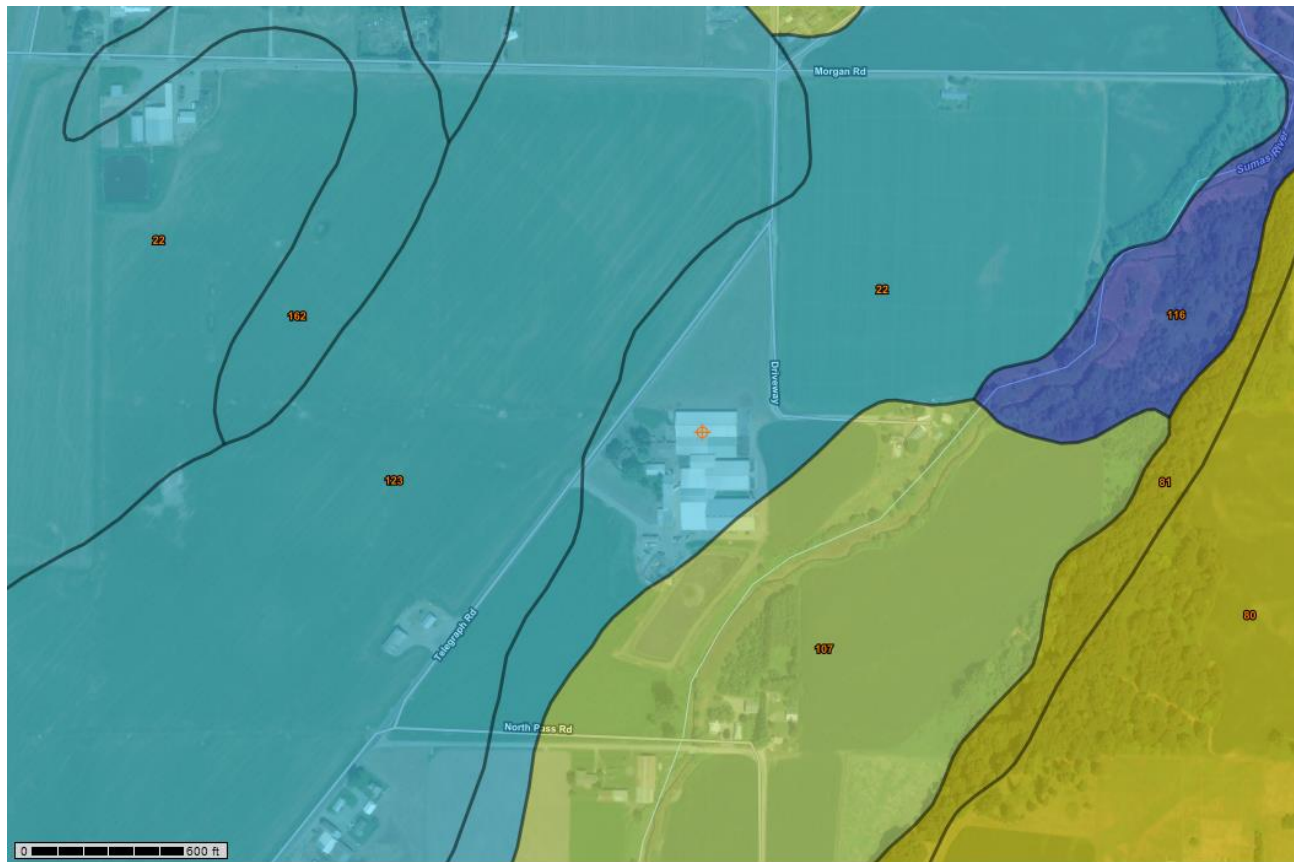
- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth
 - Regulatory Floodway Zone AE, AO, AH, VE, AR
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D

- OTHER FEATURES**
- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
 - 17.5 Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall



Depth to Water Table: 60 – 91 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained/Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Maarhuis Dairy LLC

9489 Hovel Rd, Sumas WA

≈ 700 feet from the lagoons to the Sumas River





Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

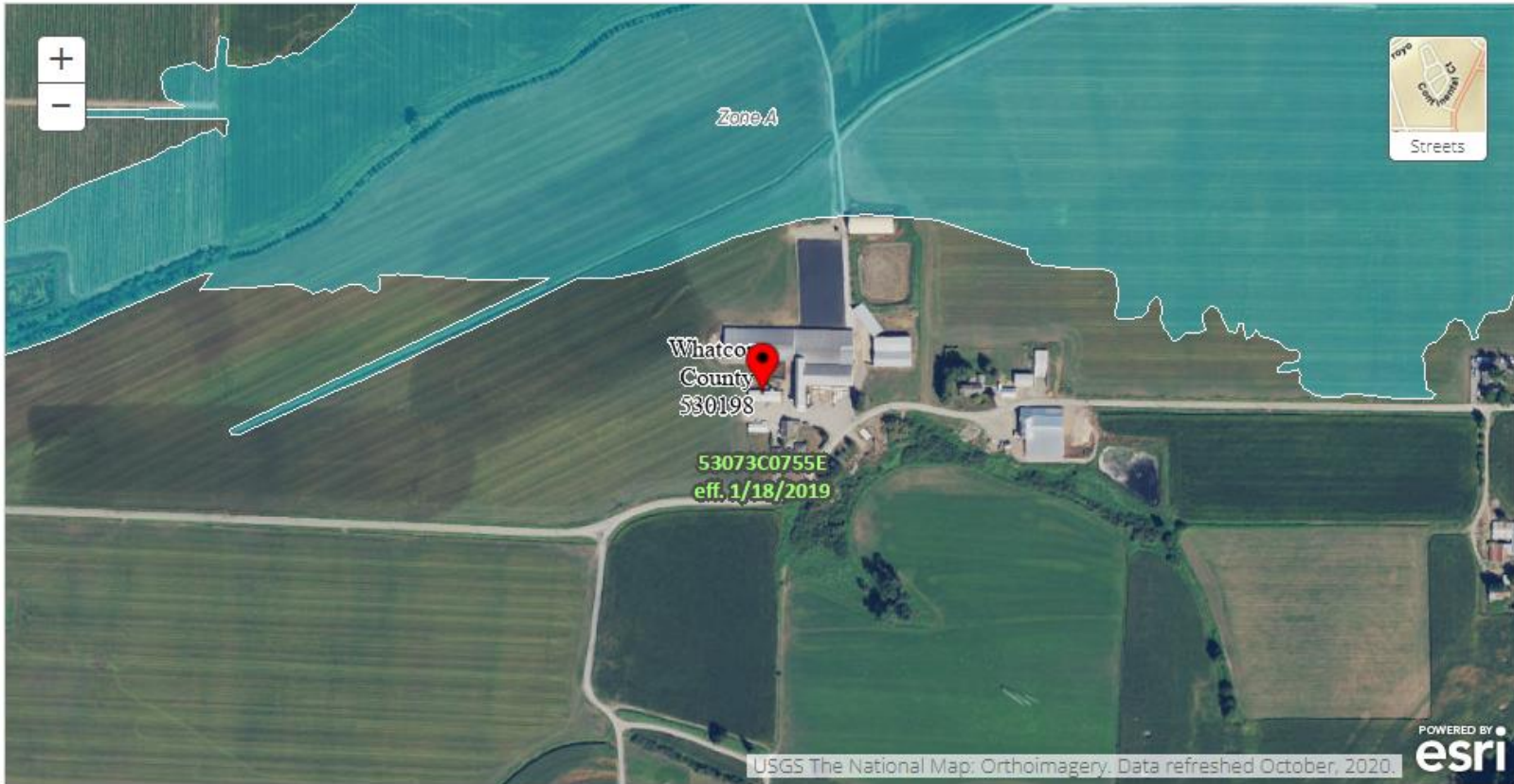
Saar Creek

Hillview Dairy

4938 Hillview Rd, Sumas WA

≈ 900 feet from lagoon to Saar Creek



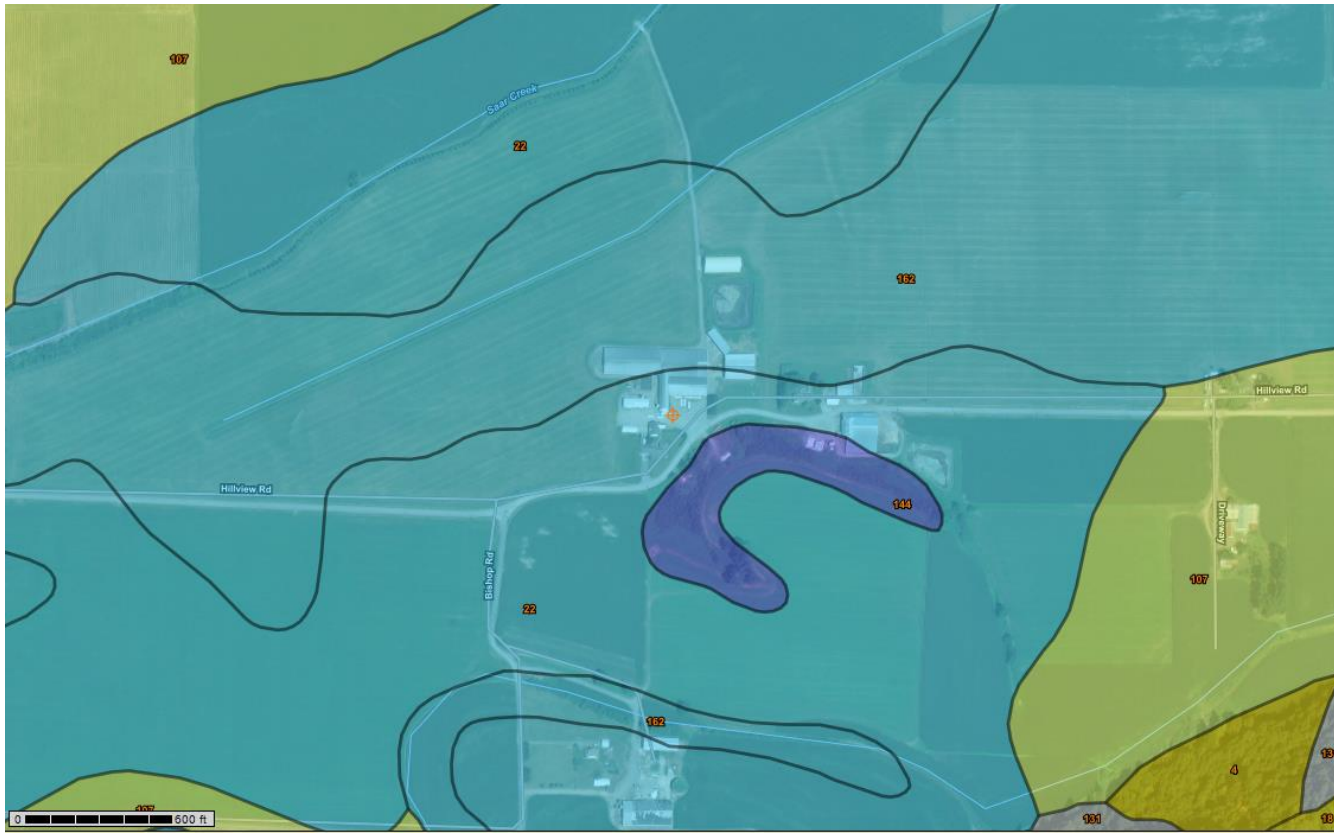


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard <i>Zone X</i> Effective LOMRs Area of Undetermined Flood Hazard <i>Zone D</i> Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) <i>Zone A, V, AG99</i> With BFE or Depth Regulatory Floodway <i>Zone AE, AO, AH, VE, AR</i> <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i> 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



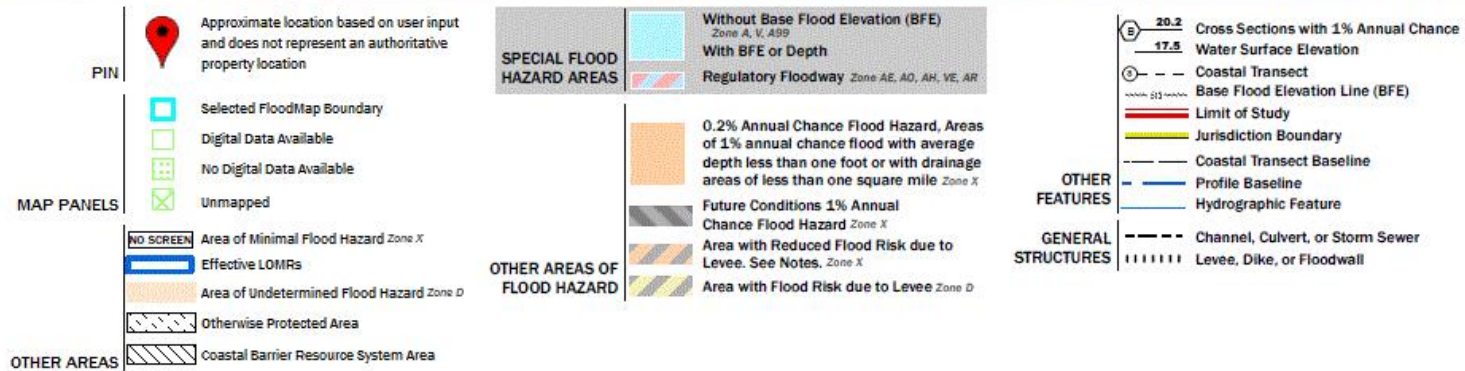
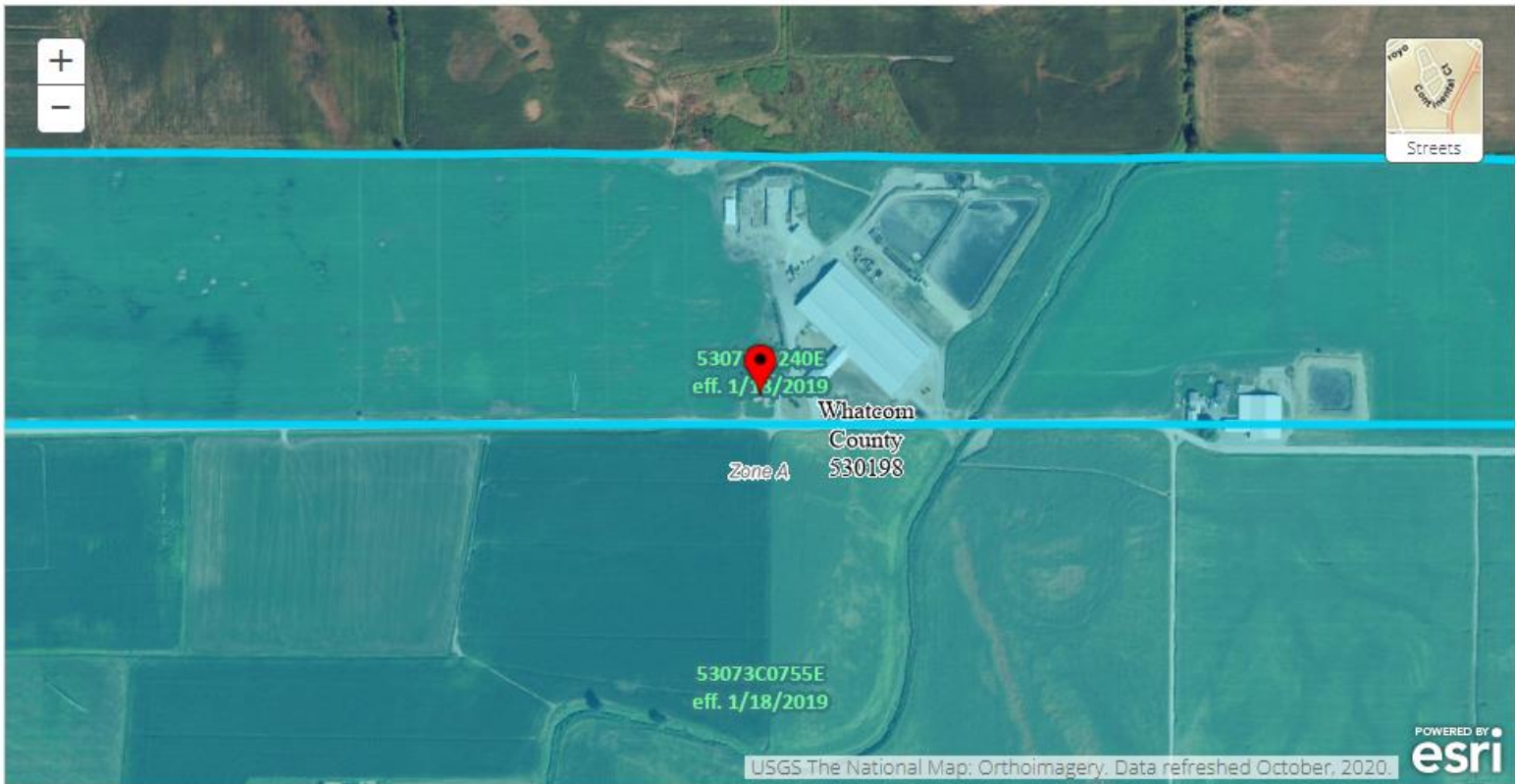
Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Vreugdenhil Farms LLC

5202 Jones Rd, Sumas WA \approx 200 feet from lagoons to Saar Creek





(Mapping stops at the Canadian Border)



Depth to Water Table: 60 cm (Soil Mapping stops at the Canadian Border)

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

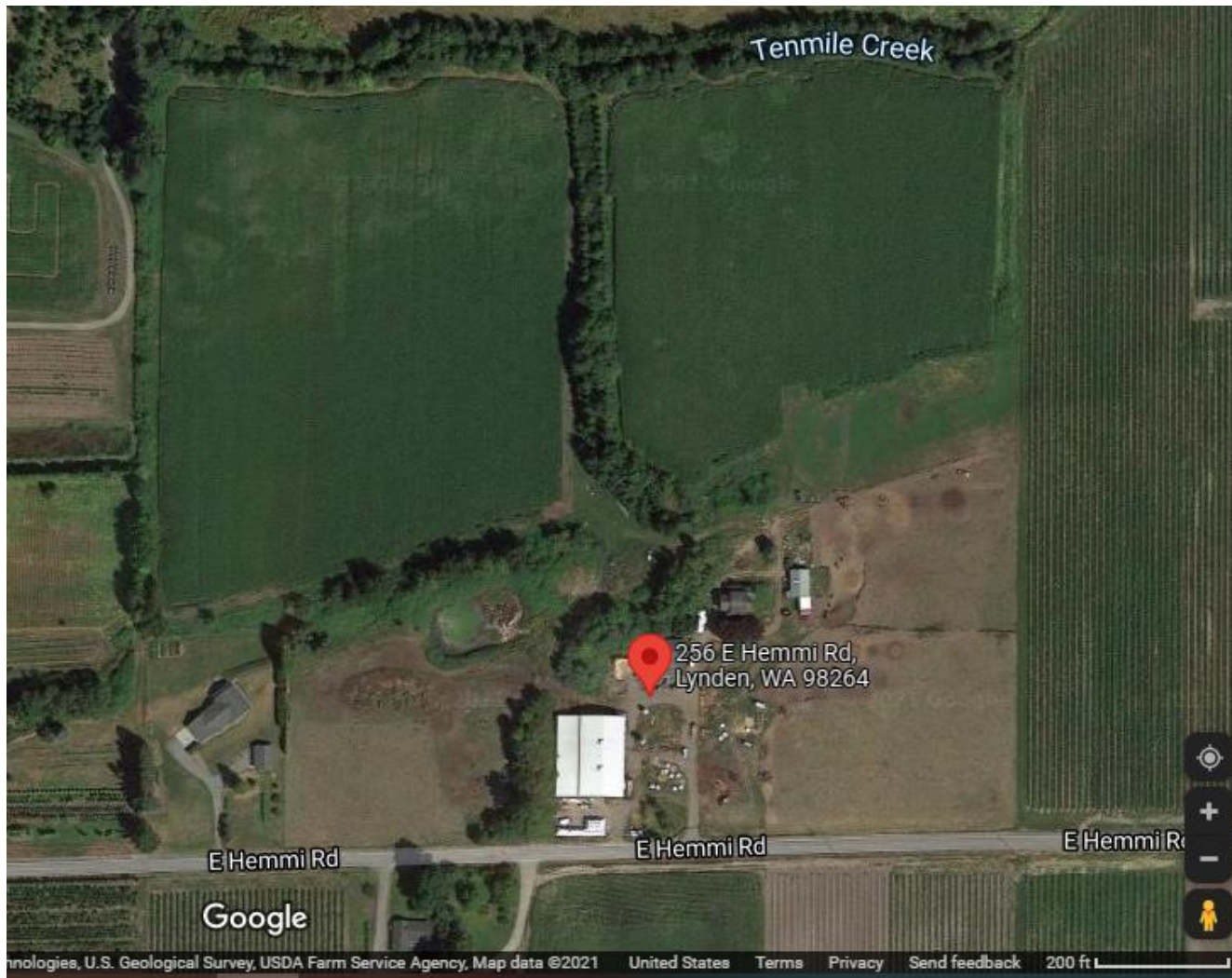
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

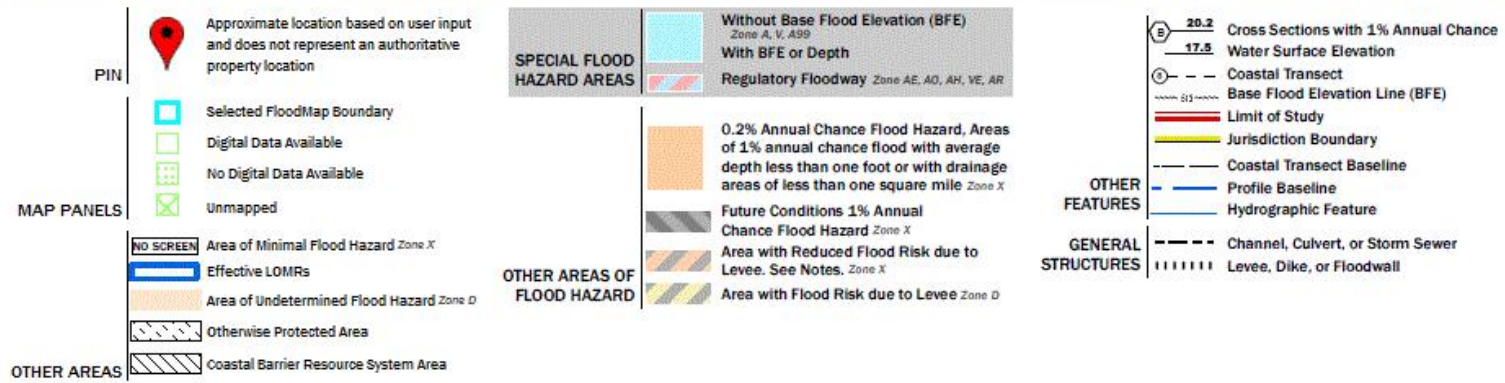
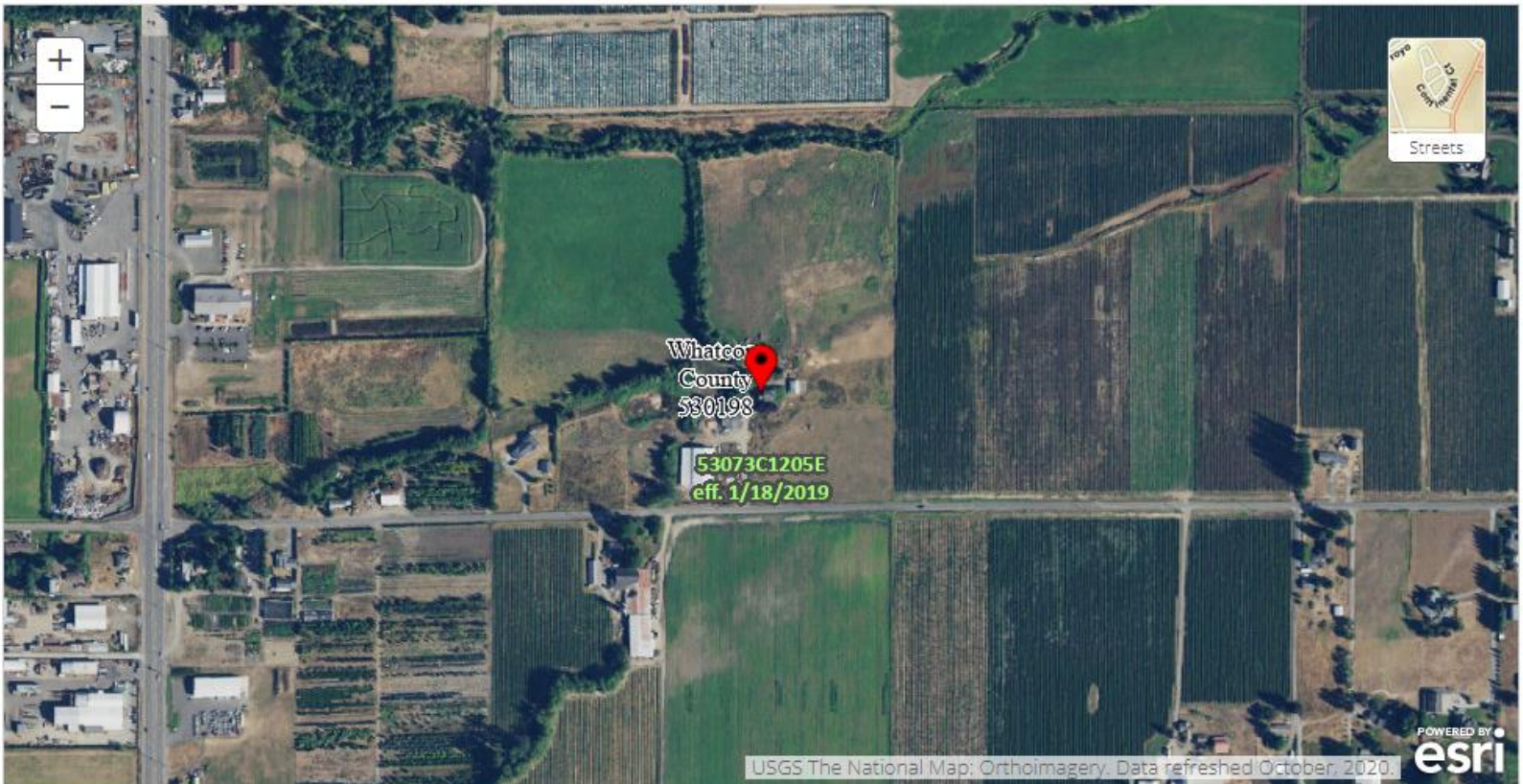
Ten Mile Creek

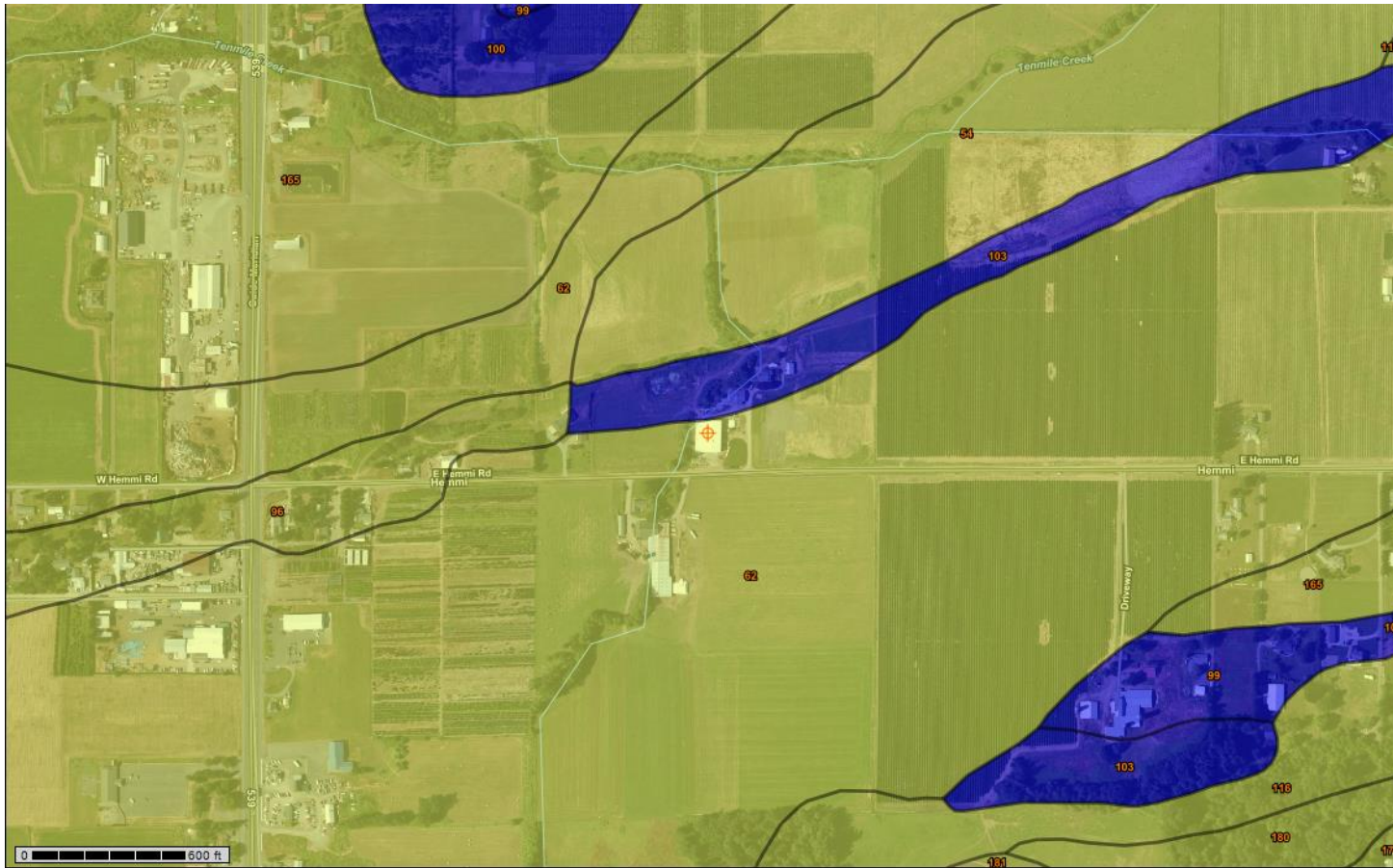
Sundstrom Family Farms

256 East Hemmi Rd, Lynden WA

≈ 800 feet from lagoon to Tenmile Creek

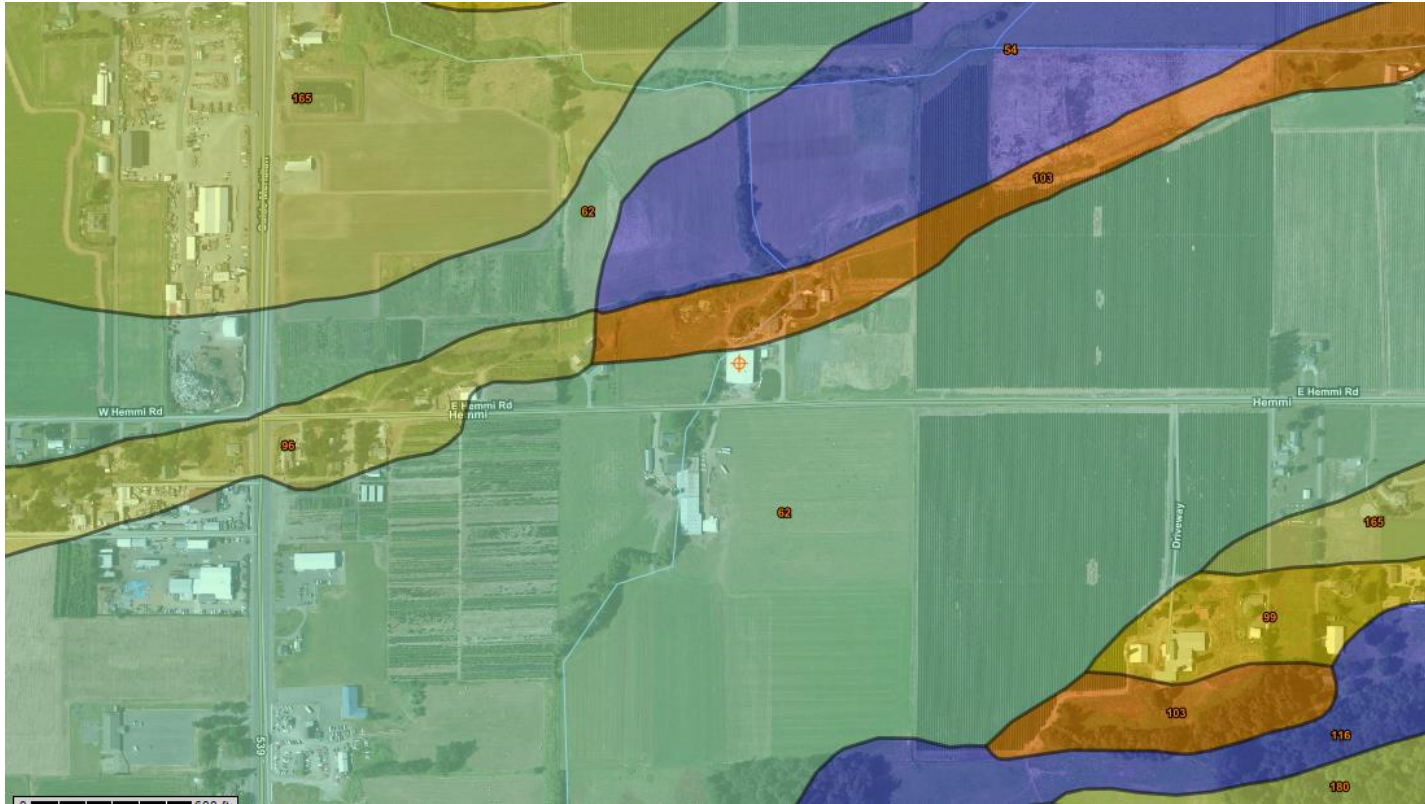






Depth to Water Table: 80 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Somewhat Poorly Drained

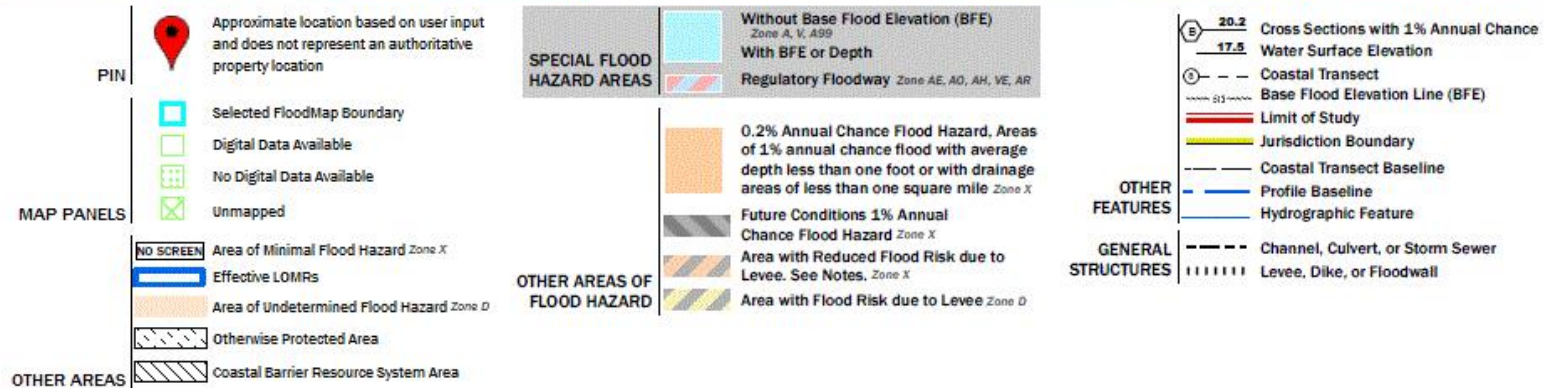
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Paradise Jerseys LLC

1625 Paradise Rd, Ferndale WA

≈ 500 feet from lagoons to Ten Mile Creek







Depth to Water Table: 45 – 61 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

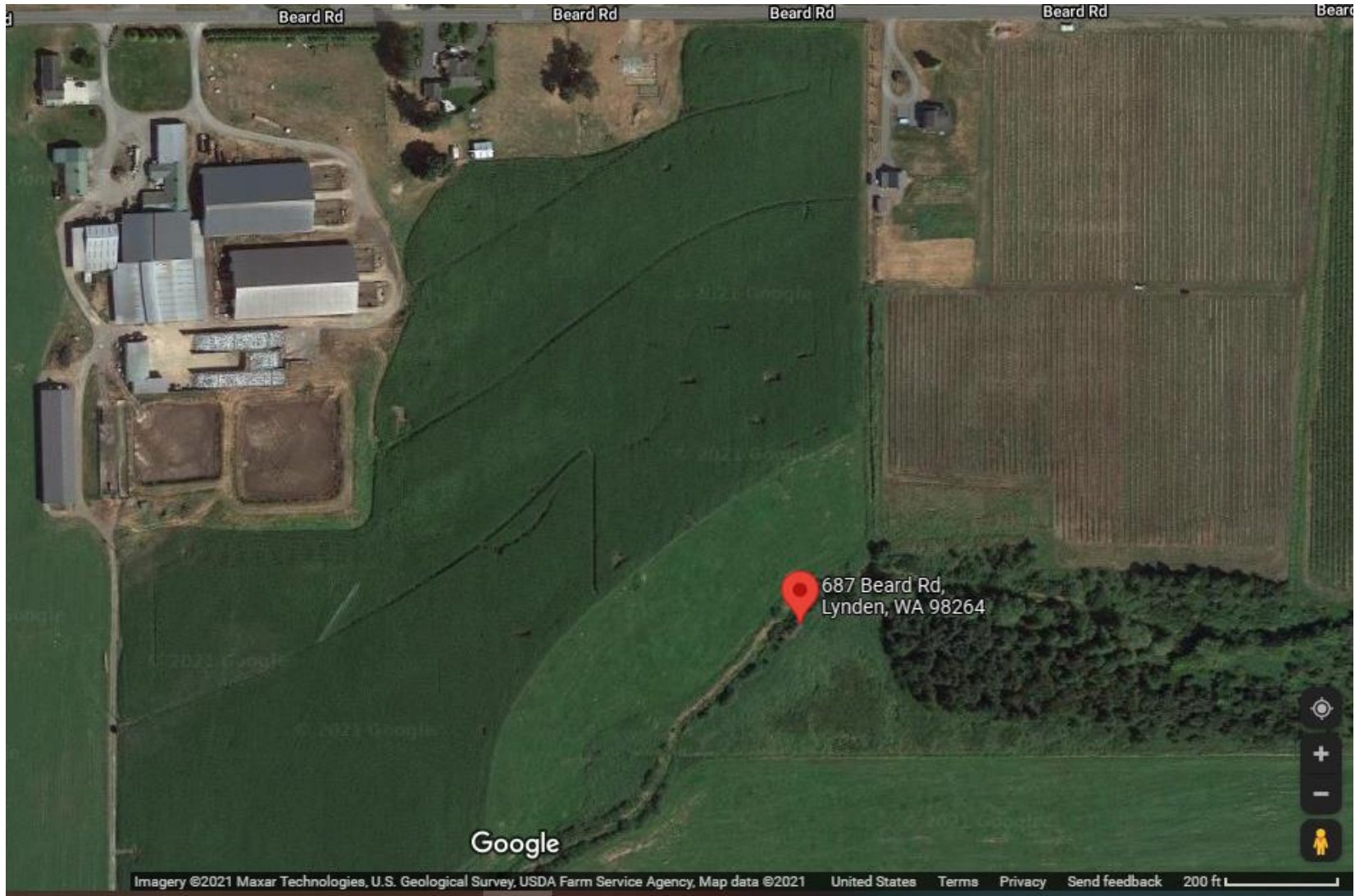


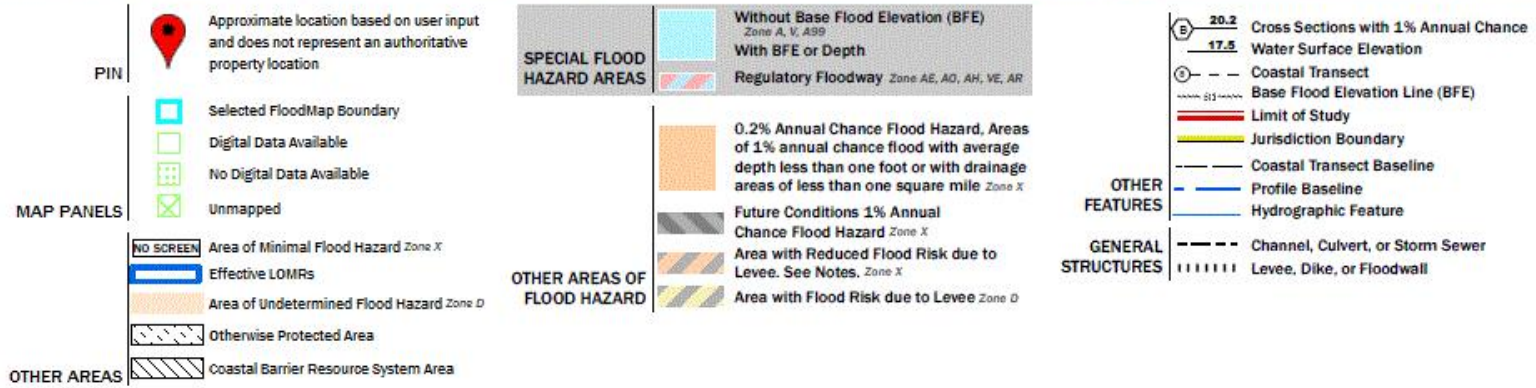
Drainage Class: Moderately Well Drained/Poorly Drained

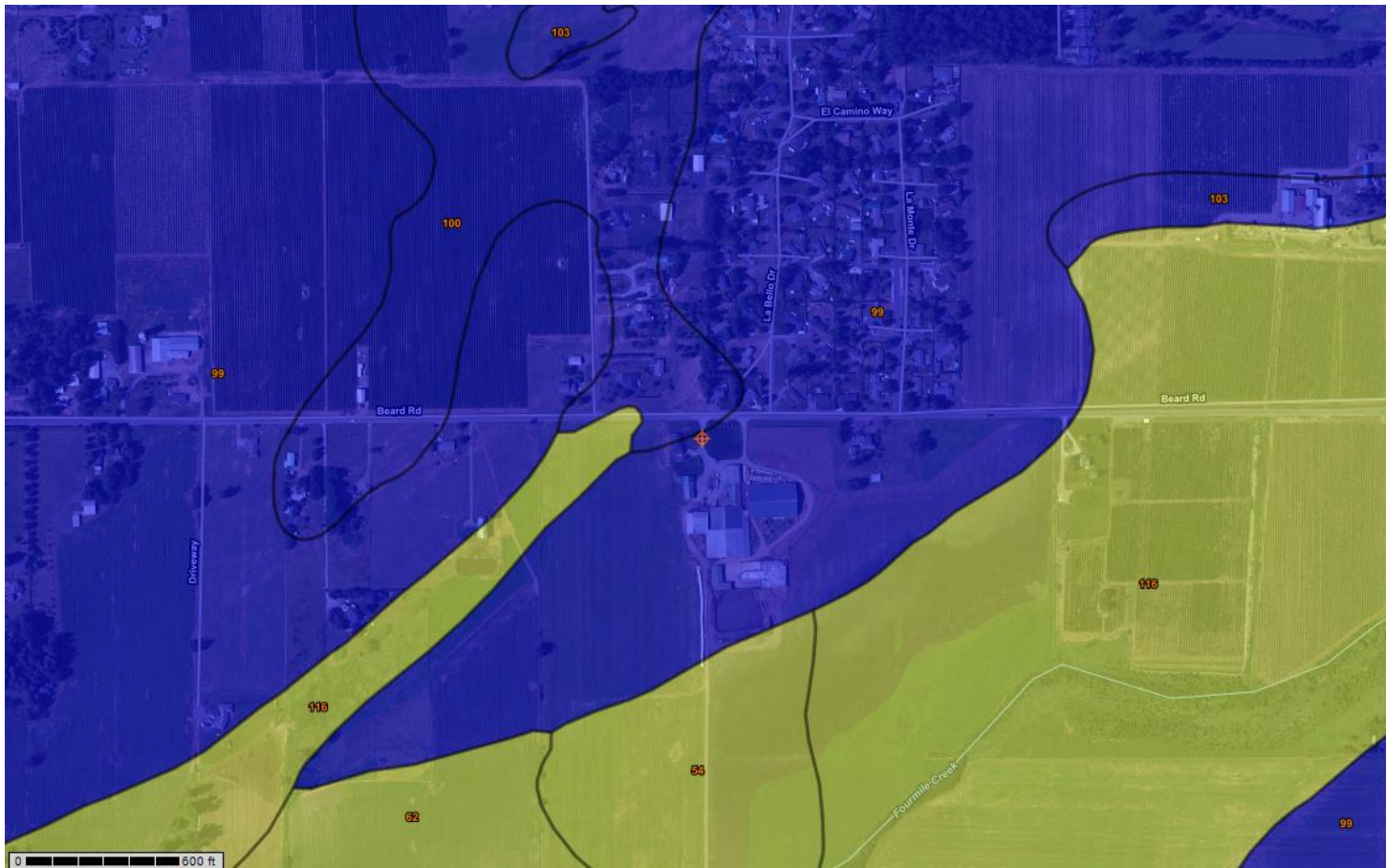
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

BJ Blok & Sons Dairy

687 Beard Rd, Lynden WA ≈ 800 feet from lagoons to Fourmile Creek

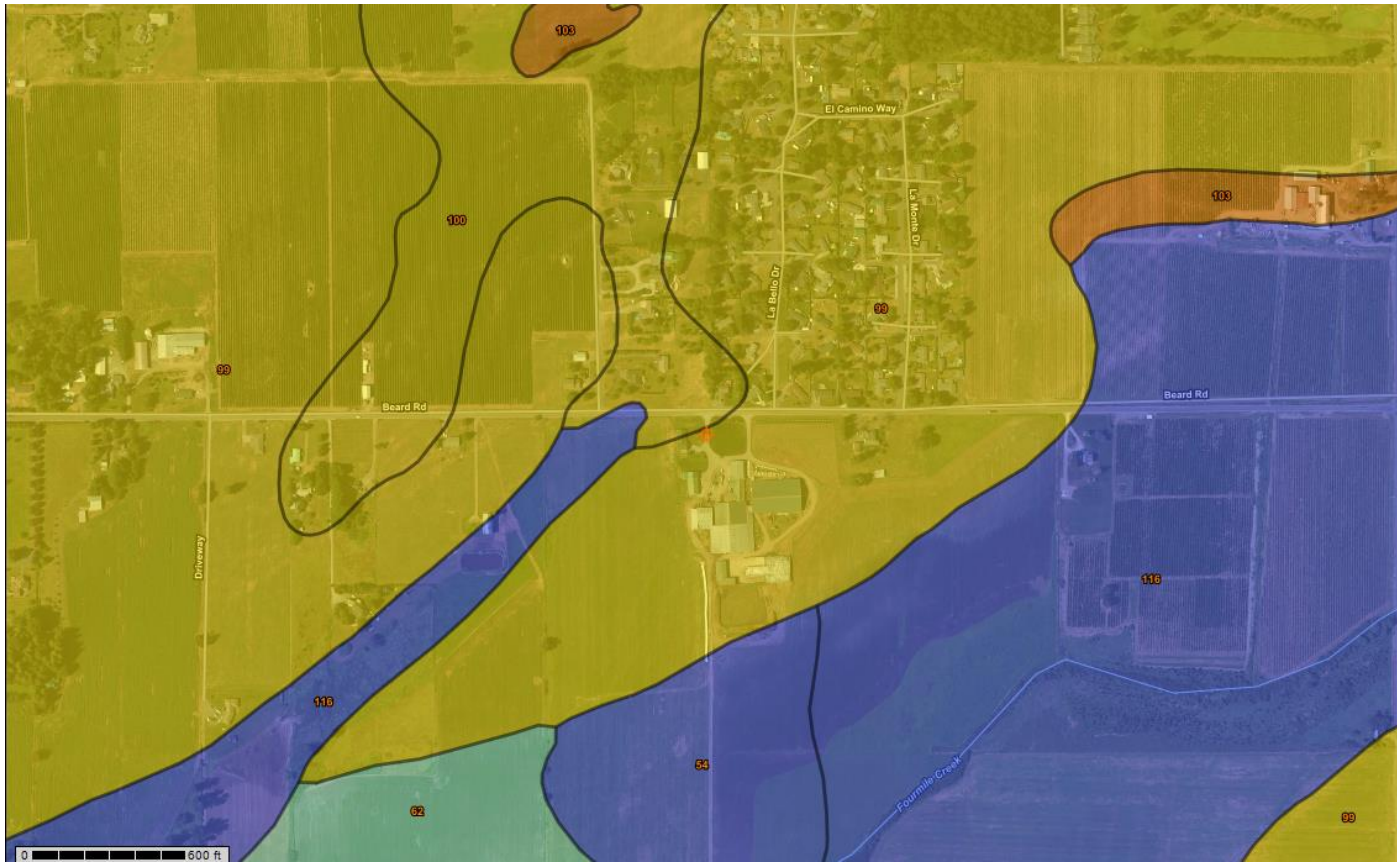






Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained

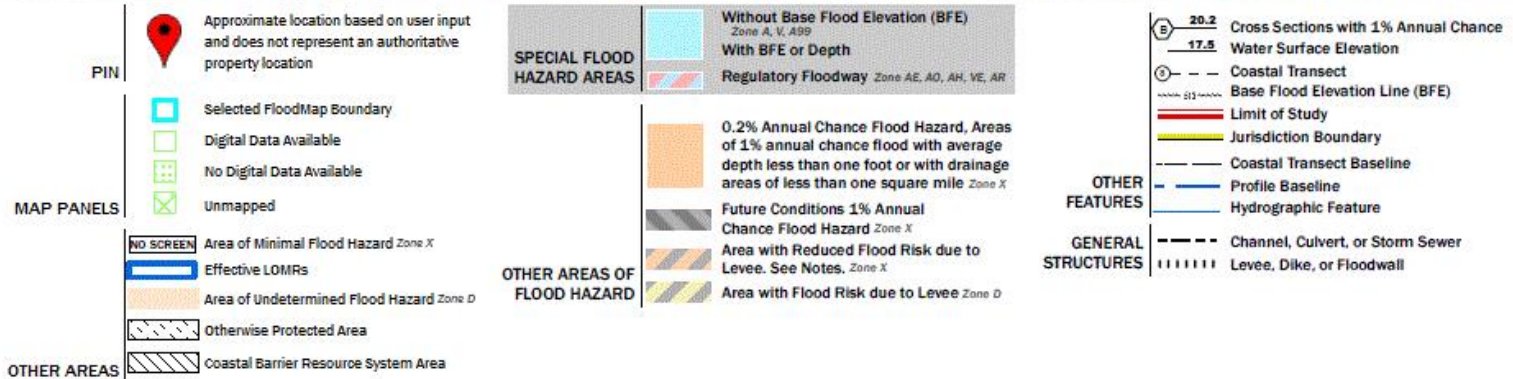
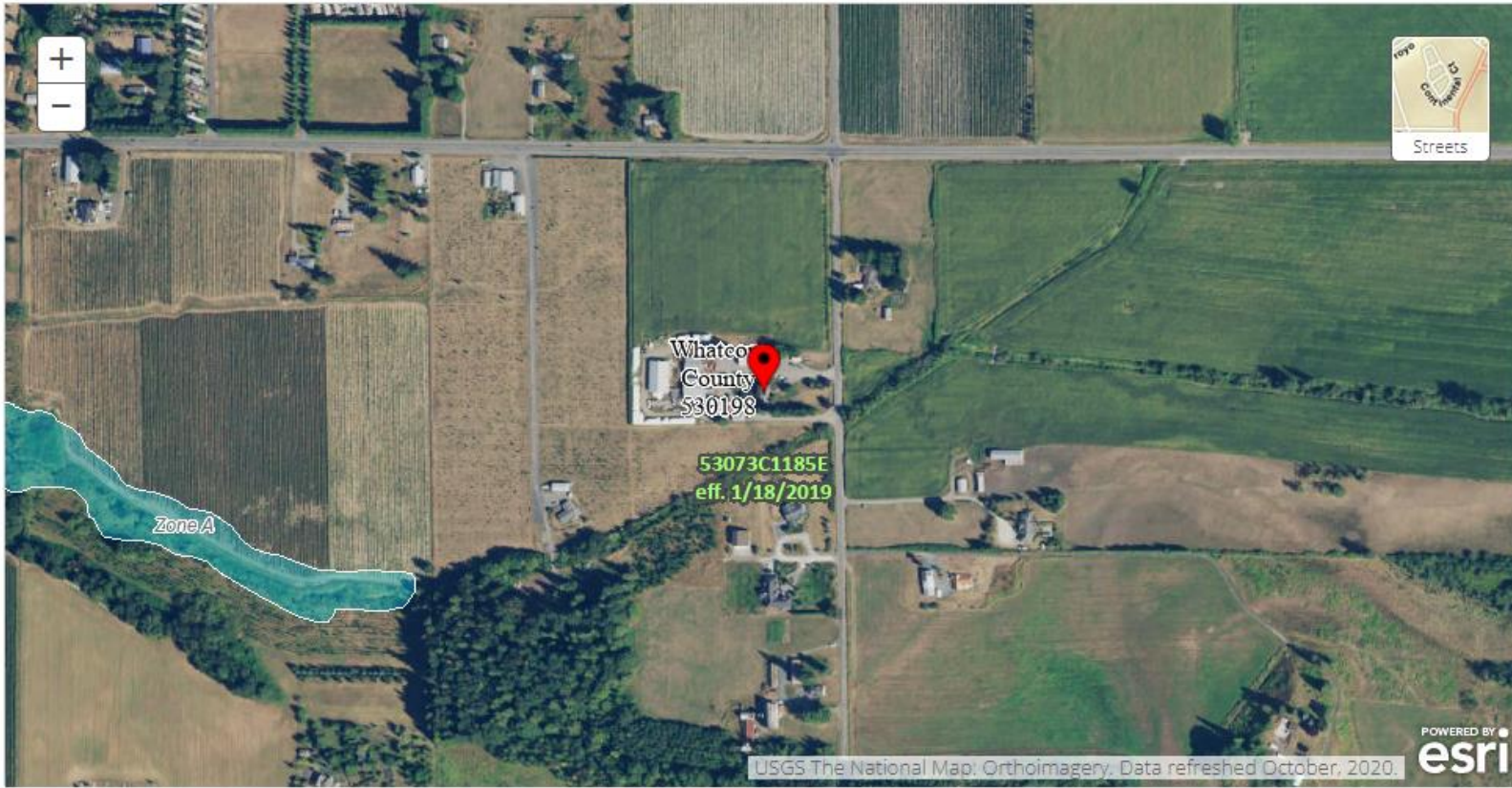
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Deer Creek

Curt and Michael Lagerwey

5643 Aldrich Rd, Bellingham WA \approx 450 feet from lagoon to Deer Creek







Depth to Water Table: 80 cm

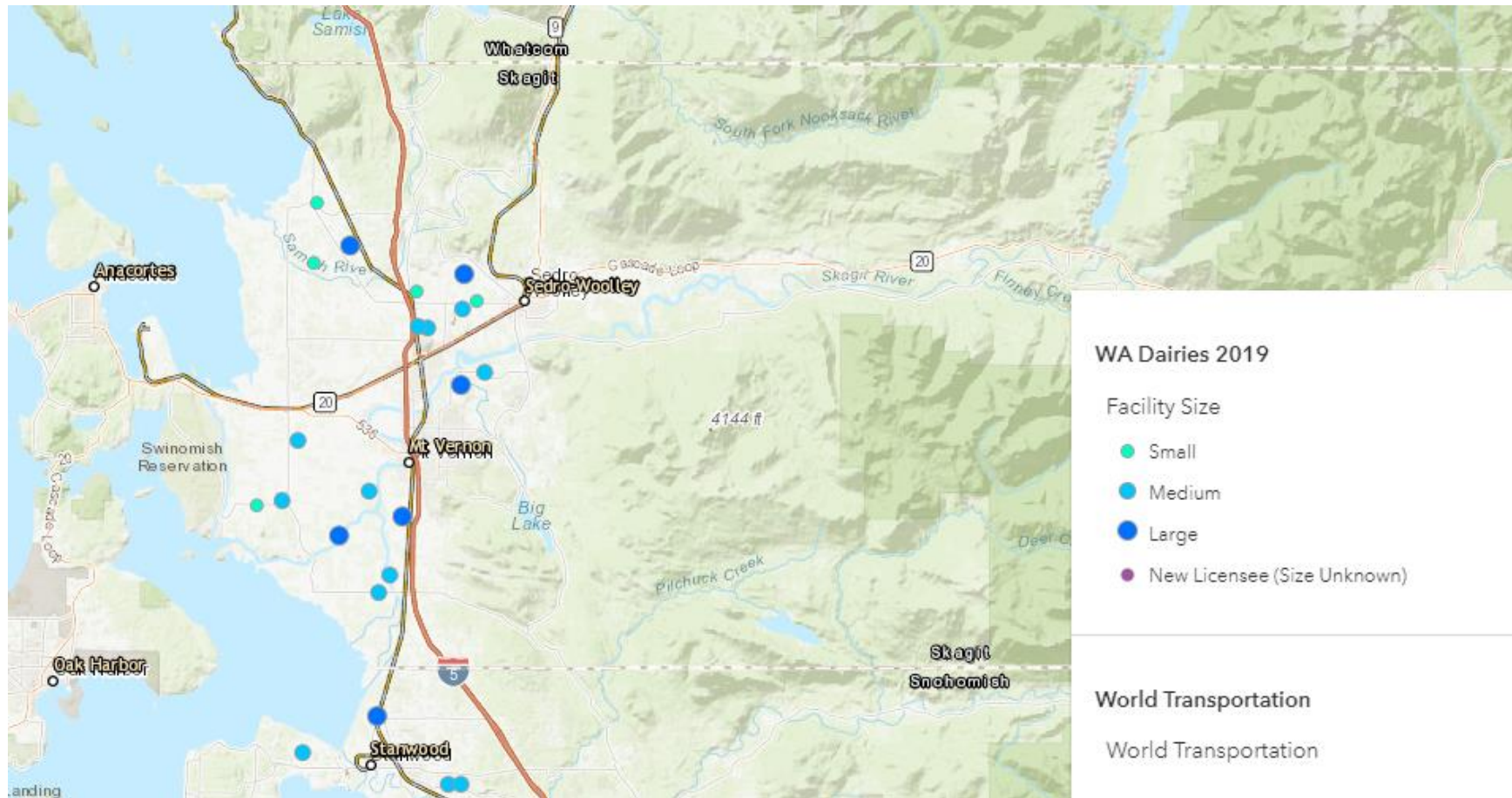


Drainage Class: Somewhat Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Skagit County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



No FEMA Maps available for Upper Skagit County

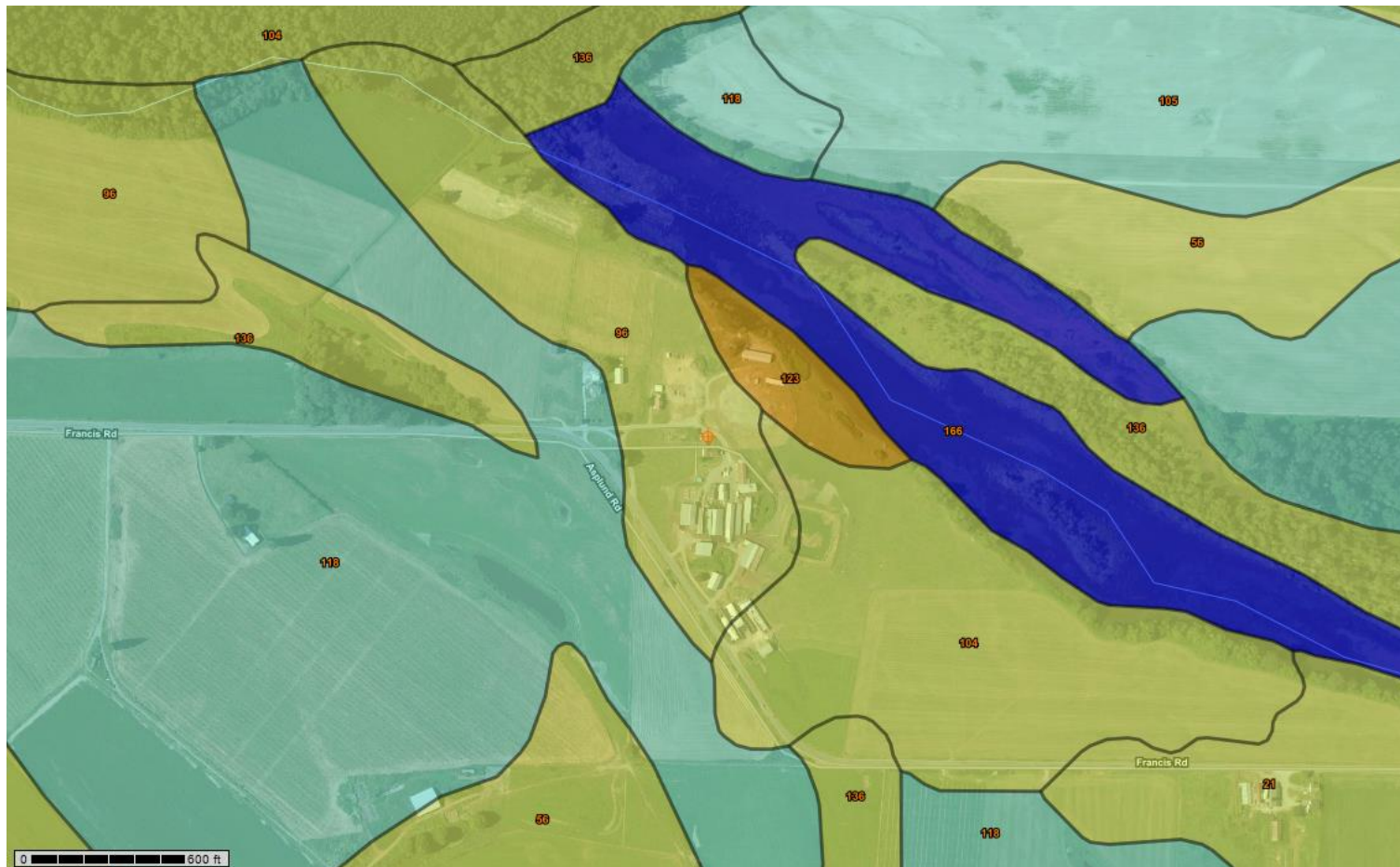
DeBays Slough

Baumgardner Dairy

21760 Francis Rd, Mt. Vernon WA

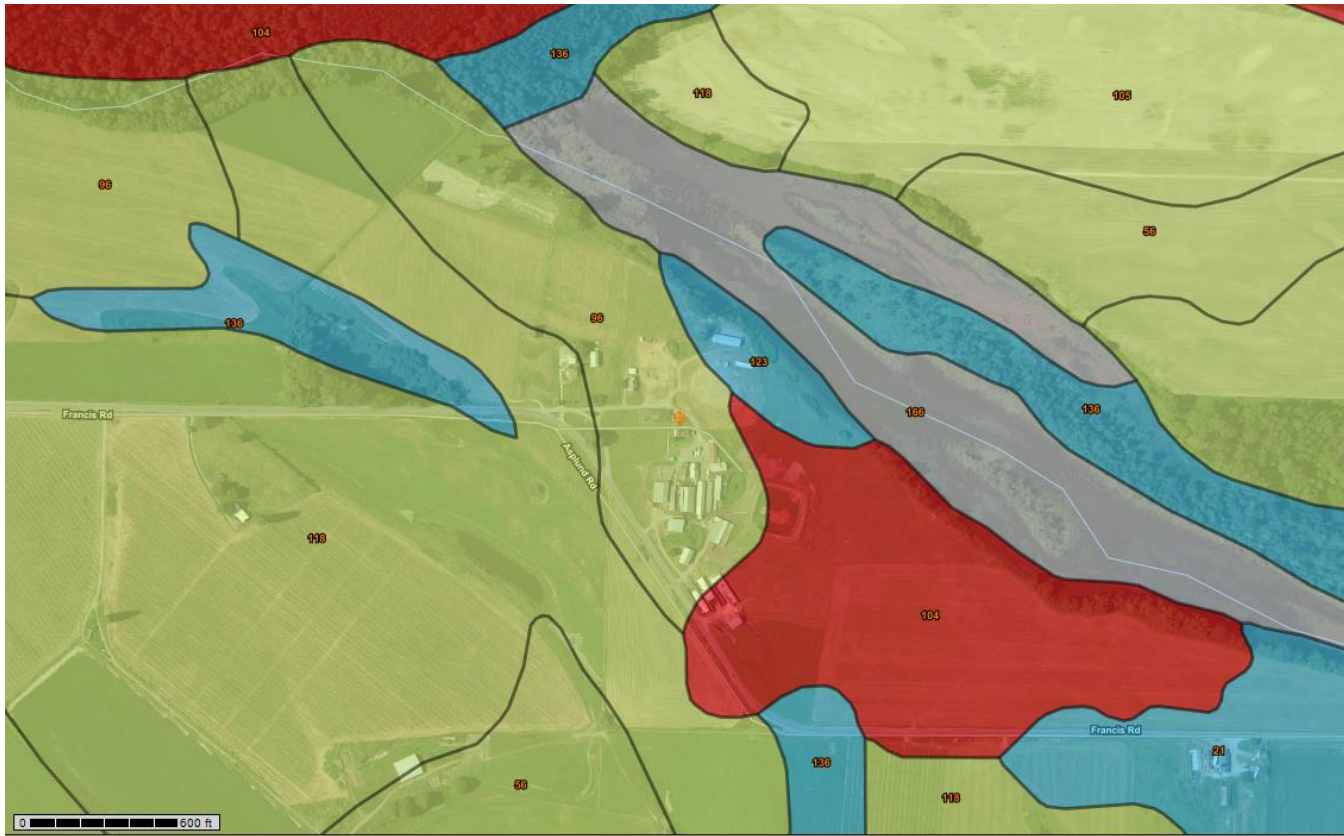
≈ 450 feet from lagoon to DeBays Slough





Depth to Water Table 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained/Excessively Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

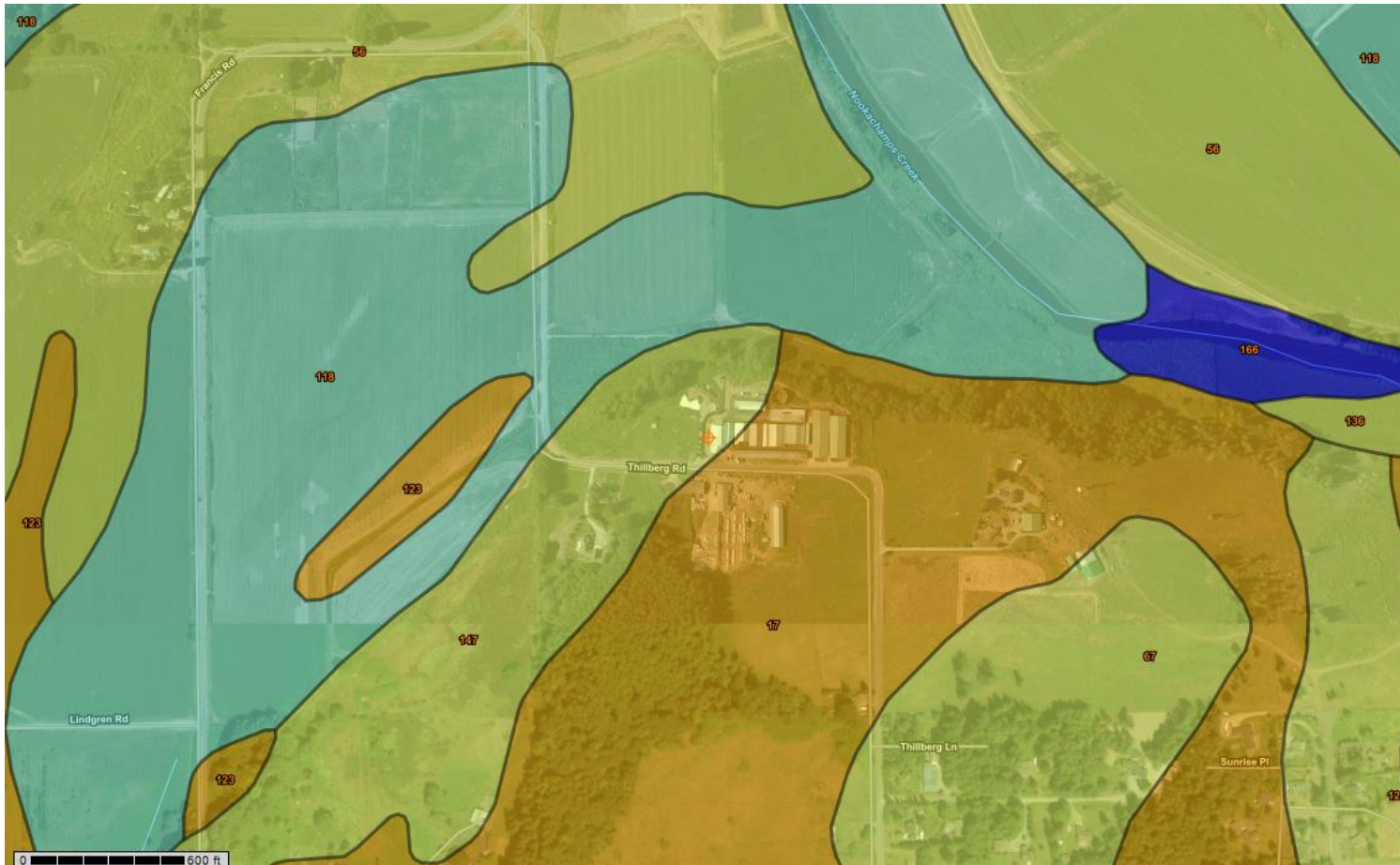
Skagit River

High Valley Dairy

12797 Thillberg Rd, Mt. Vernon WA

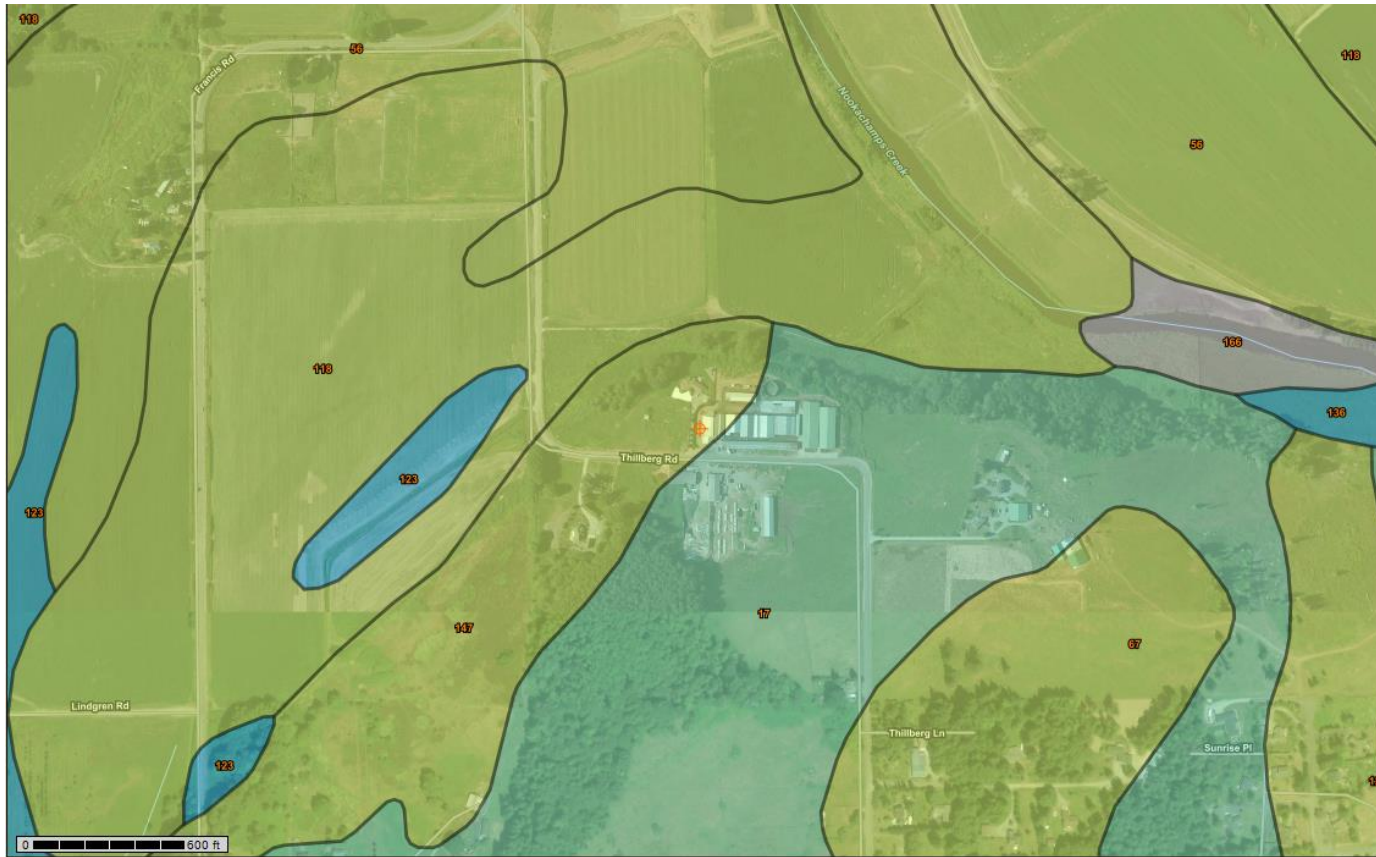
≈ 200 feet from lagoons to Nookachamps Creek, ≈ 1,000 ft to Skagit River





Depth to Water Table: 30 – 54 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Somewhat Poorly Drained/Moderately Well Drained

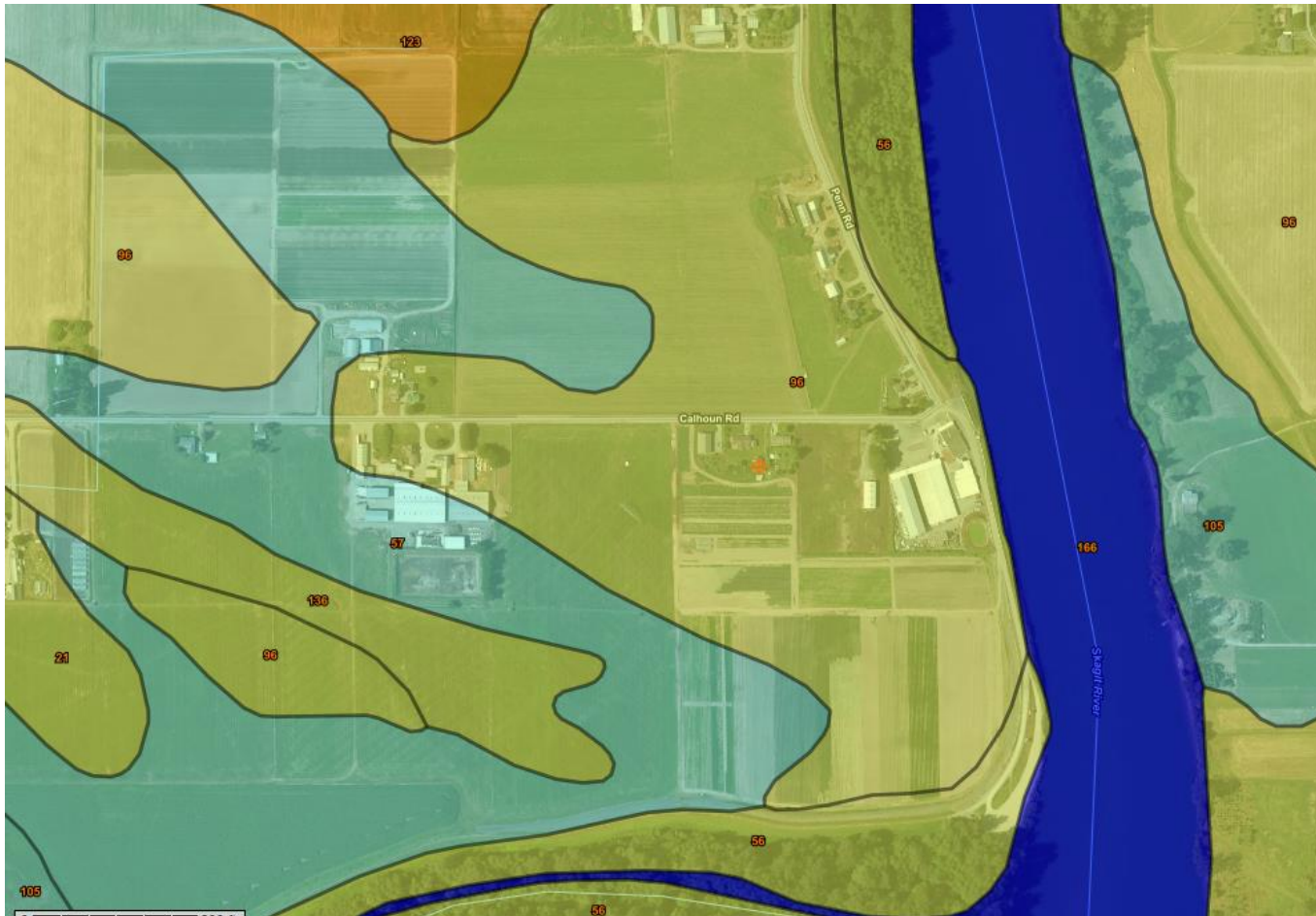
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Edensfall LLC

17230 Calhoun Rd, Mt. Vernon WA

≈ 1,800 feet from large lagoon to Skagit River





Depth to Water Table: 107 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Bayside Dairy LLC

18550 Hickox Rd, Mt. Vernon WA

≈ 3,500 feet from lagoon to Skagit River





Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

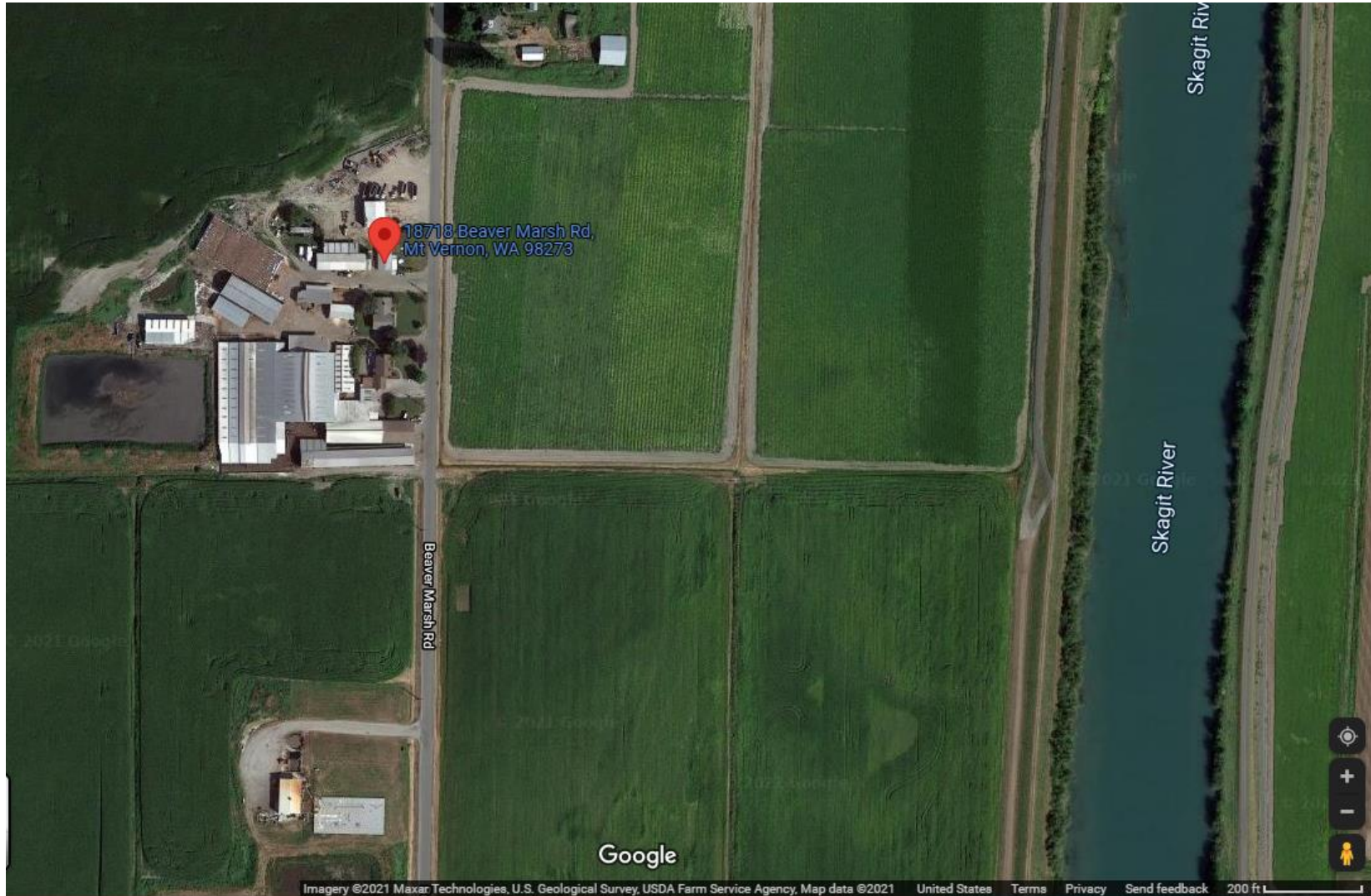


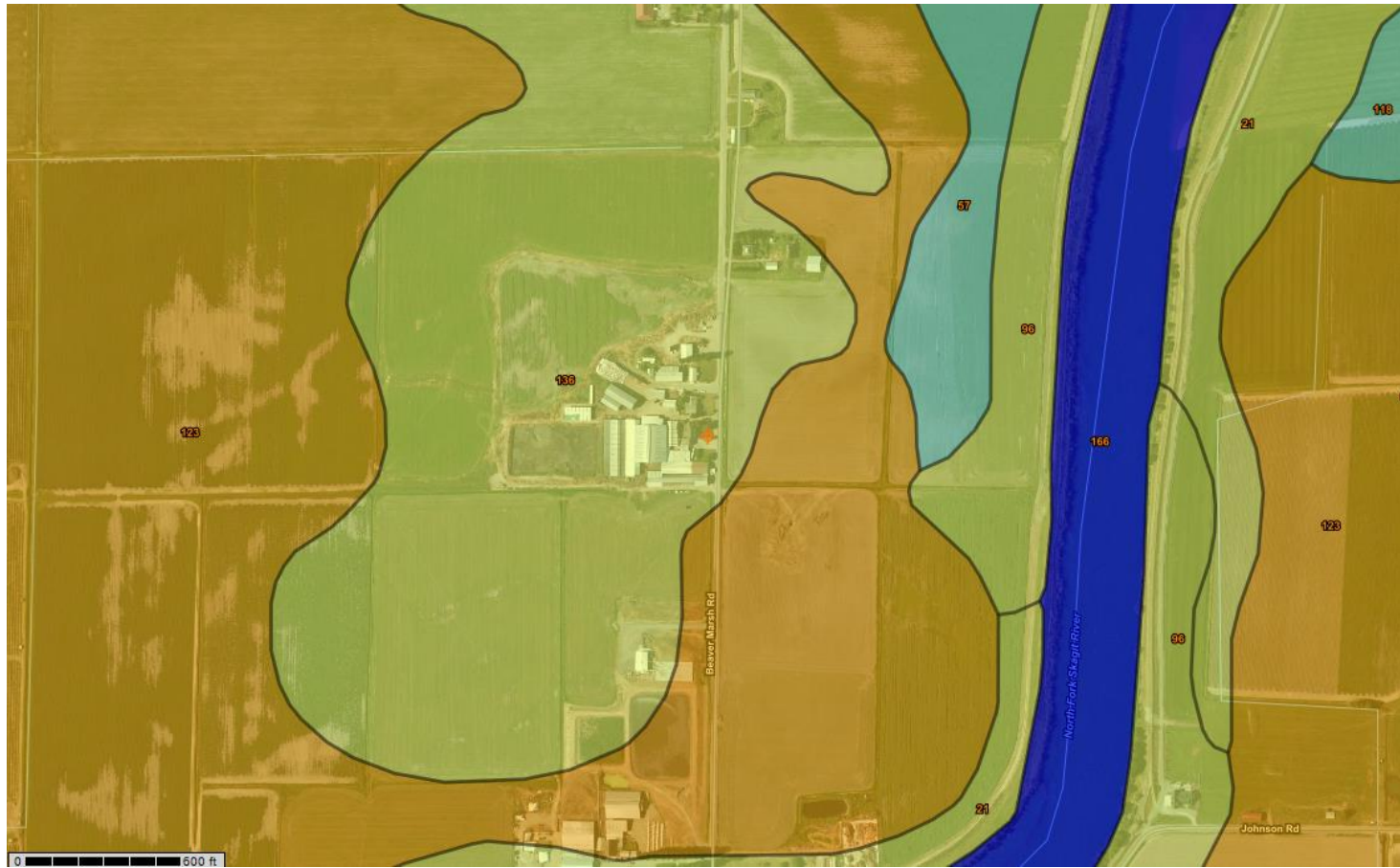
Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Harmony Dairy LLC

18718 Beaver Marsh Rd, Mt. Vernon WA ≈ 1,800 feet from lagoon to Skagit River





Depth to Water Table: 35 – 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Summers Drive and Beaver Marsh Rd, Mt. Vernon WA

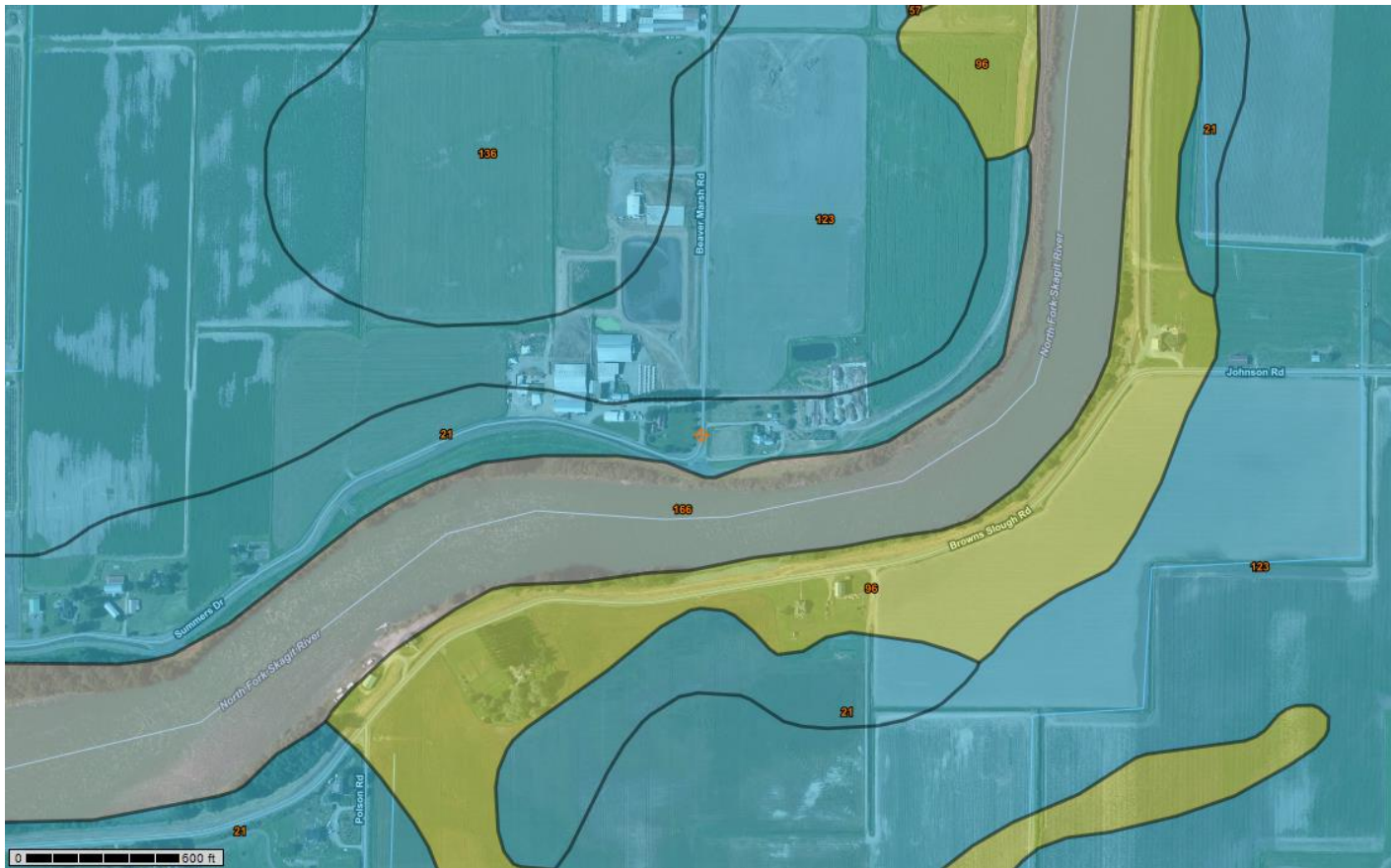
≈ 800 feet from lagoons to Skagit River





Depth to Water Table: 35 – 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

River Bend Dairy

20281 Dike Rd, Mt. Vernon WA

≈ 750 feet from lagoon to Skagit River





Depth to Water Table: 35 – 70 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

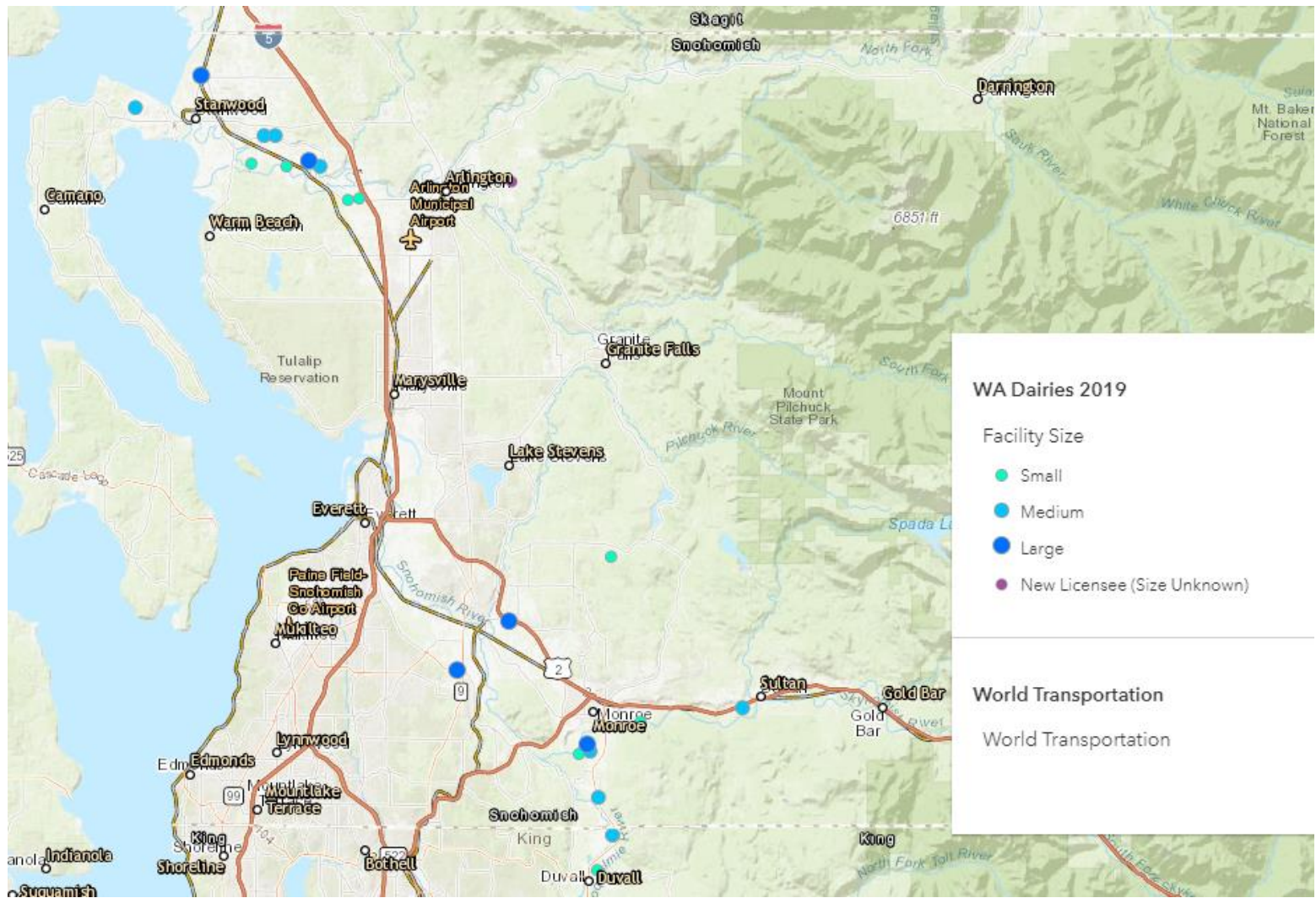


Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Snohomish County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



Stillaguamish River

SDI Farms #2

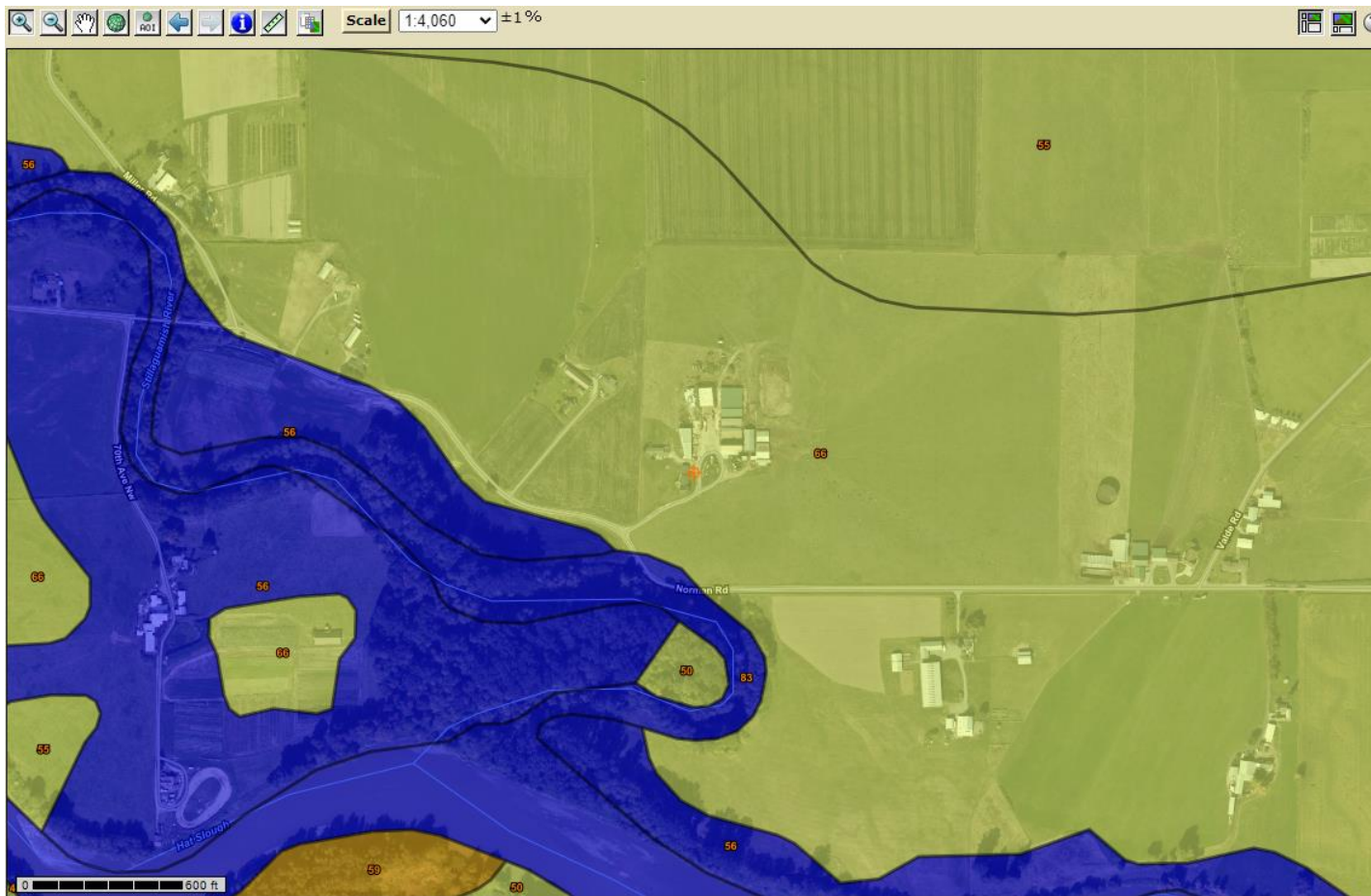
6321 Norman Rd, Stanwood WA

≈ 2,000 feet from lagoon to Stillaguamish River



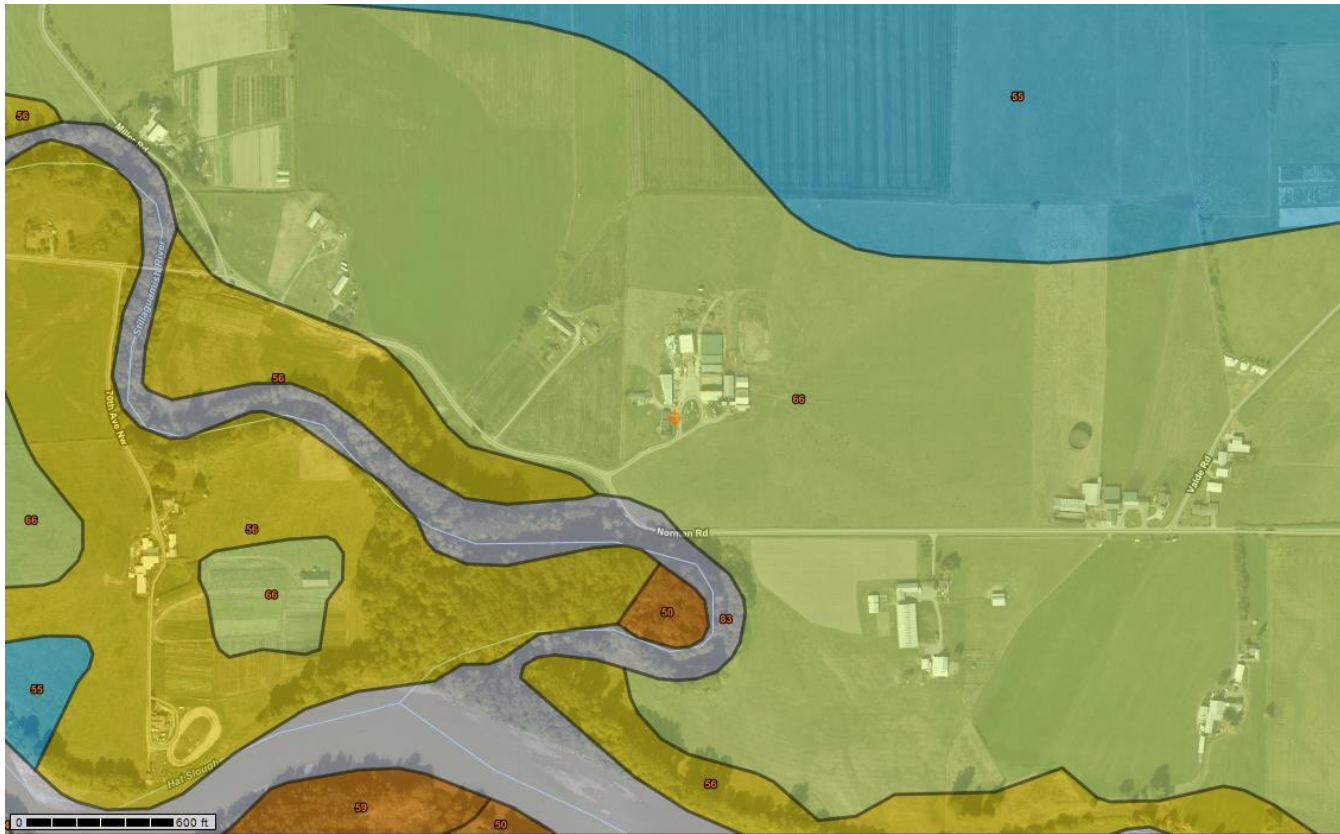


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location 	<p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped 	<p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR 	<p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Normanna Farm

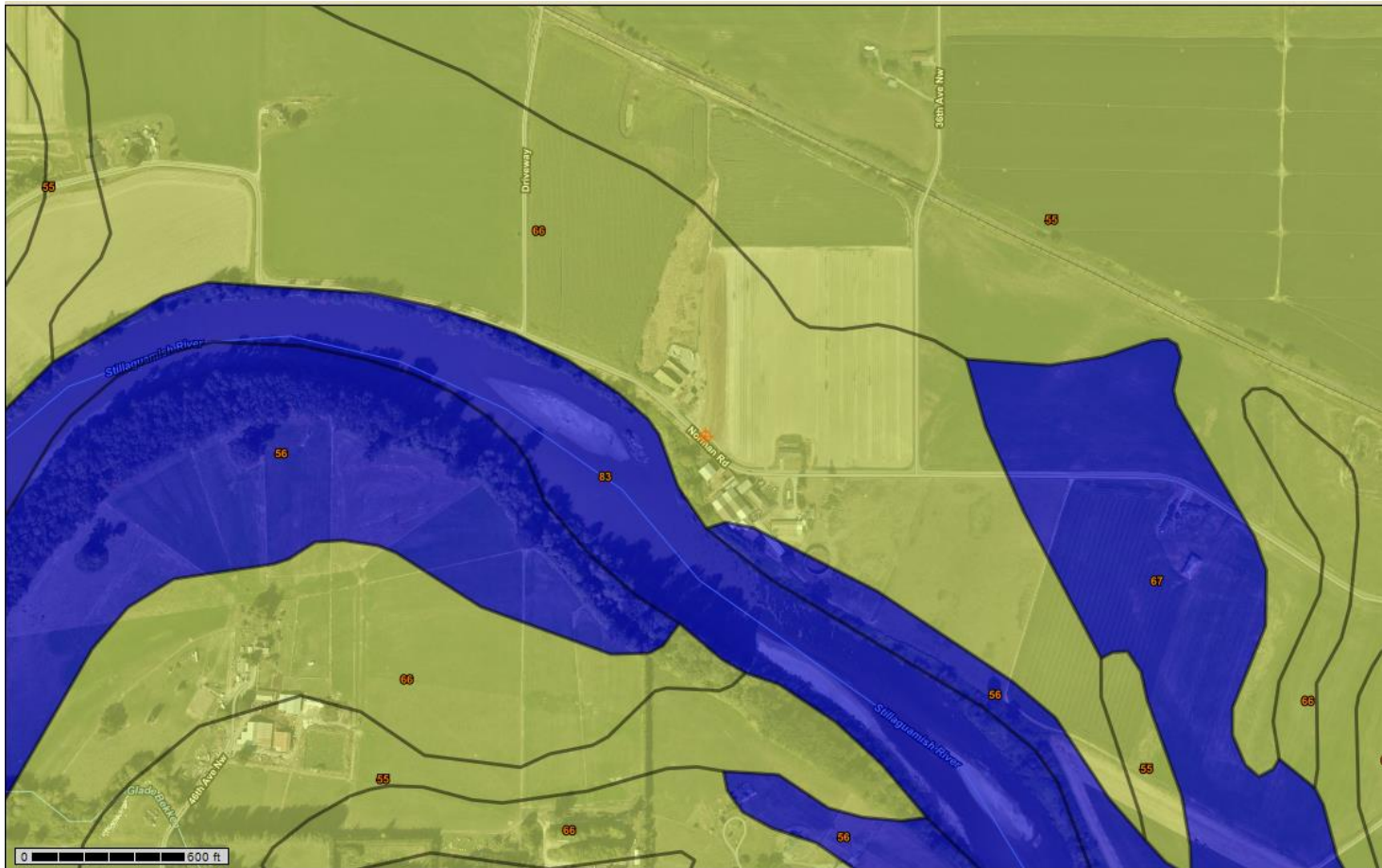
3891 Norman Rd, Stanwood WA

≈ 150 feet from manure storage to Stillaguamish River



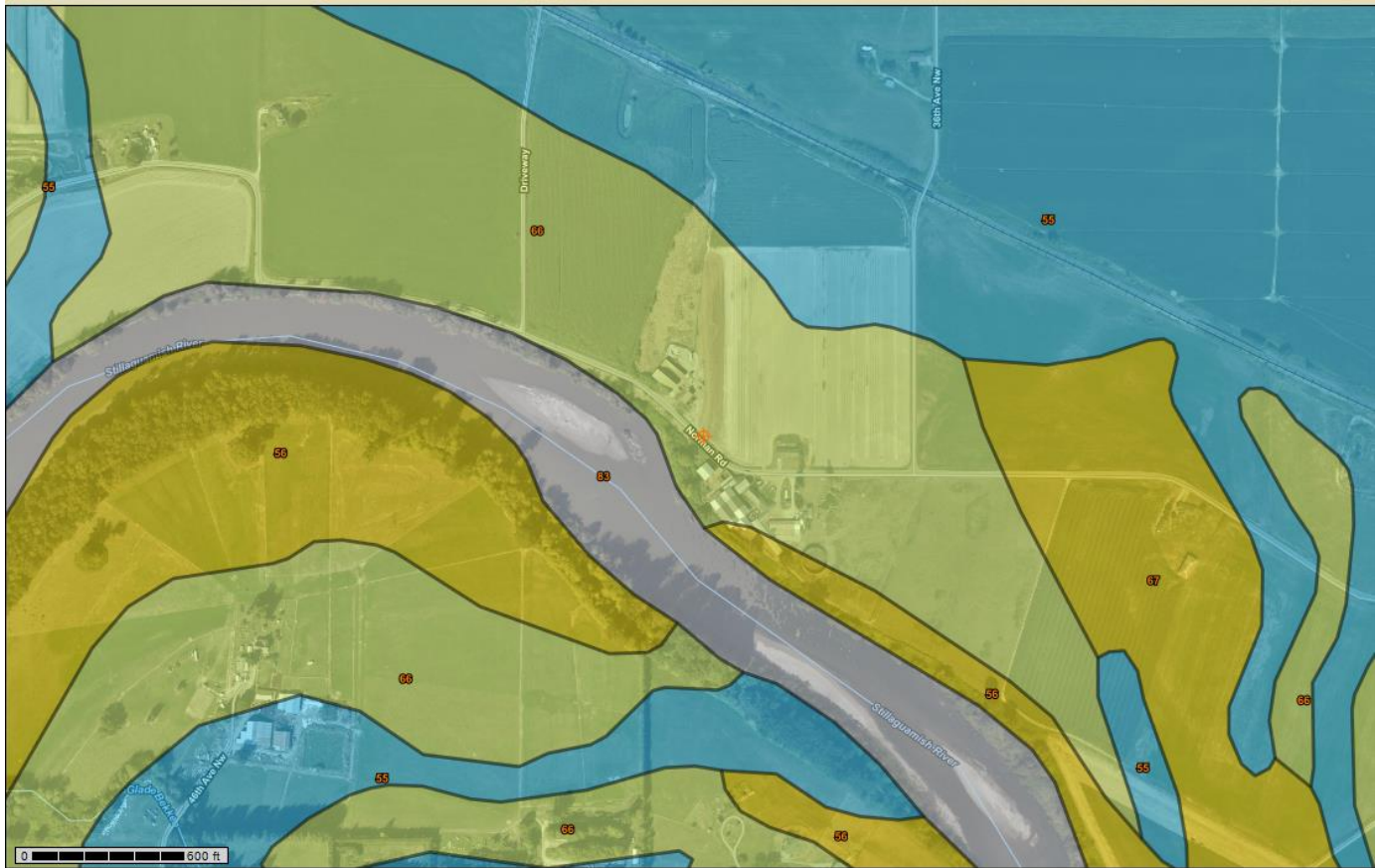


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



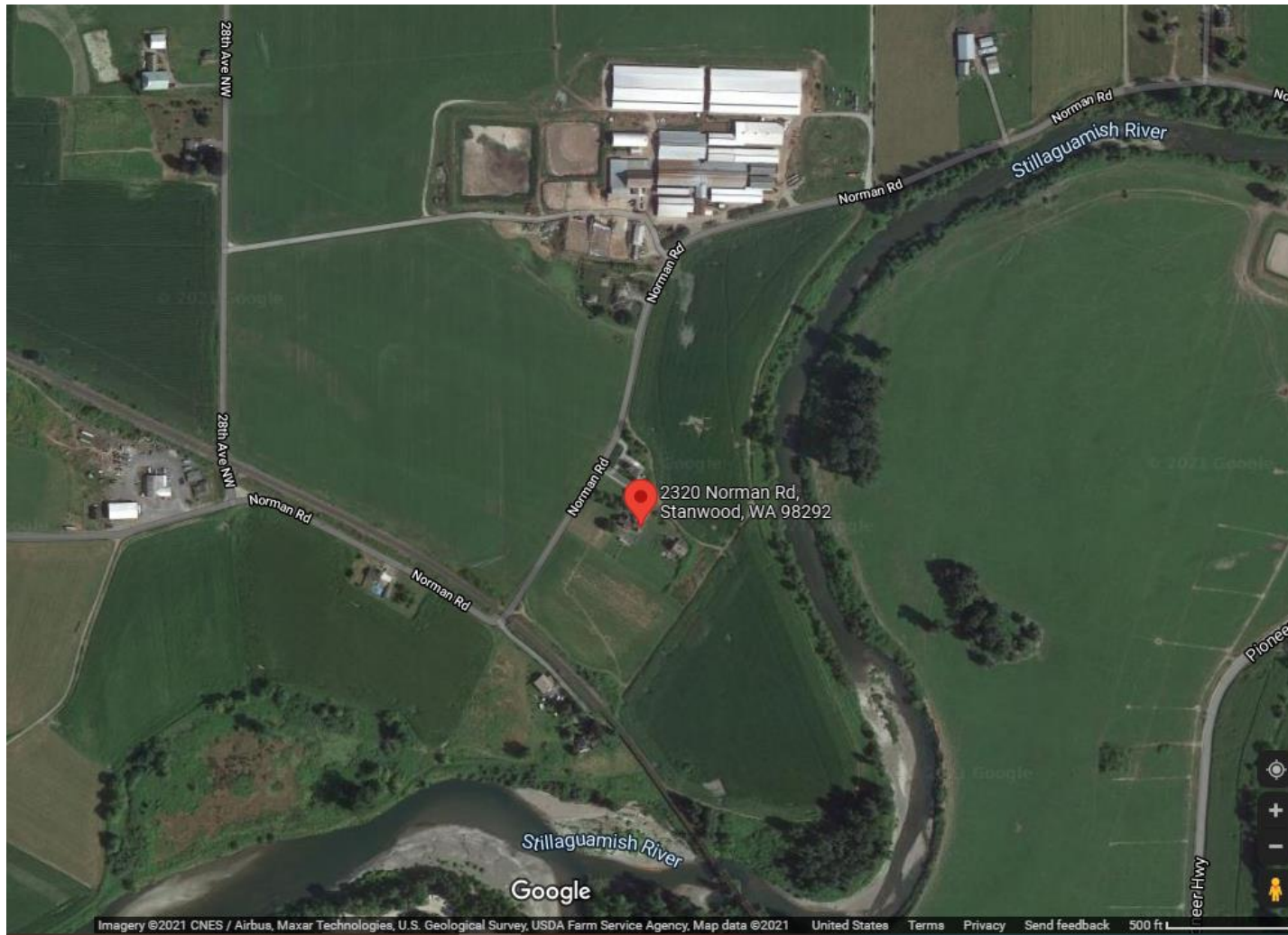
Drainage Class: Moderately Well Drained

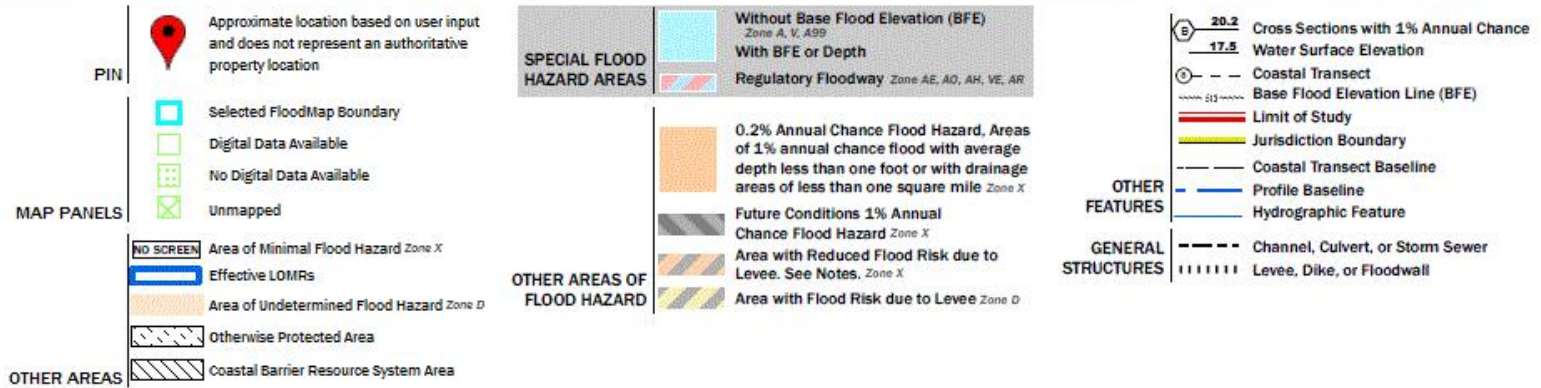
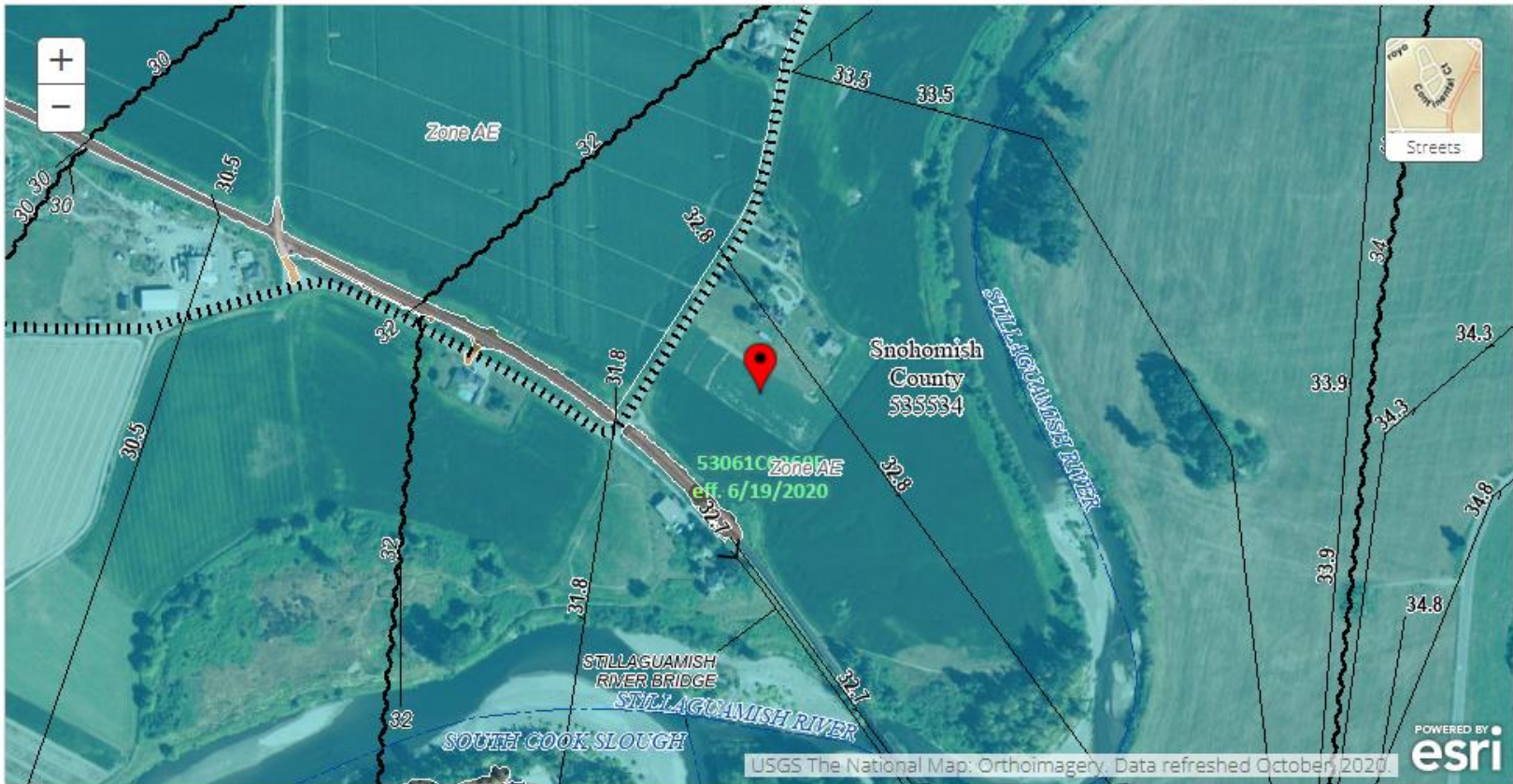
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

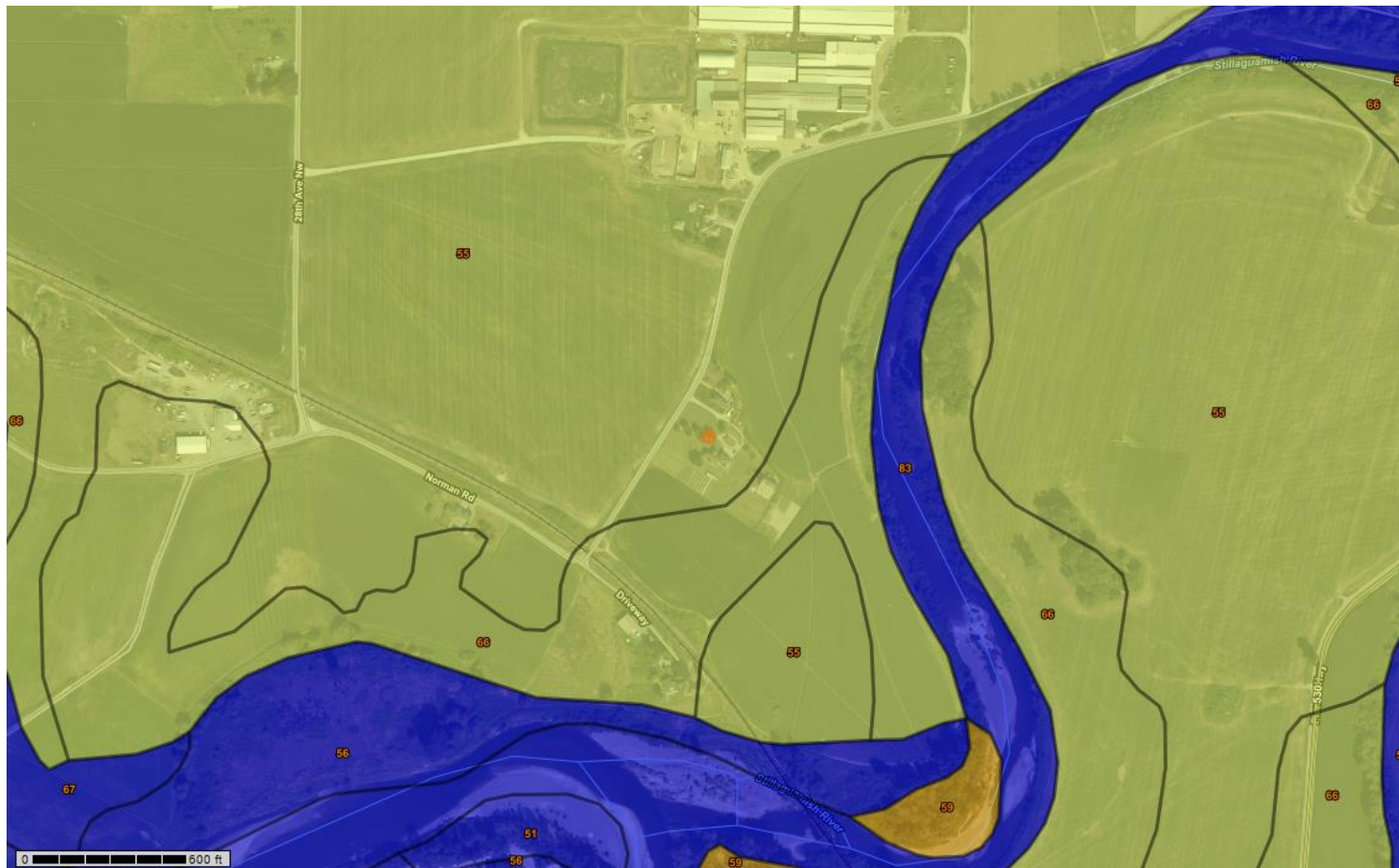
Natural Milk LLC

2320 Norman Rd, Stanwood WA

1,500 feet from lagoon to Stillaguamish River







Depth to Water Table: 90 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Poorly Drained

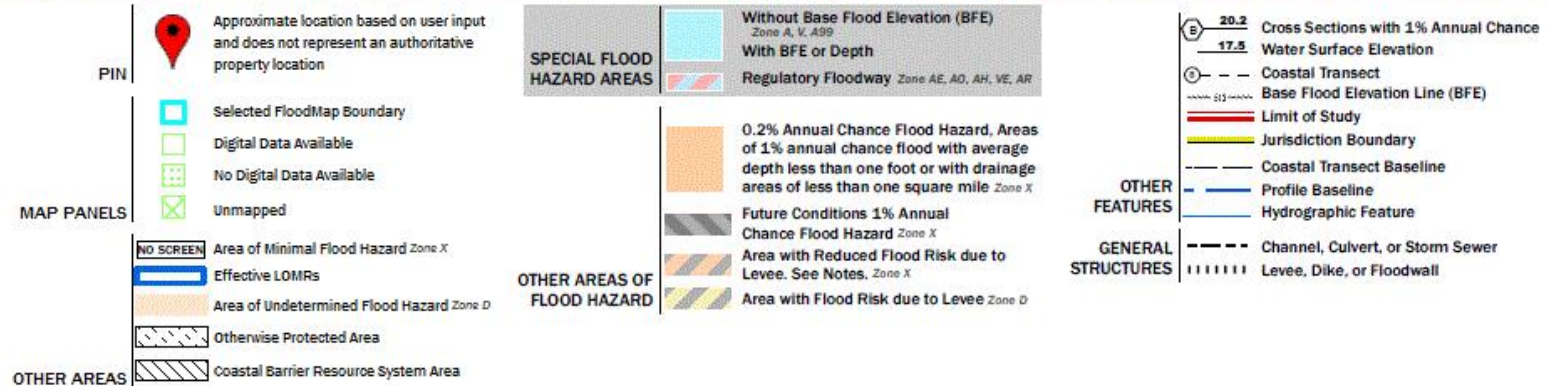
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

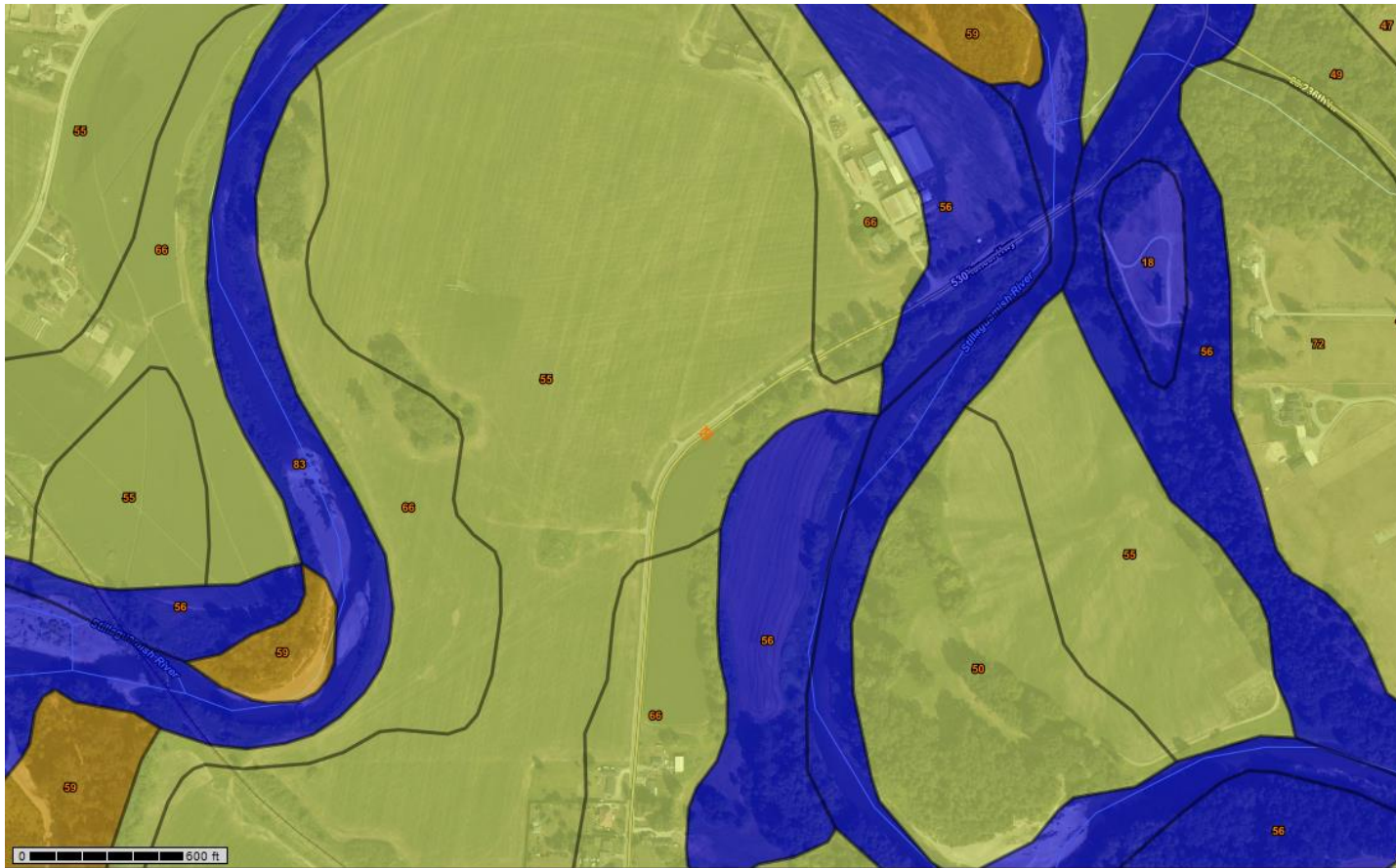
Natural Milk Farms 2

23529 Pioneer Highway, Stanwood WA

≈ 300 feet from lagoon to Stillaguamish River

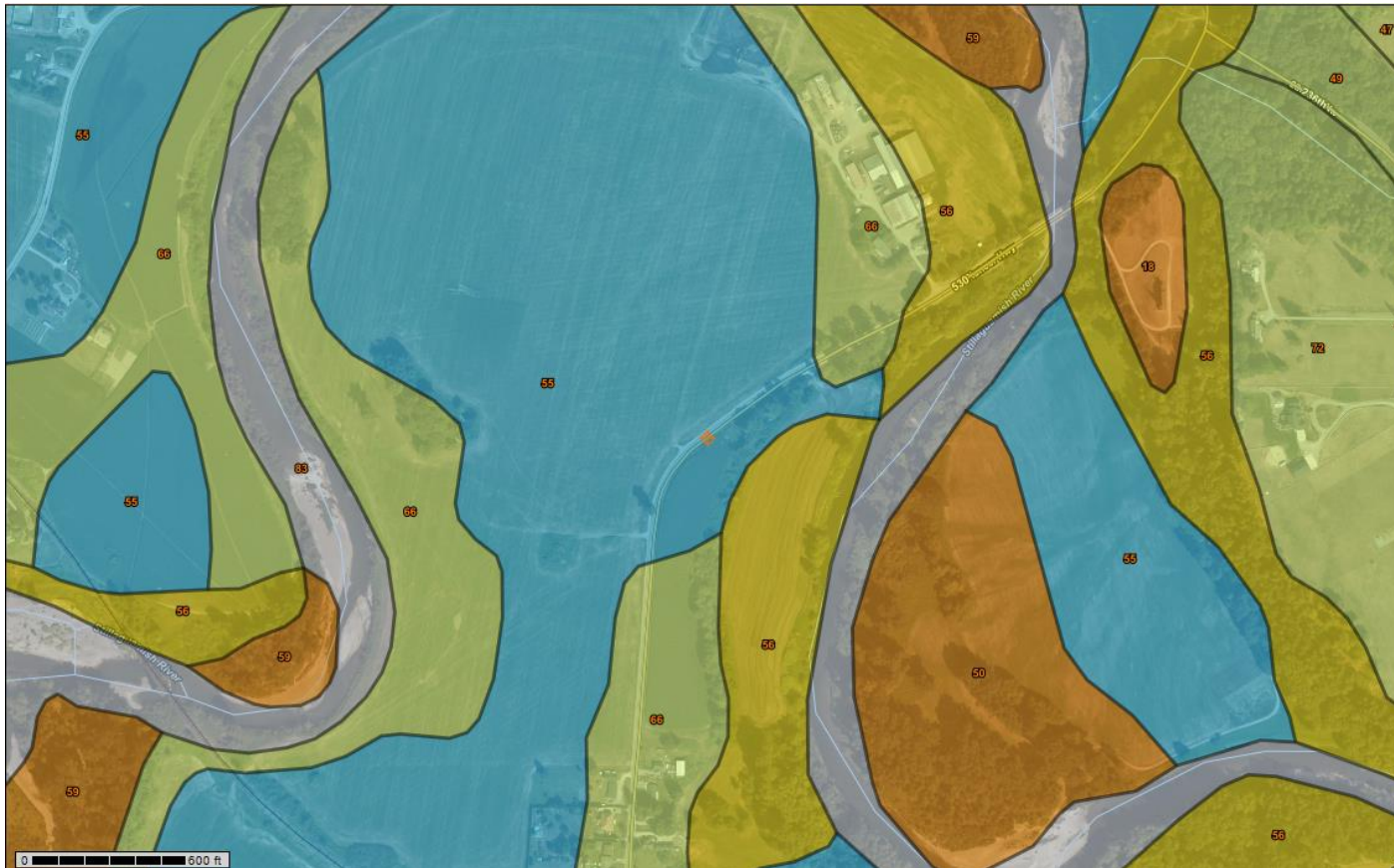






Depth to Water Table: 90 – 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained/Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

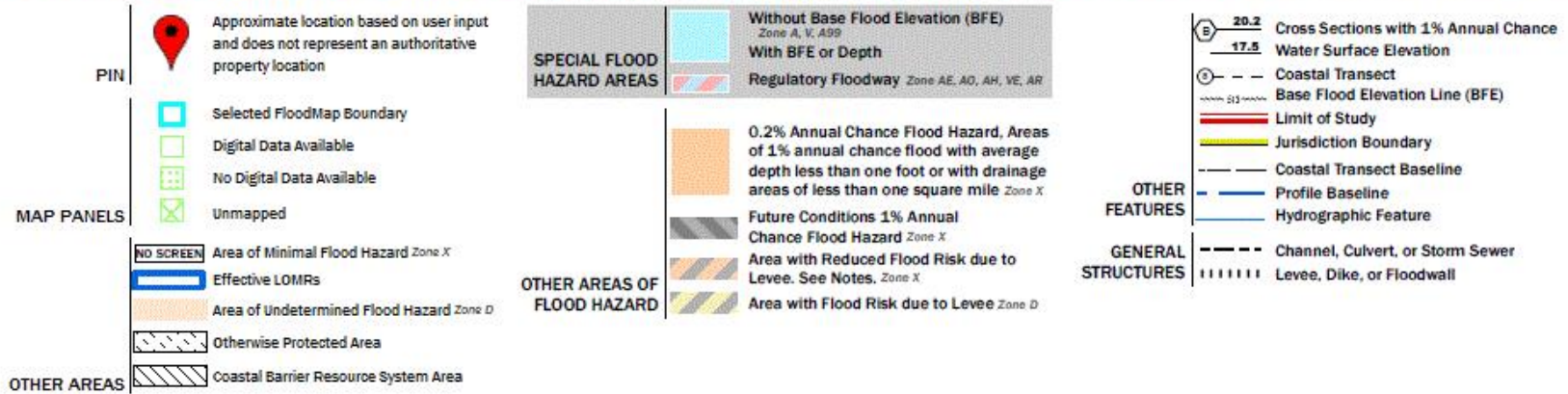
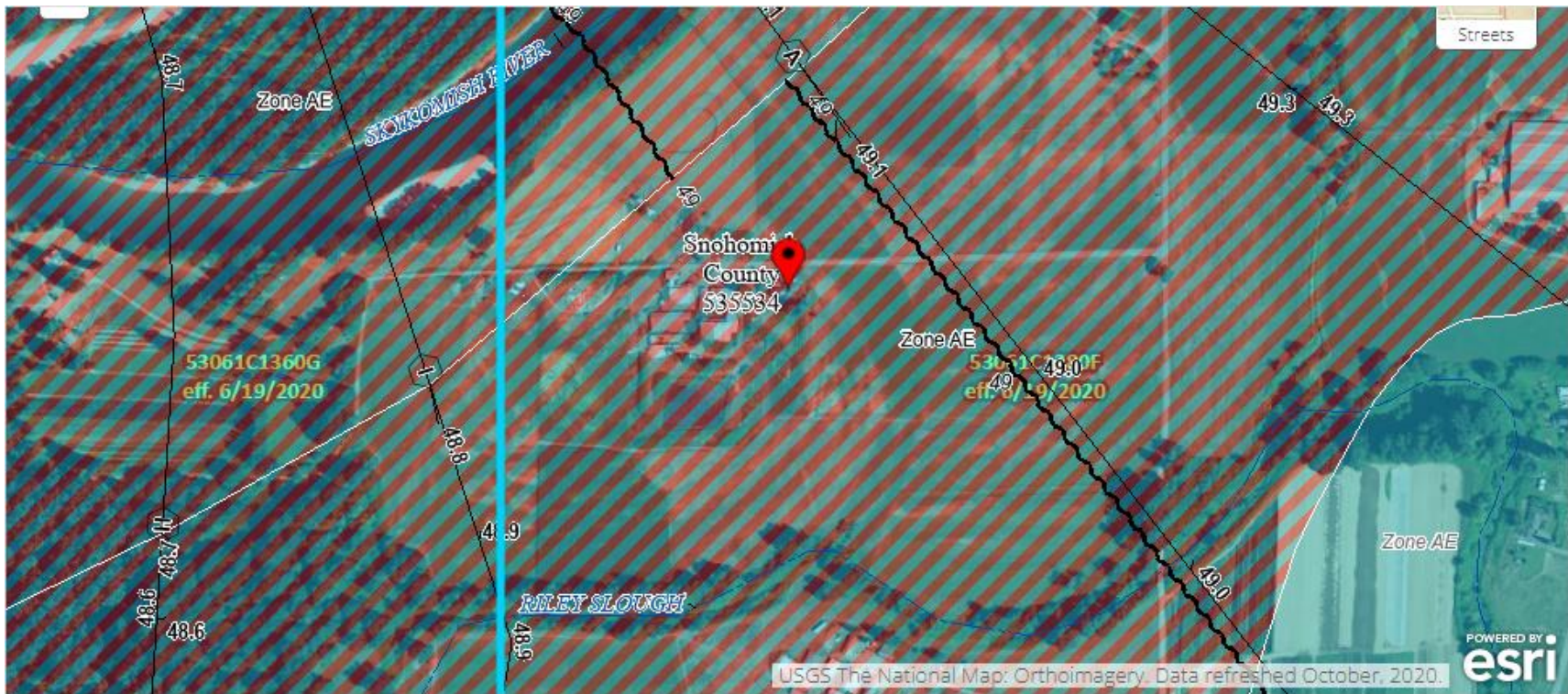
Snohomish/Skykomish River

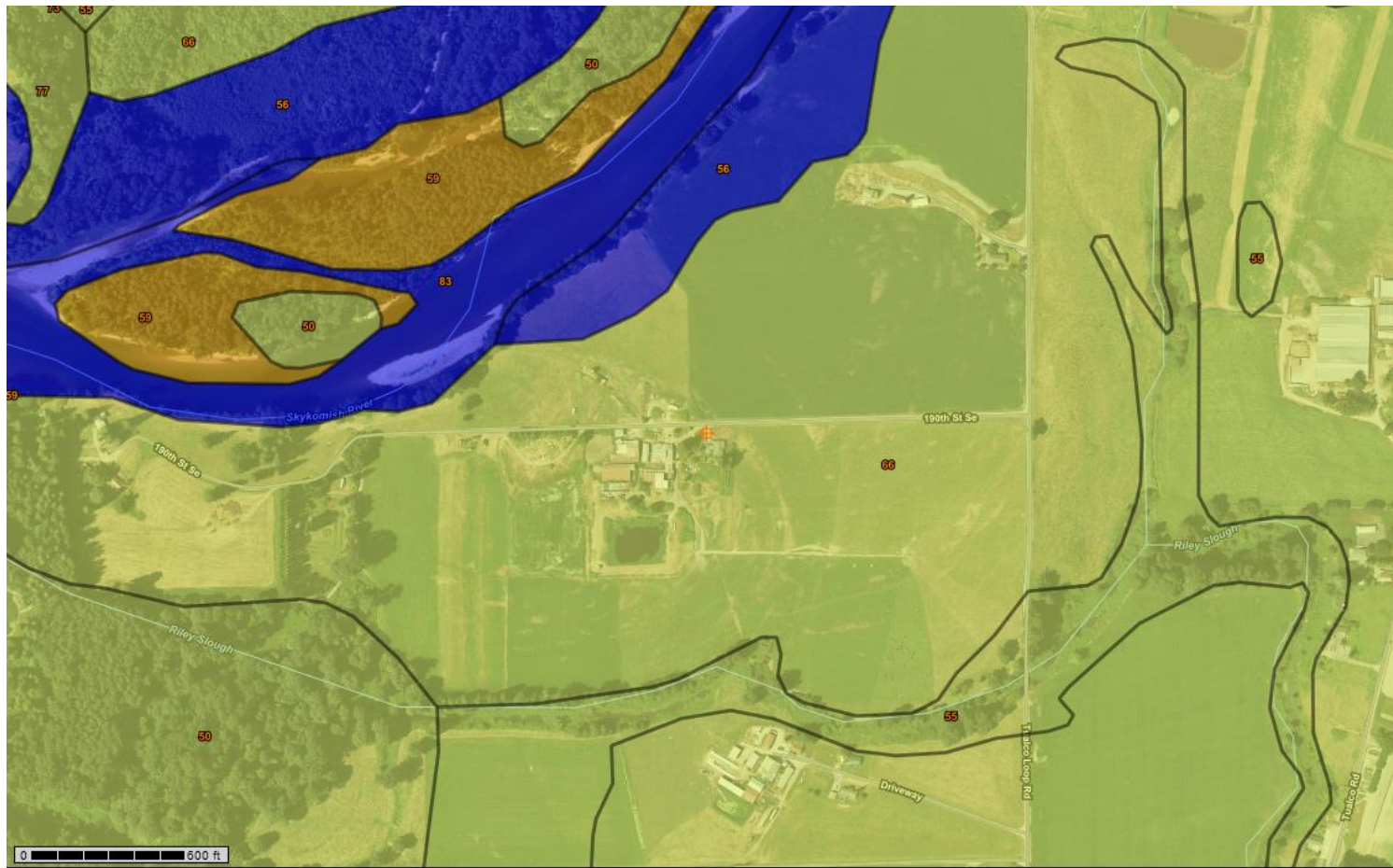
Frohning Dairy

17506 SE 190th St., Monroe WA

≈ 1,000 feet from lagoon to Skykomish River, in a flood plain







Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

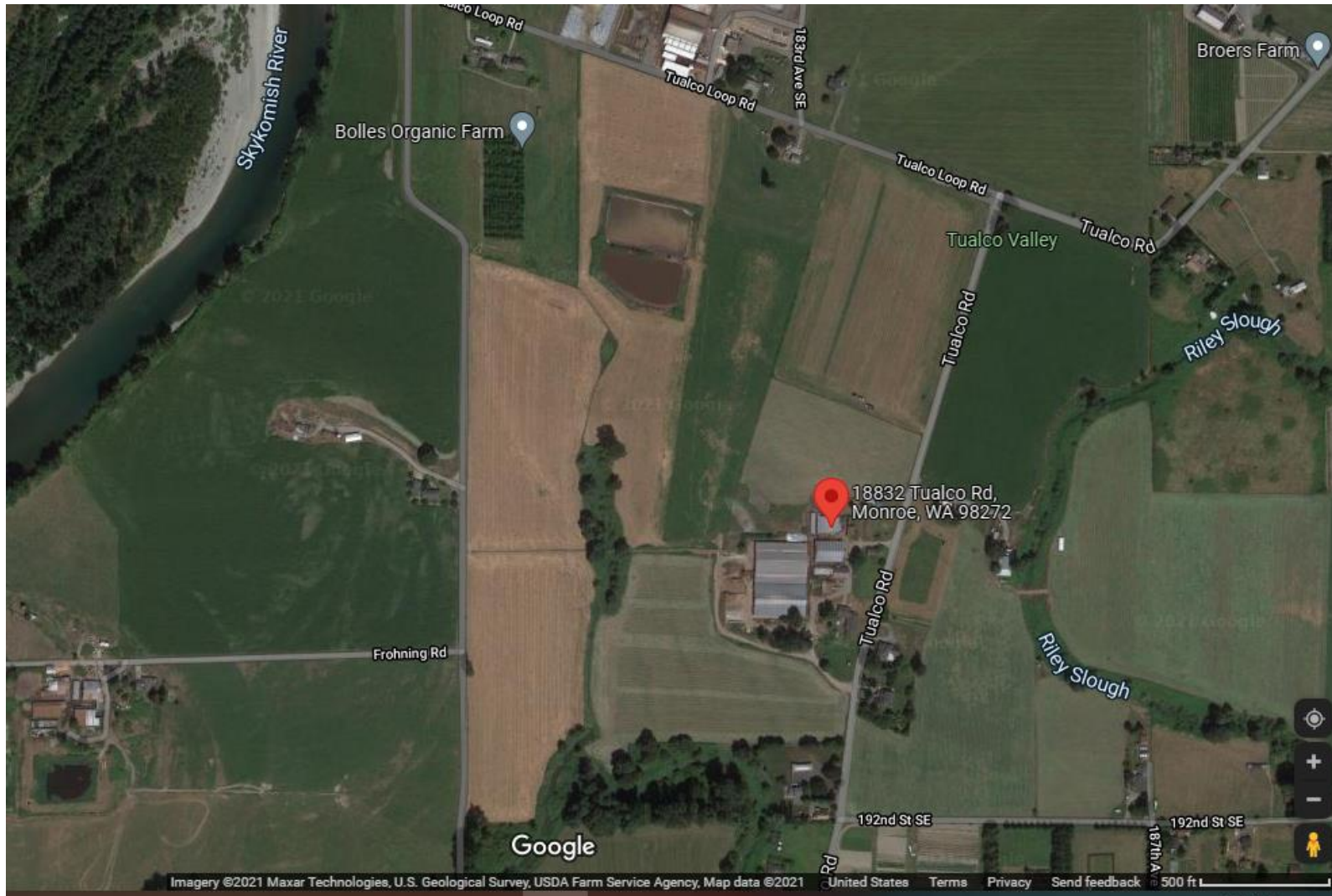


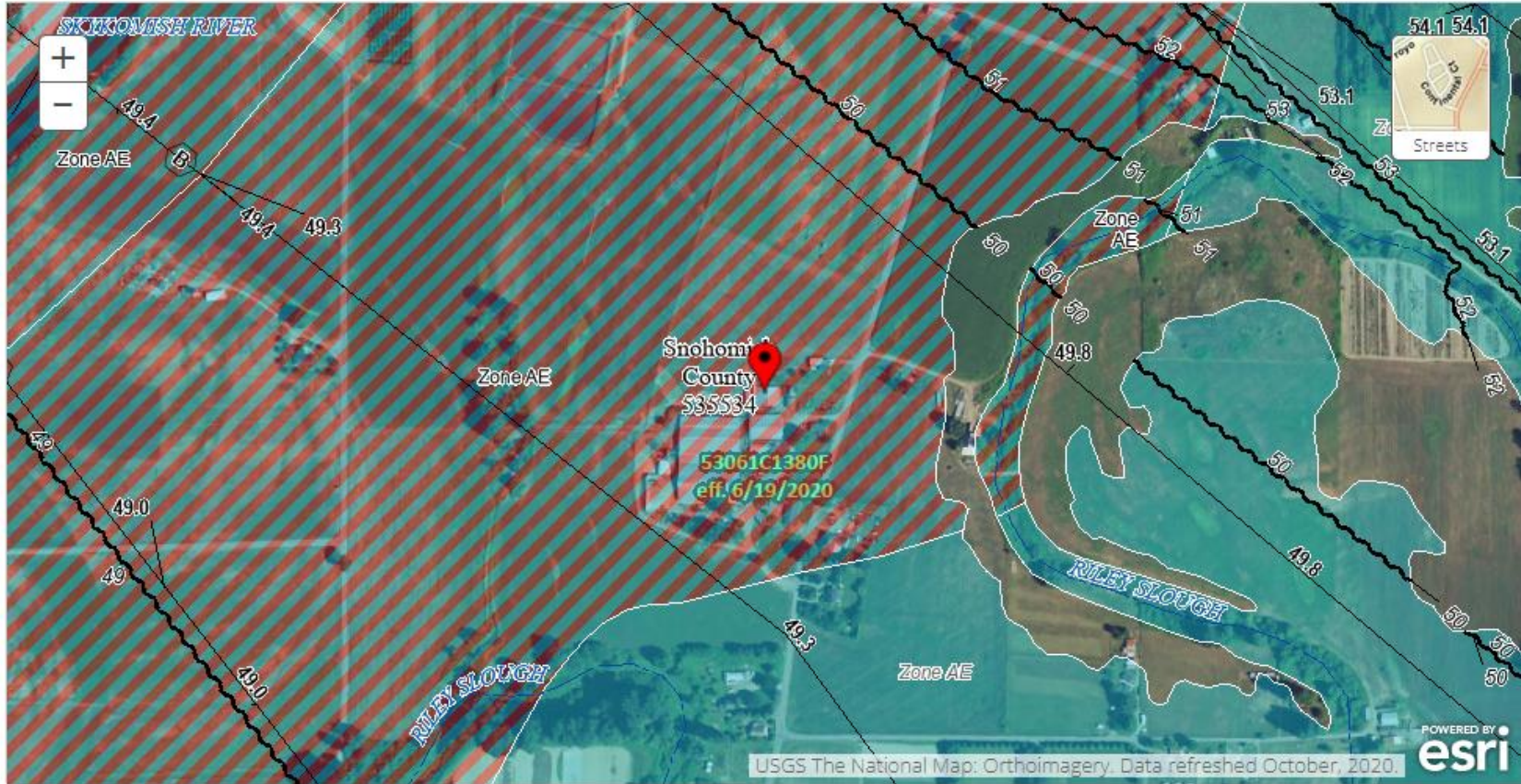
Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

John Deck Dairy

18832 Tualco Rd, Monroe WA \approx 1,200 feet from lagoons to Skykomish River, in a flood plain





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>NO SCREEN Area of Minimal Flood Hazard Zone X</p> <p> Effective LOMRs</p> <p> Area of Undetermined Flood Hazard Zone D</p>	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

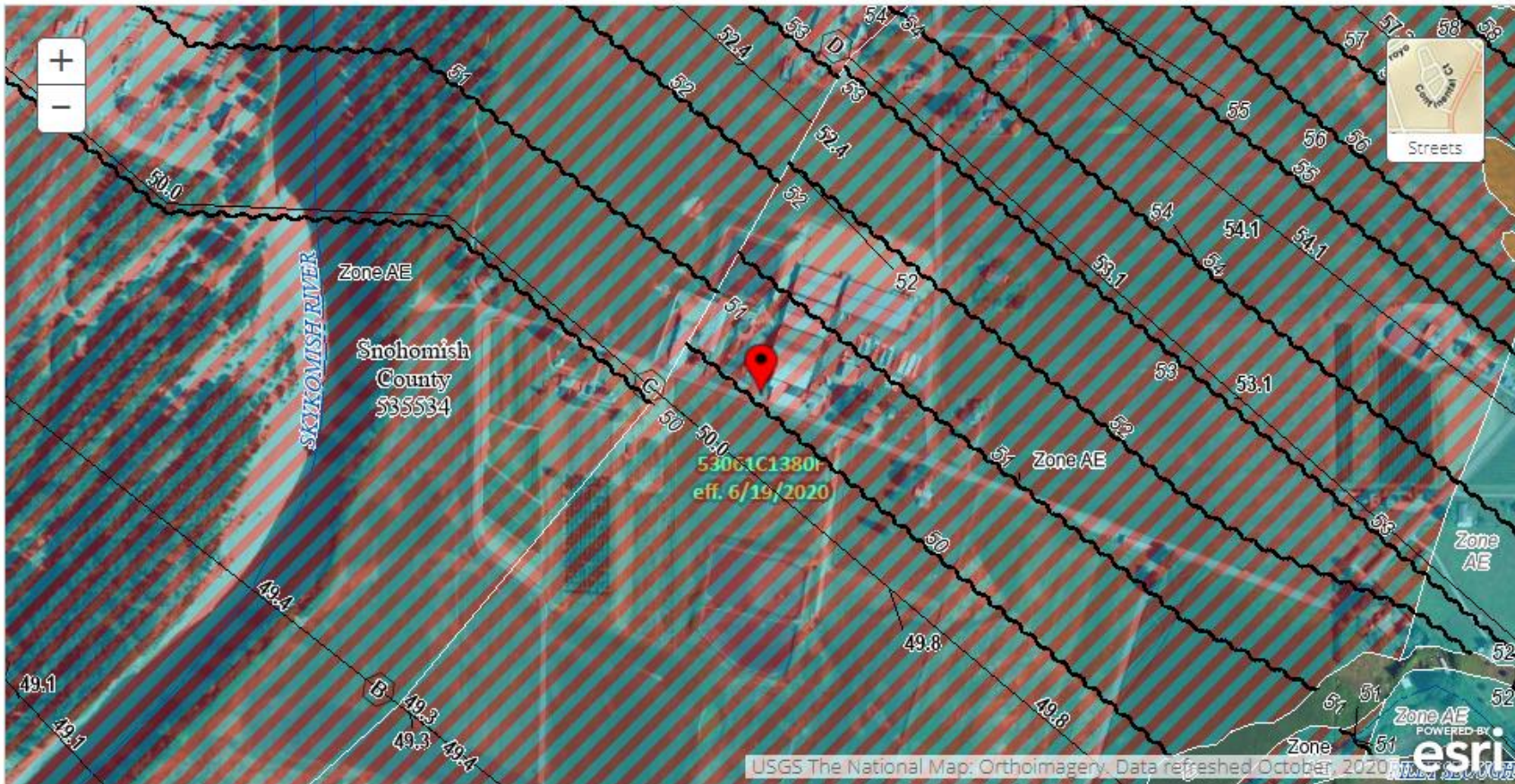
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Werkhoven Dairy

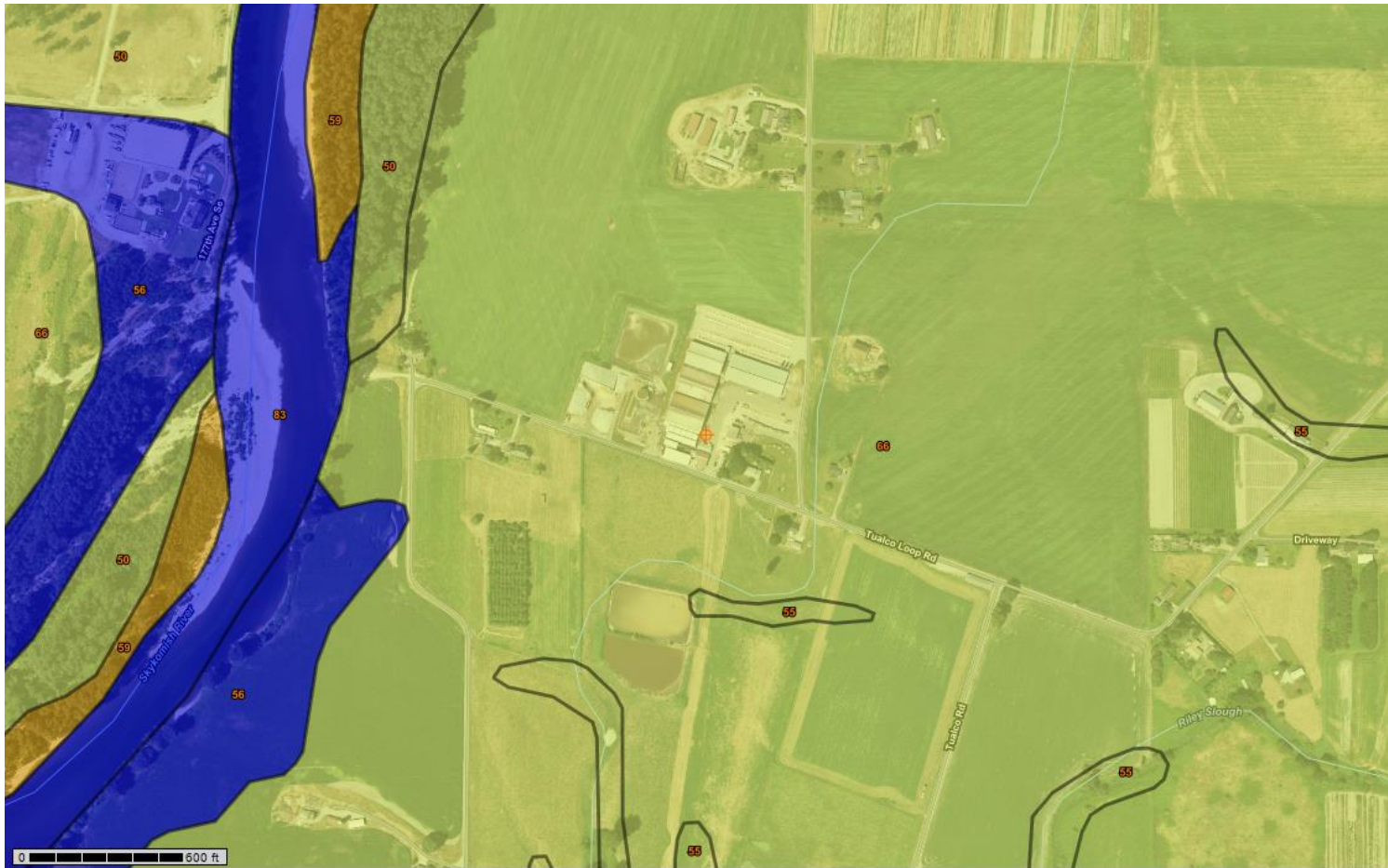
18125 Tualco Loop Rd., Monroe WA

≈ 1,200 feet from lagoon to Skykomish River, in a flood plain





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>NO SCREEN Area of Minimal Flood Hazard Zone X</p> <p> Effective LOMRs</p> <p> Area of Undetermined Flood Hazard Zone D</p>	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Moderately Well Drained

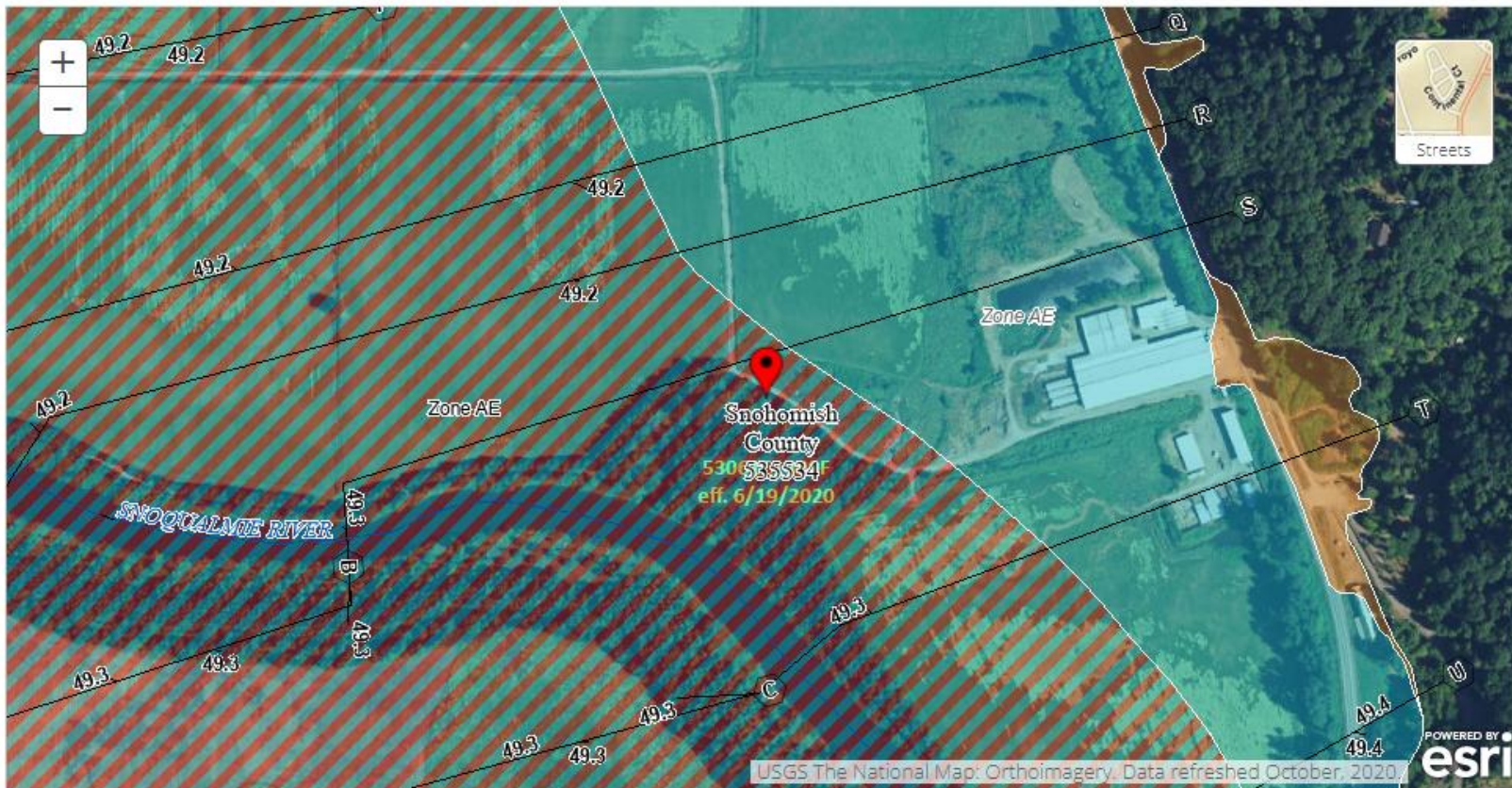
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

People's Creek Dairy

22426 State Route 203, Monroe WA

≈ 300 feet from lagoon to People's Creek

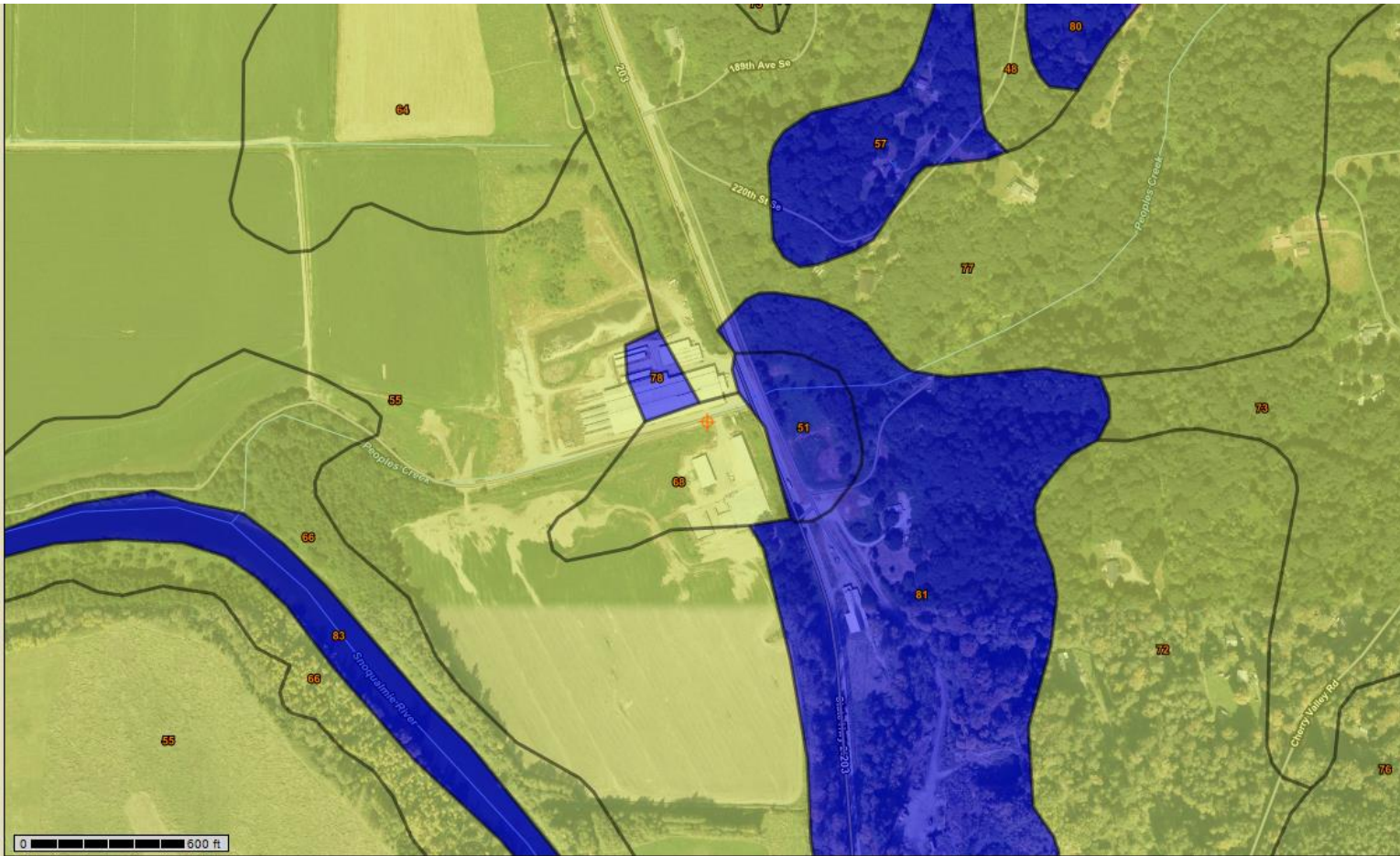




- PIN**
- Approximate location based on user input and does not represent an authoritative property location
- MAP PANELS**
- Selected FloodMap Boundary
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- OTHER AREAS**
- Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - Otherwise Protected Area
 - Coastal Barrier Resource System Area

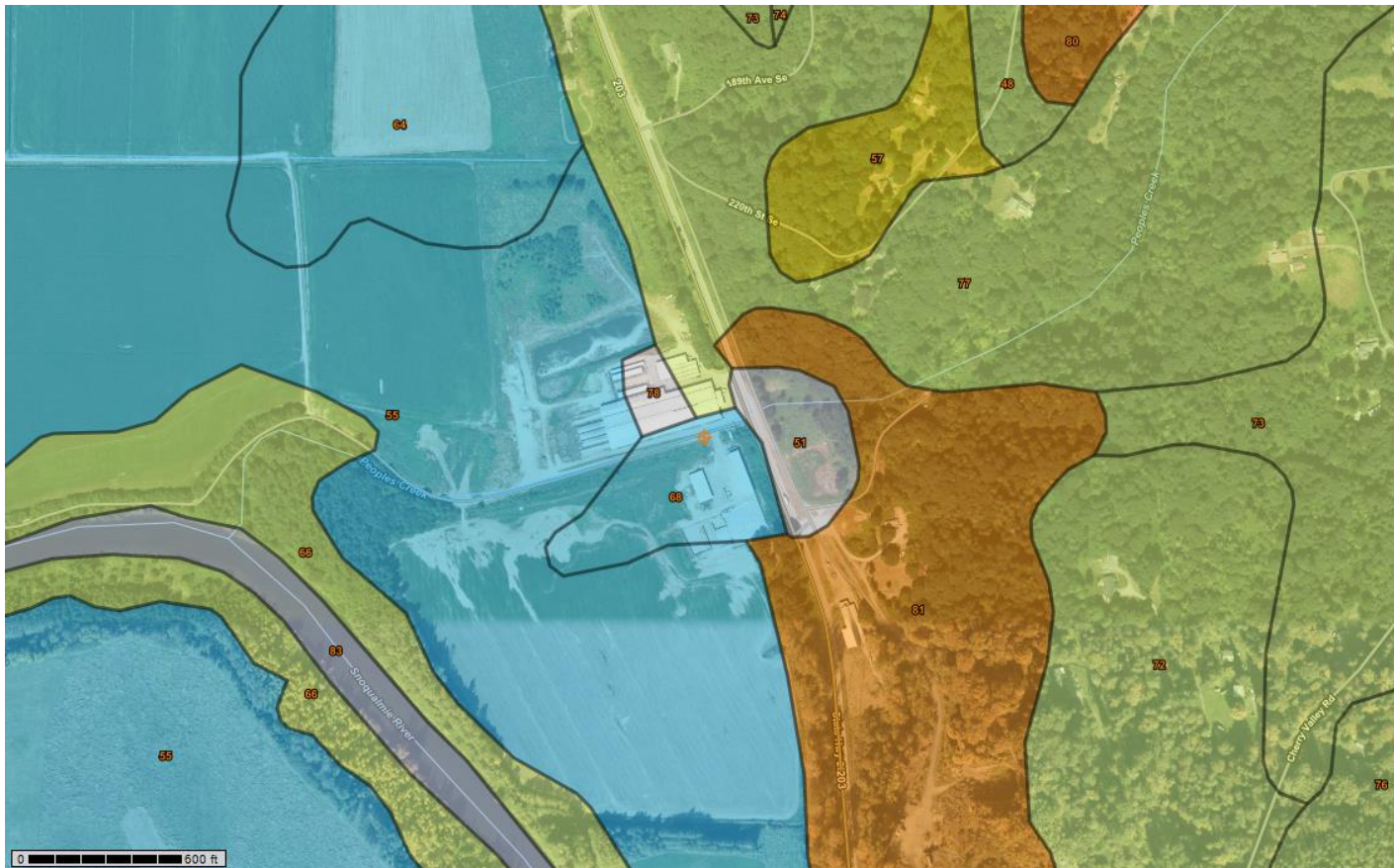
- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth
 - Regulatory Floodway Zone AE, AO, AH, VE, AR
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D

- OTHER FEATURES**
- Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall



Depth to Water Table: 90 – 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

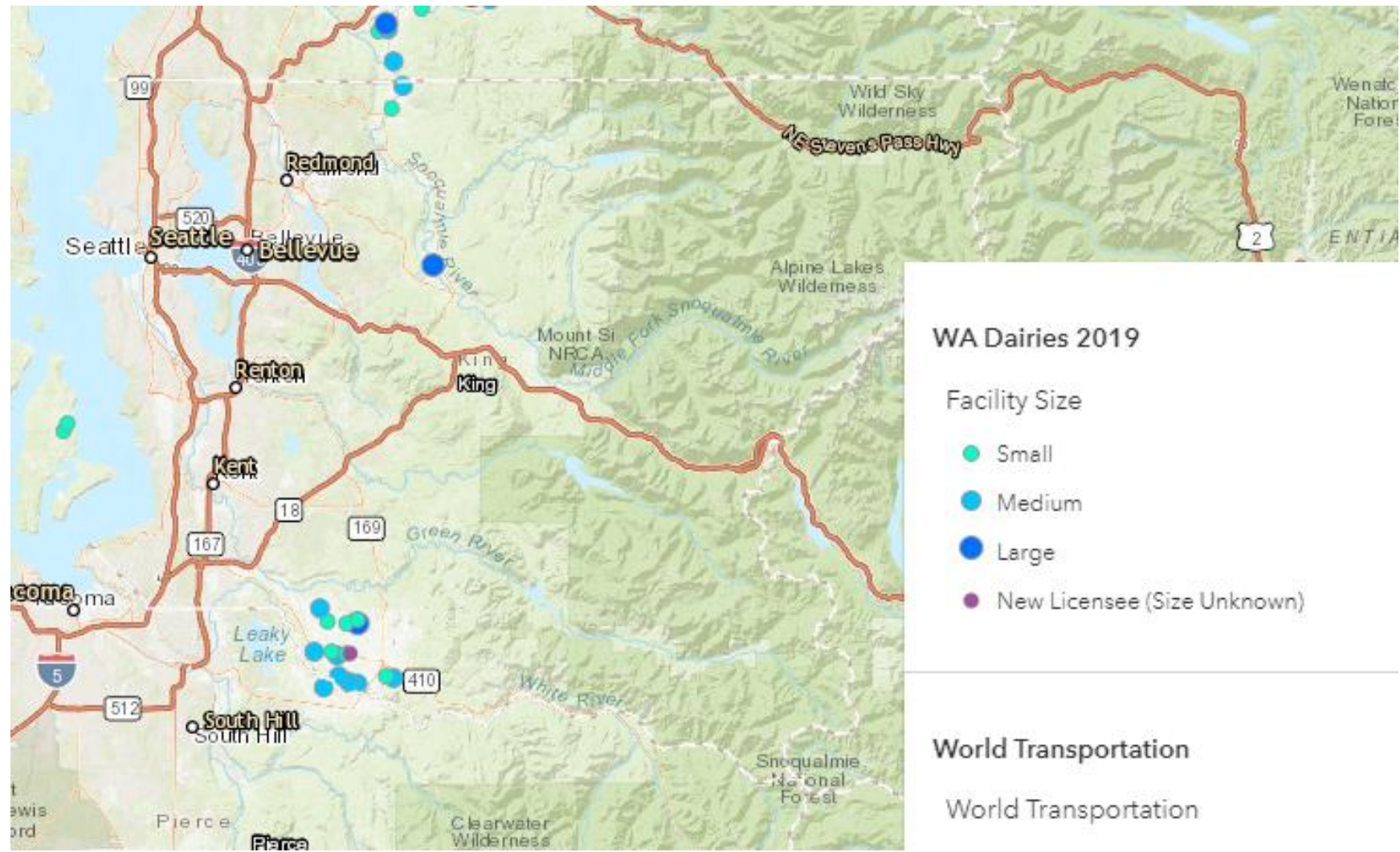


Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

King County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



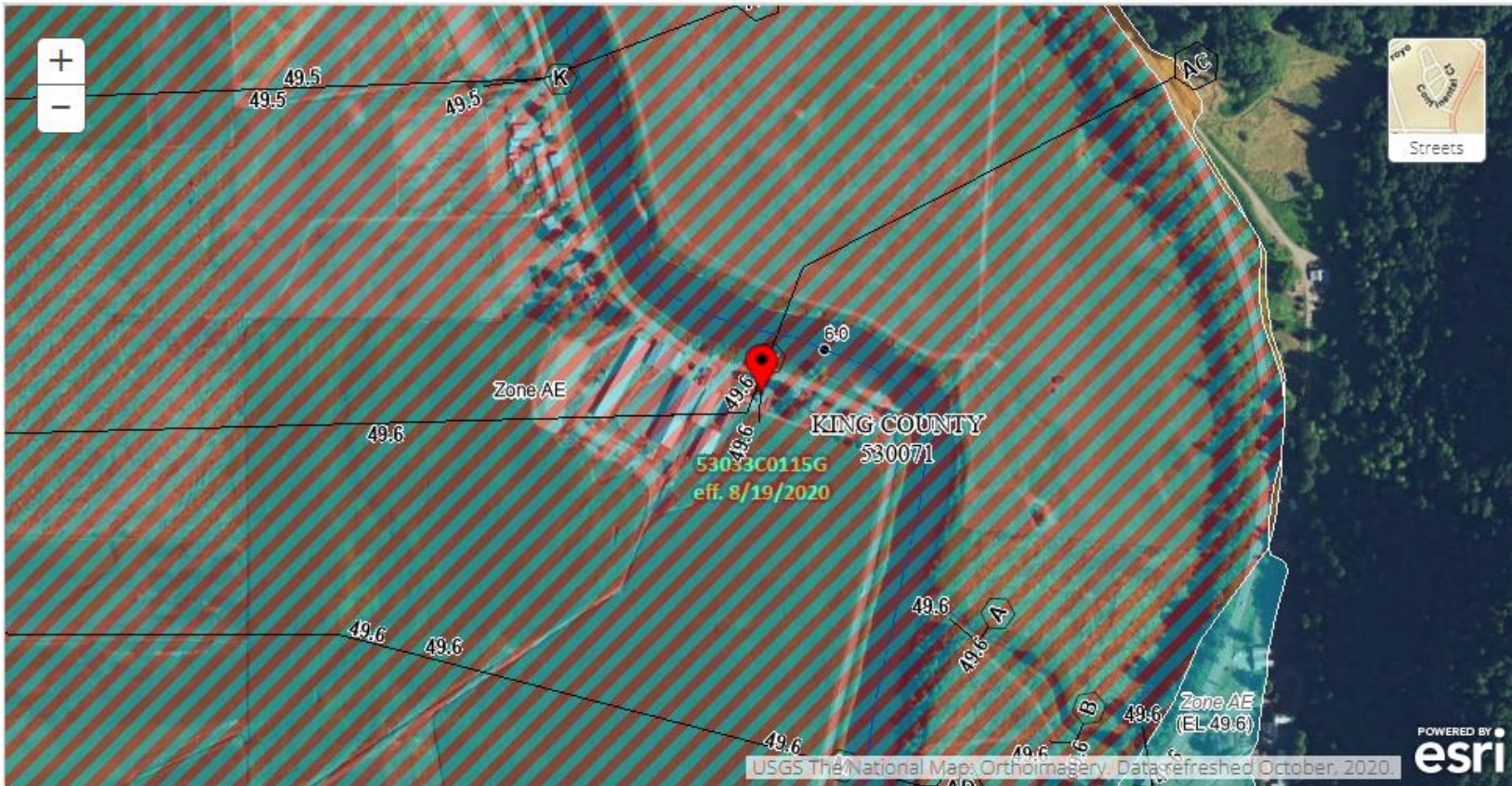
Snoqualmie River

Green Acres Dairy

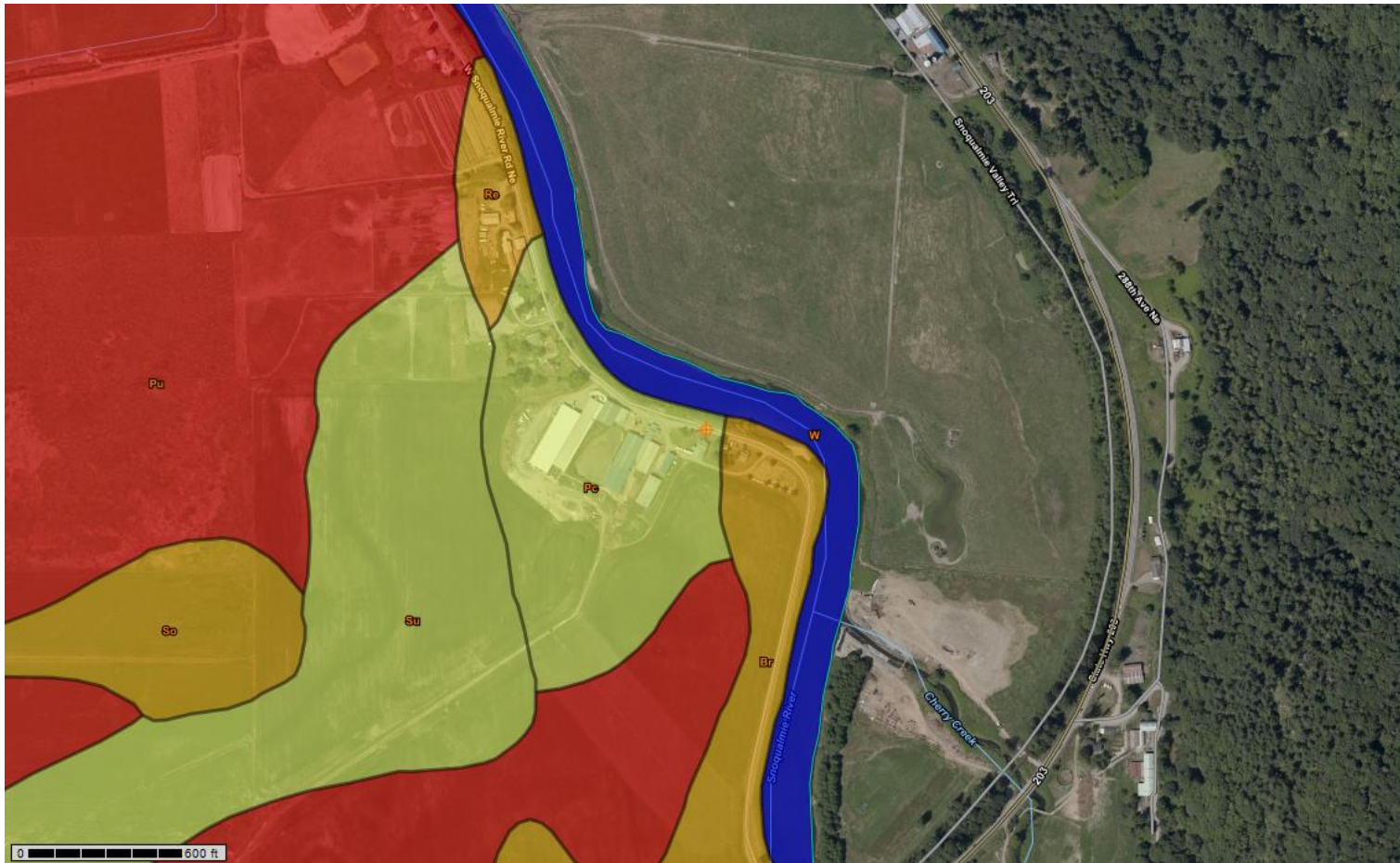
19605 W Snoqualmie River Rd, Duvall WA

≈ 150 feet from lagoon to Snoqualmie River, in a flood plain



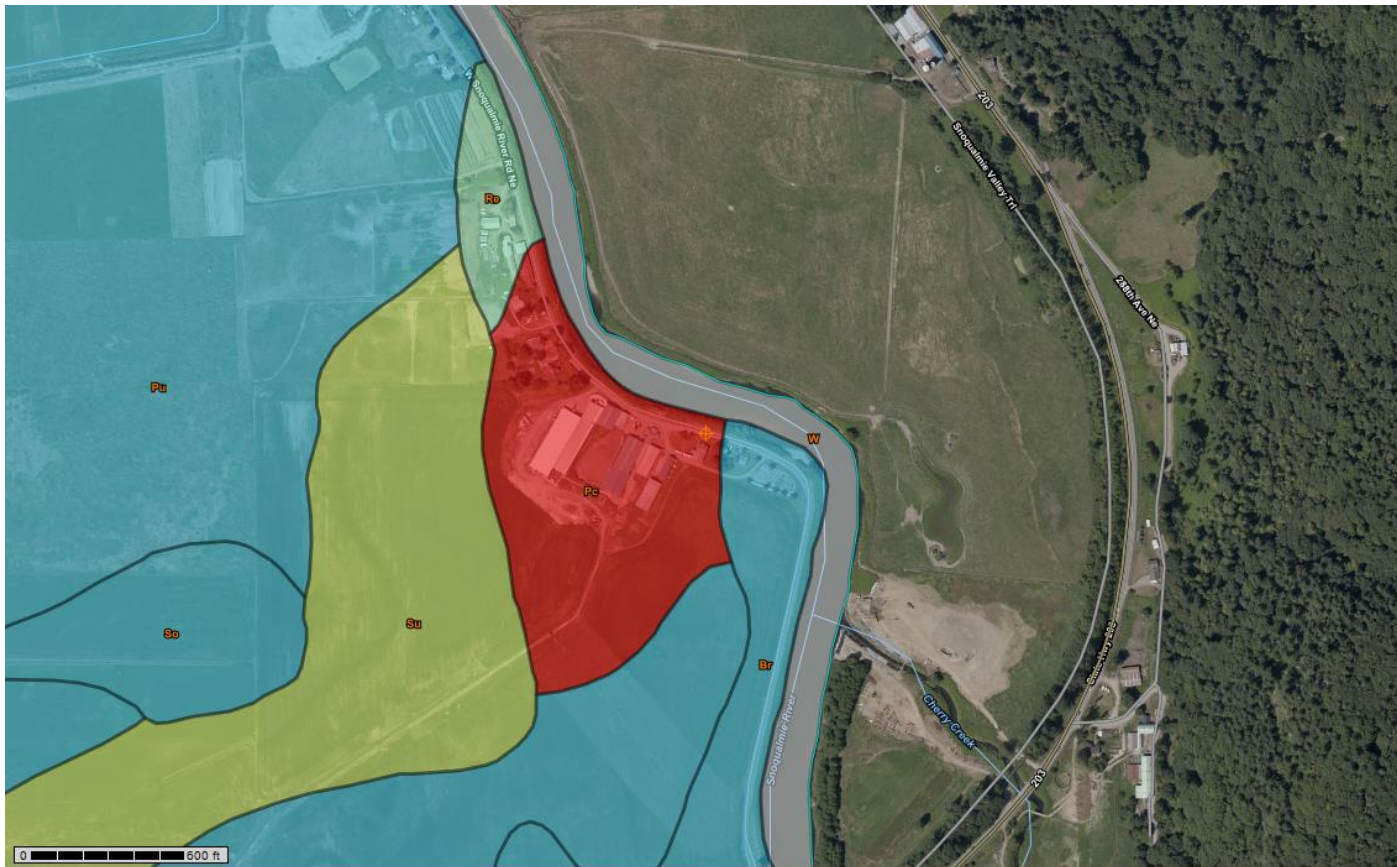


<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location <p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped <p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR <p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Excessively Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Keller Dairy

31700 SE 19th Way, Fall City WA

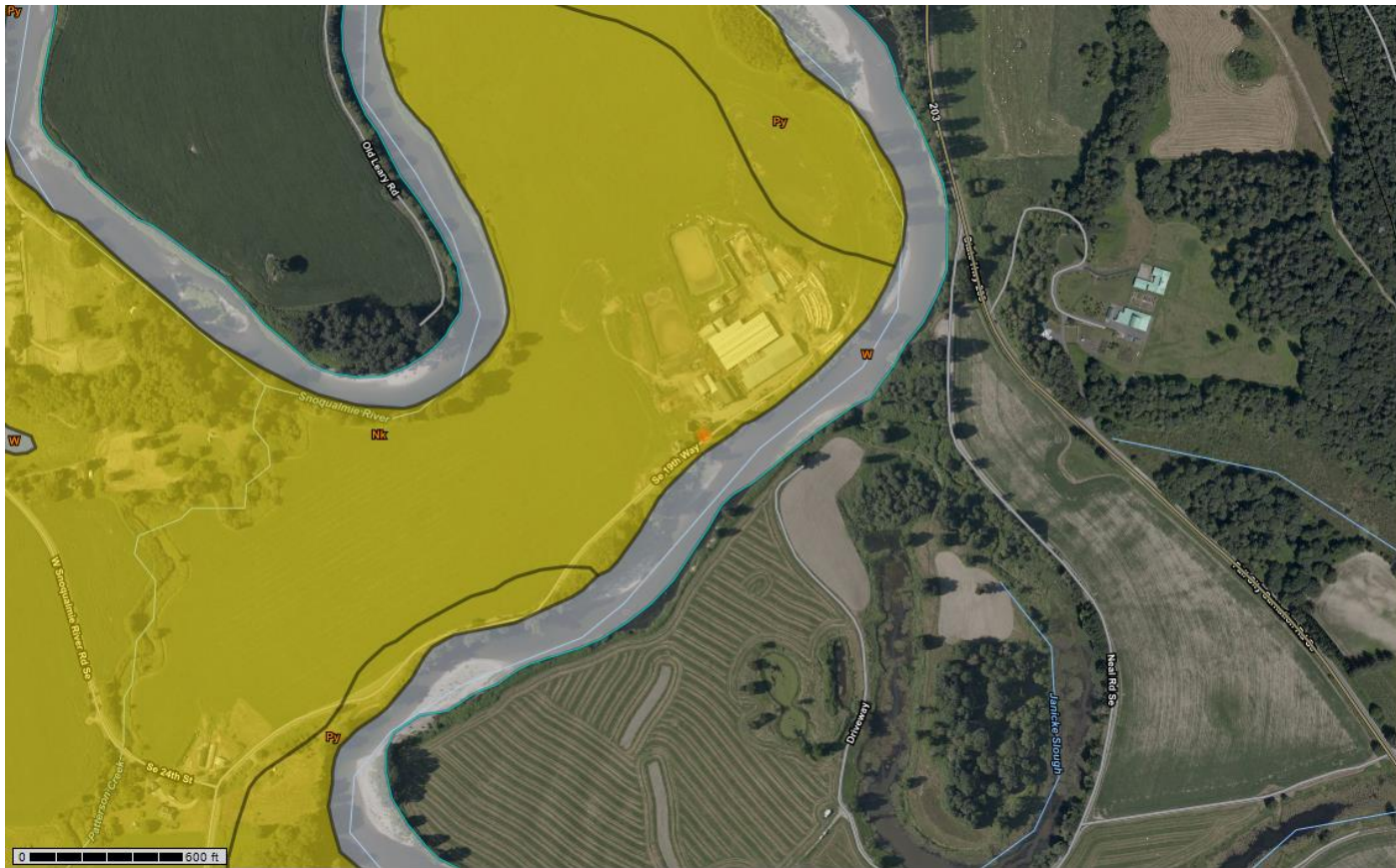
≈ 400 feet from lagoons to Snoqualmie River, in a flood plain





Depth to Water Table: 107 – 137 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Grays Harbor County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>

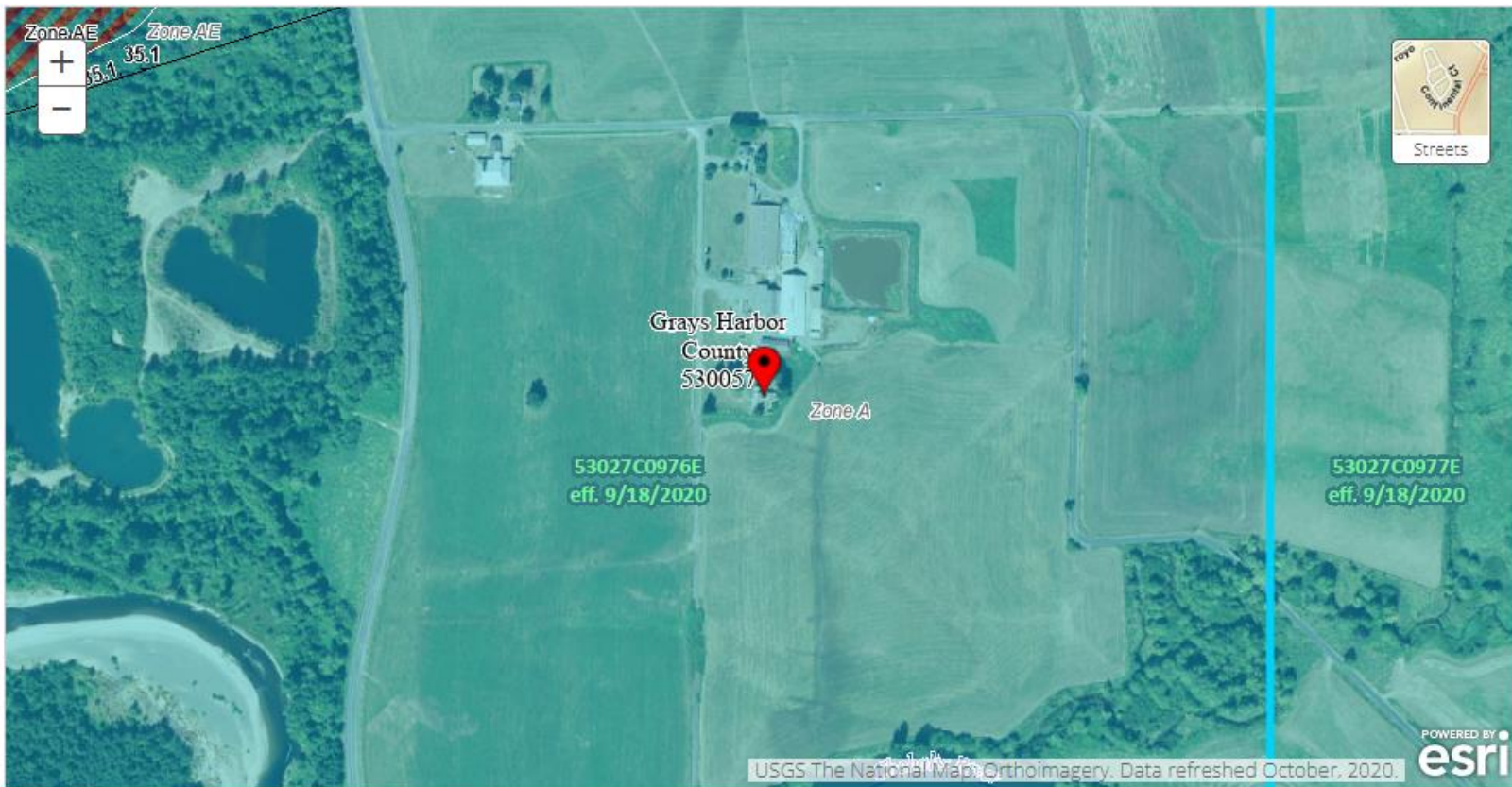


Chehalis River

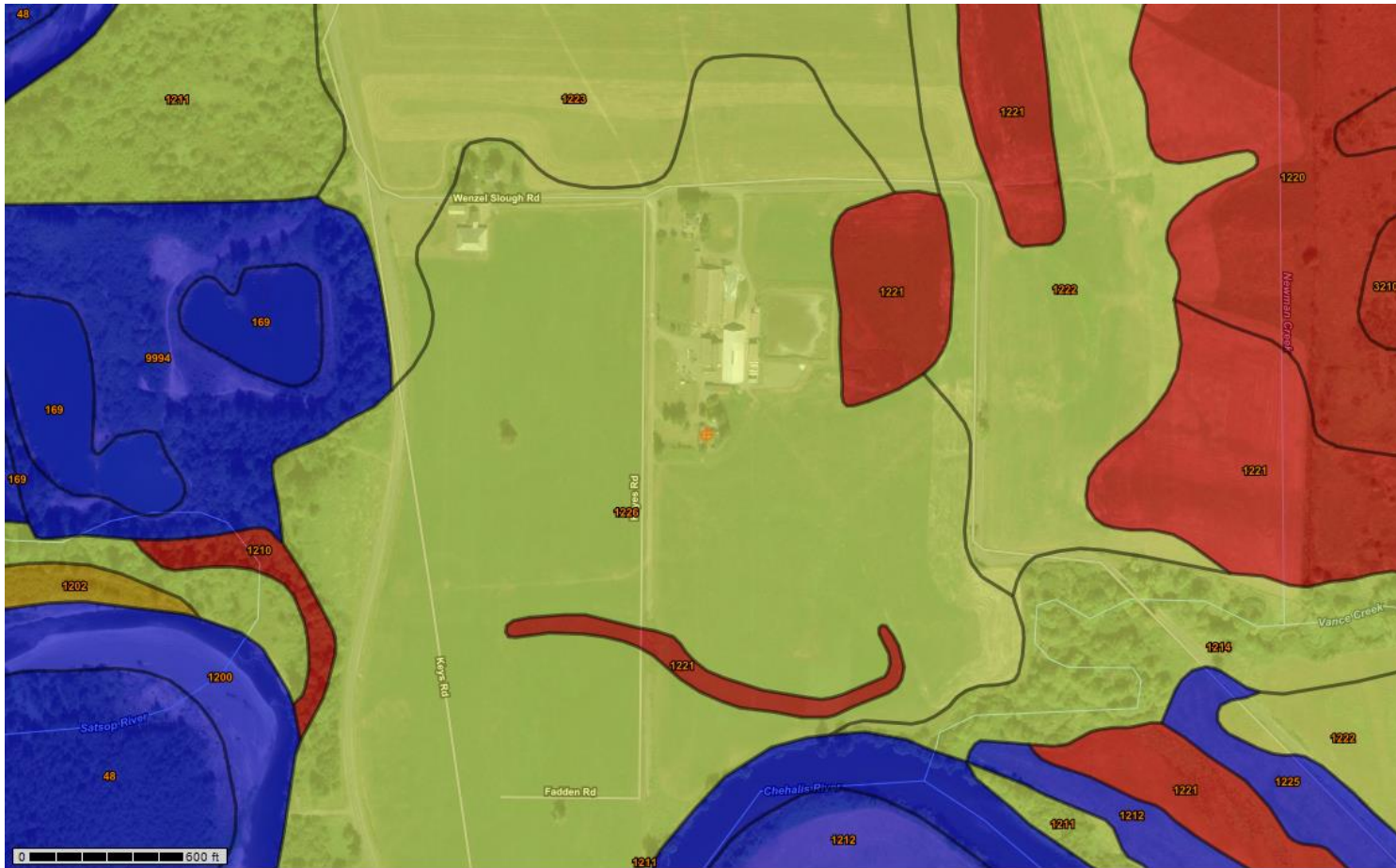
Jose Torres Dairy

759 Wenzell Slough Rd, Elma WA \approx 1,200 feet from lagoon to Chehalis River





<p>PIN</p> <ul style="list-style-type: none"> Approximate location based on user input and does not represent an authoritative property location 	<p>MAP PANELS</p> <ul style="list-style-type: none"> Selected FloodMap Boundary Digital Data Available No Digital Data Available Unmapped 	<p>OTHER AREAS</p> <ul style="list-style-type: none"> Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Otherwise Protected Area Coastal Barrier Resource System Area 	<p>SPECIAL FLOOD HAZARD AREAS</p> <ul style="list-style-type: none"> Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Regulatory Floodway Zone AE, AO, AH, VE, AR 	<p>OTHER AREAS OF FLOOD HAZARD</p> <ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D 	<p>OTHER FEATURES</p> <ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature <p>GENERAL STRUCTURES</p> <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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Depth to Water Table: 60 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



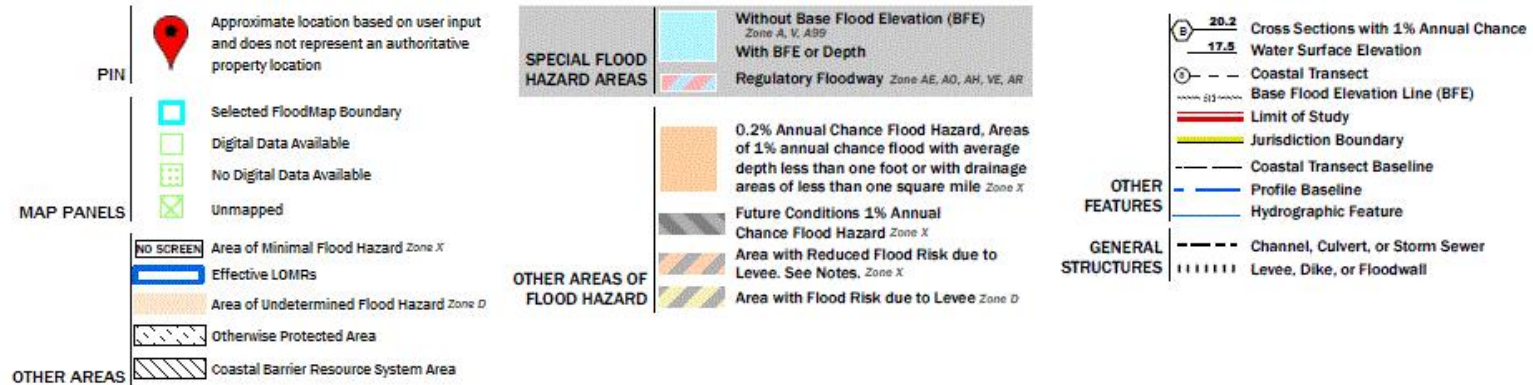
Drainage Class: Moderately Well Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Elma Dairy

144 North Blockhouse Rd, Elma WA ≈ 4,000 feet from lagoon to Chehalis River





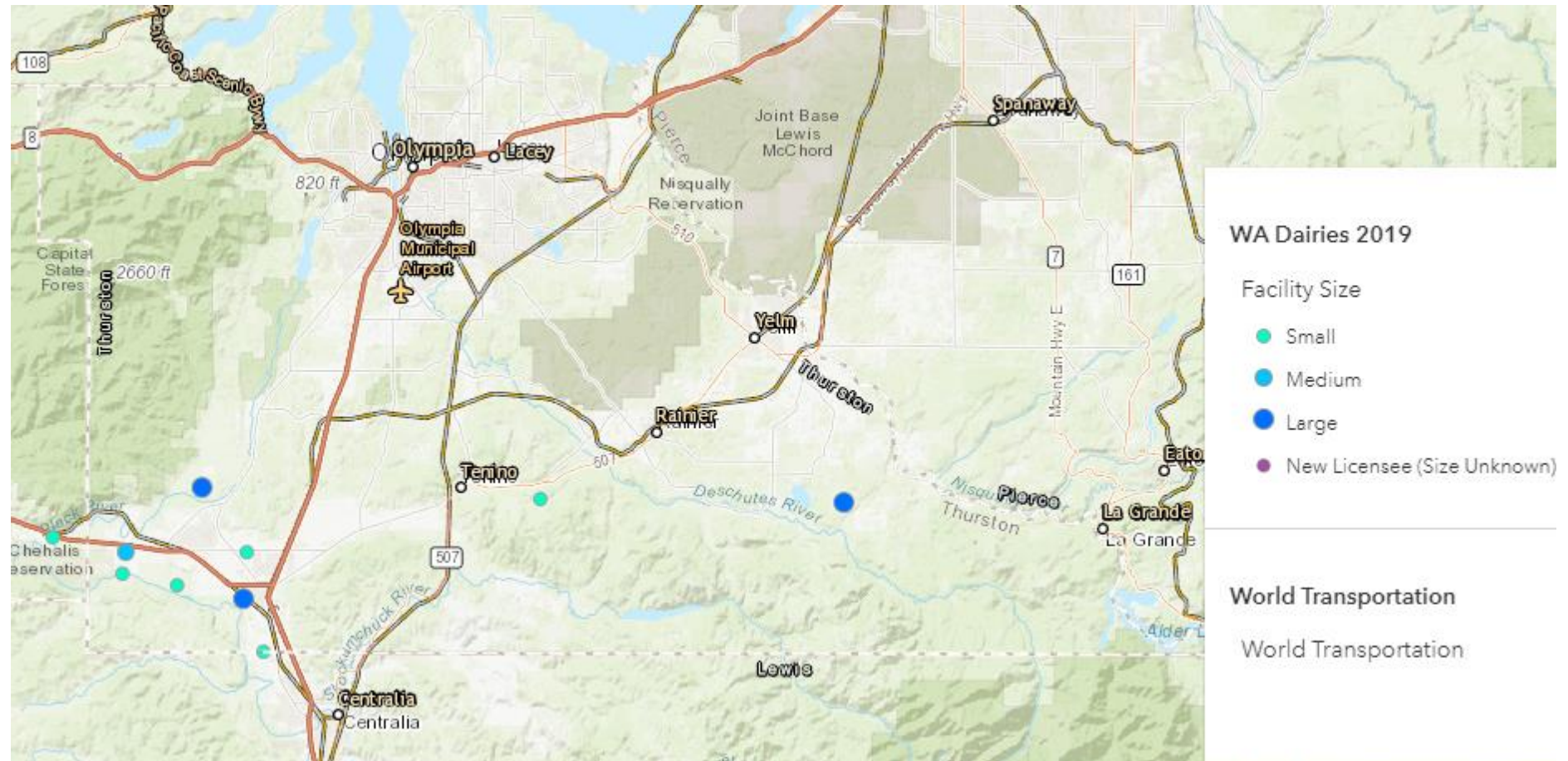


Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Thurston County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



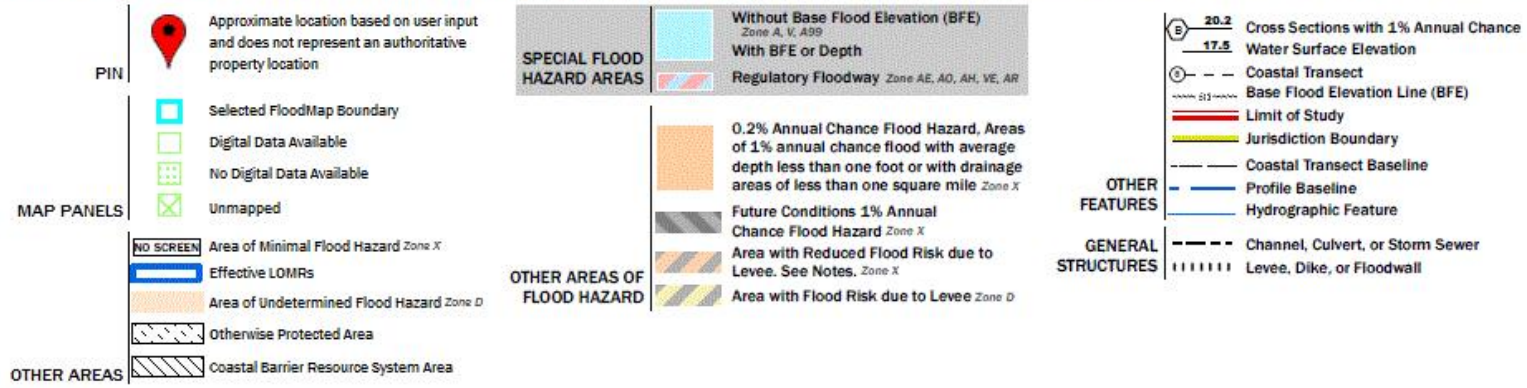
Chehalis River

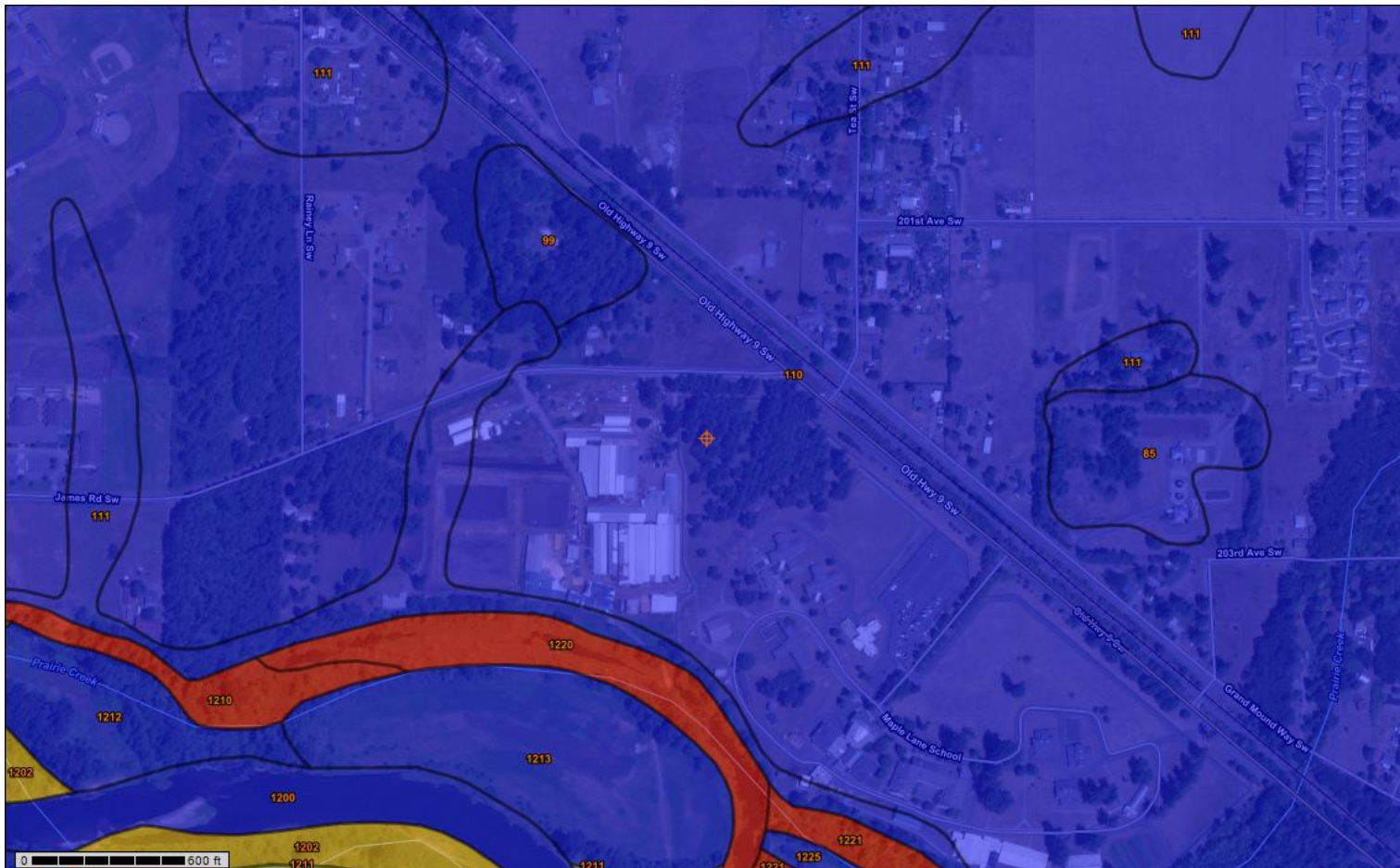
James Road Dairy

7049 SW James Rd, Rochester WA

≈ 100 feet from lagoons to Prairie Creek







Depth to Water Table: > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

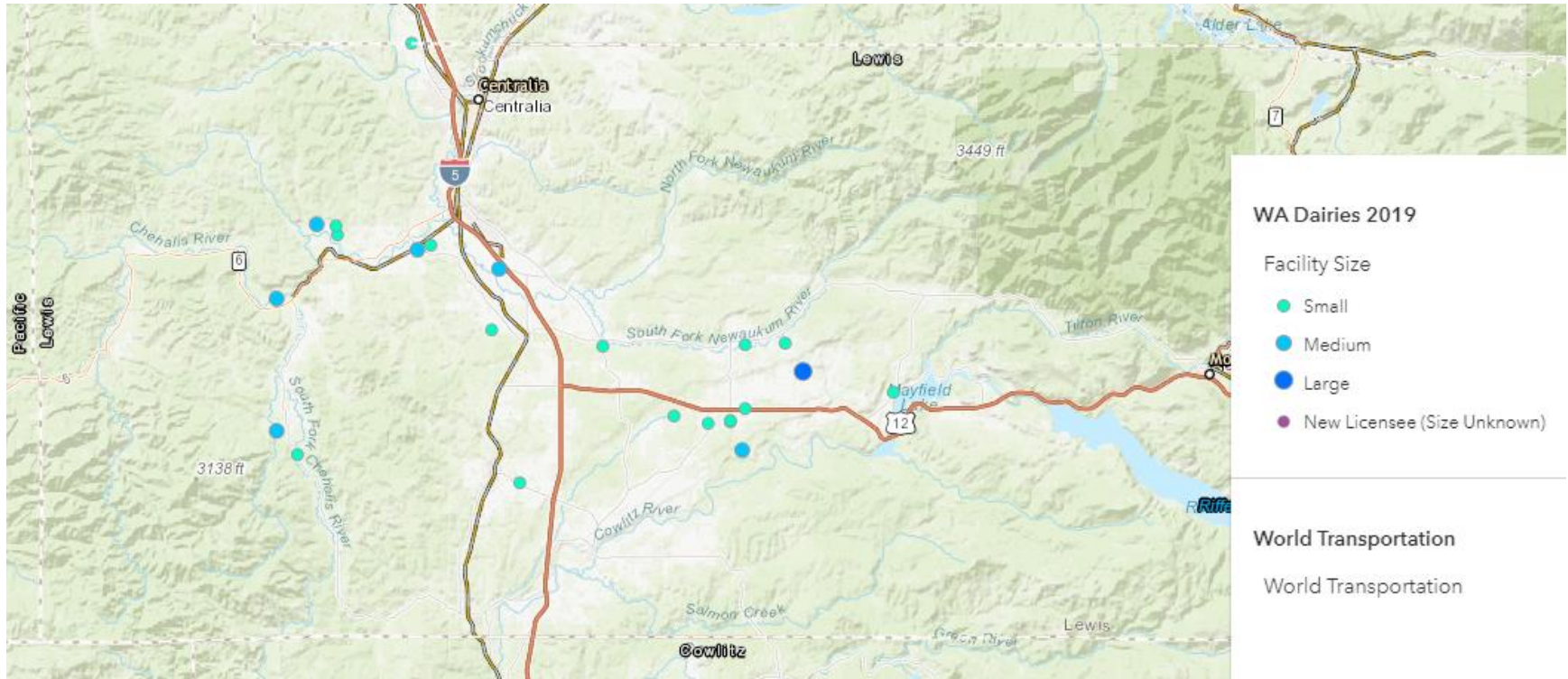


Drainage Class: Somewhat Excessively Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Lewis County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



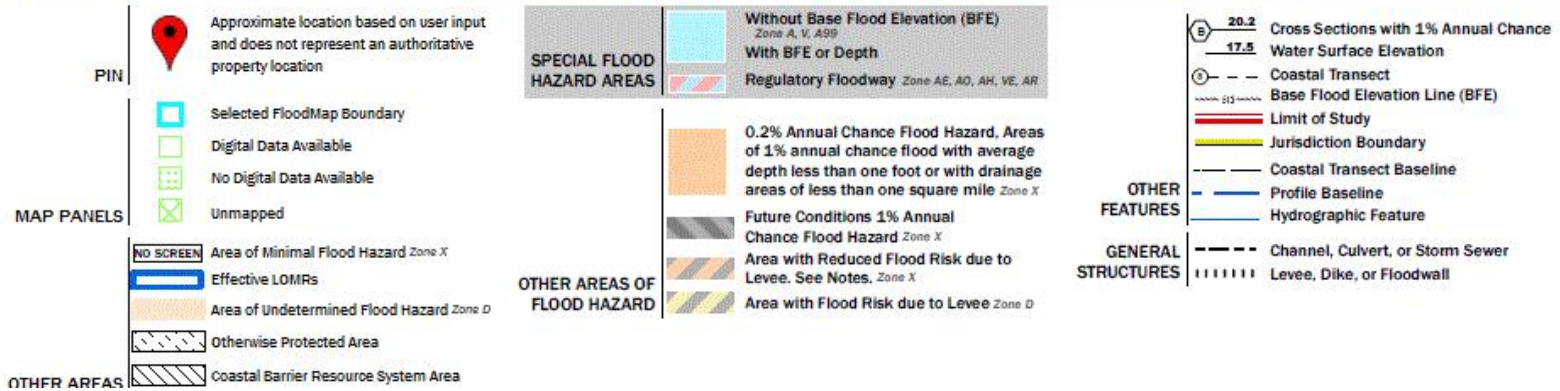
Newaukum River

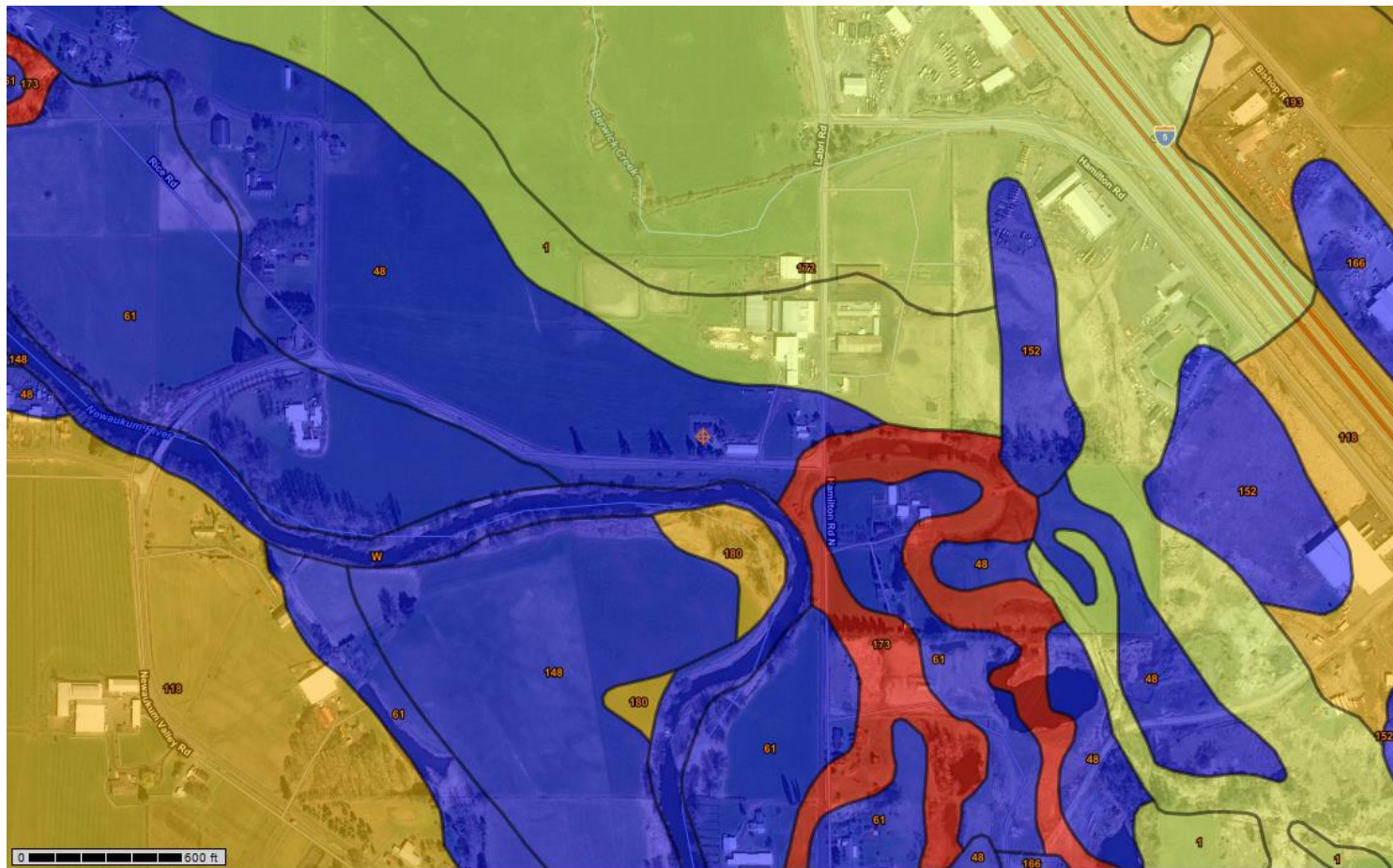
Osborn Dairy

228 Labree Rd, Chehalis WA

≈ 350 feet from lagoon to Newaukum River

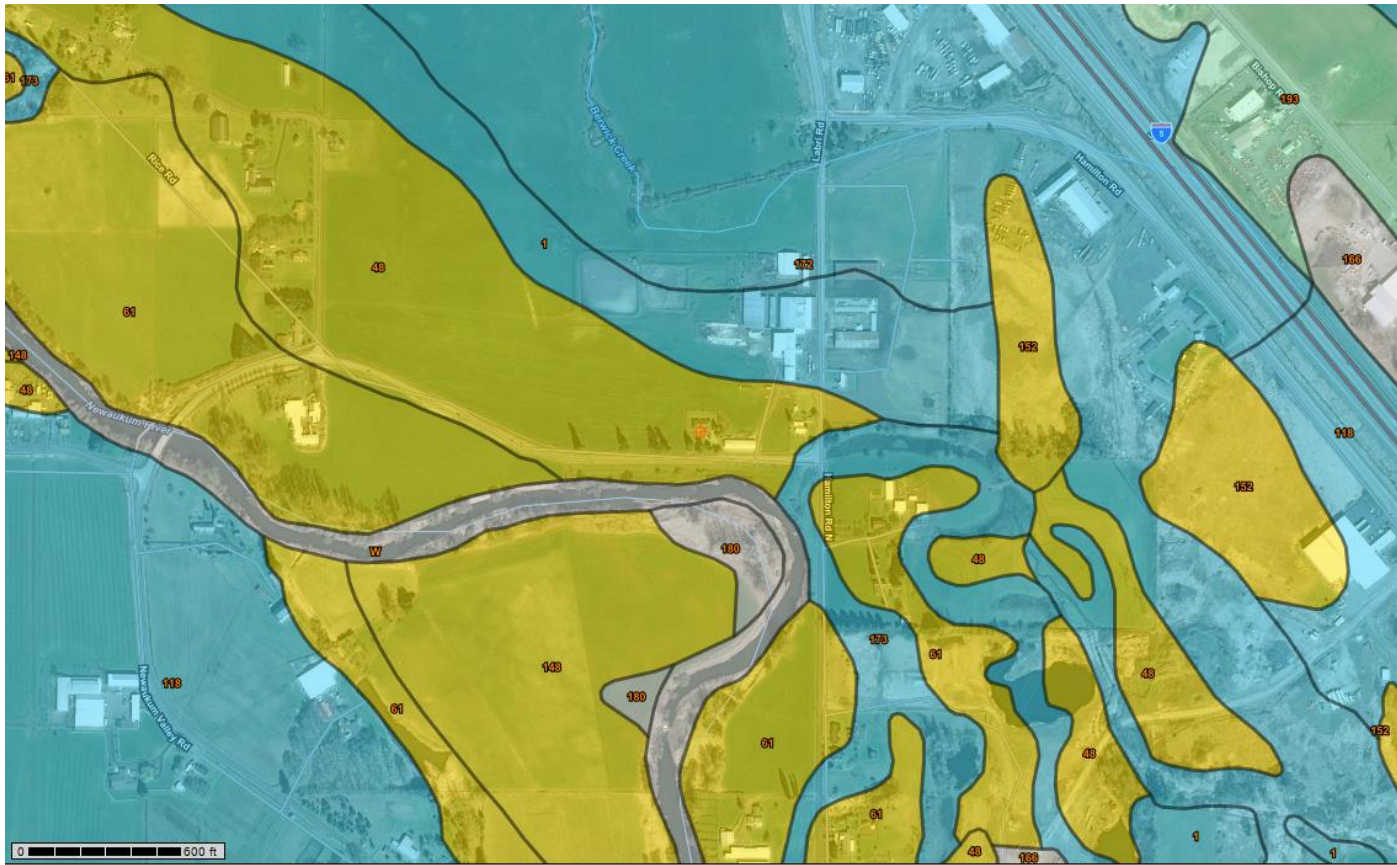






Depth to Water Table: 69 – 92 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

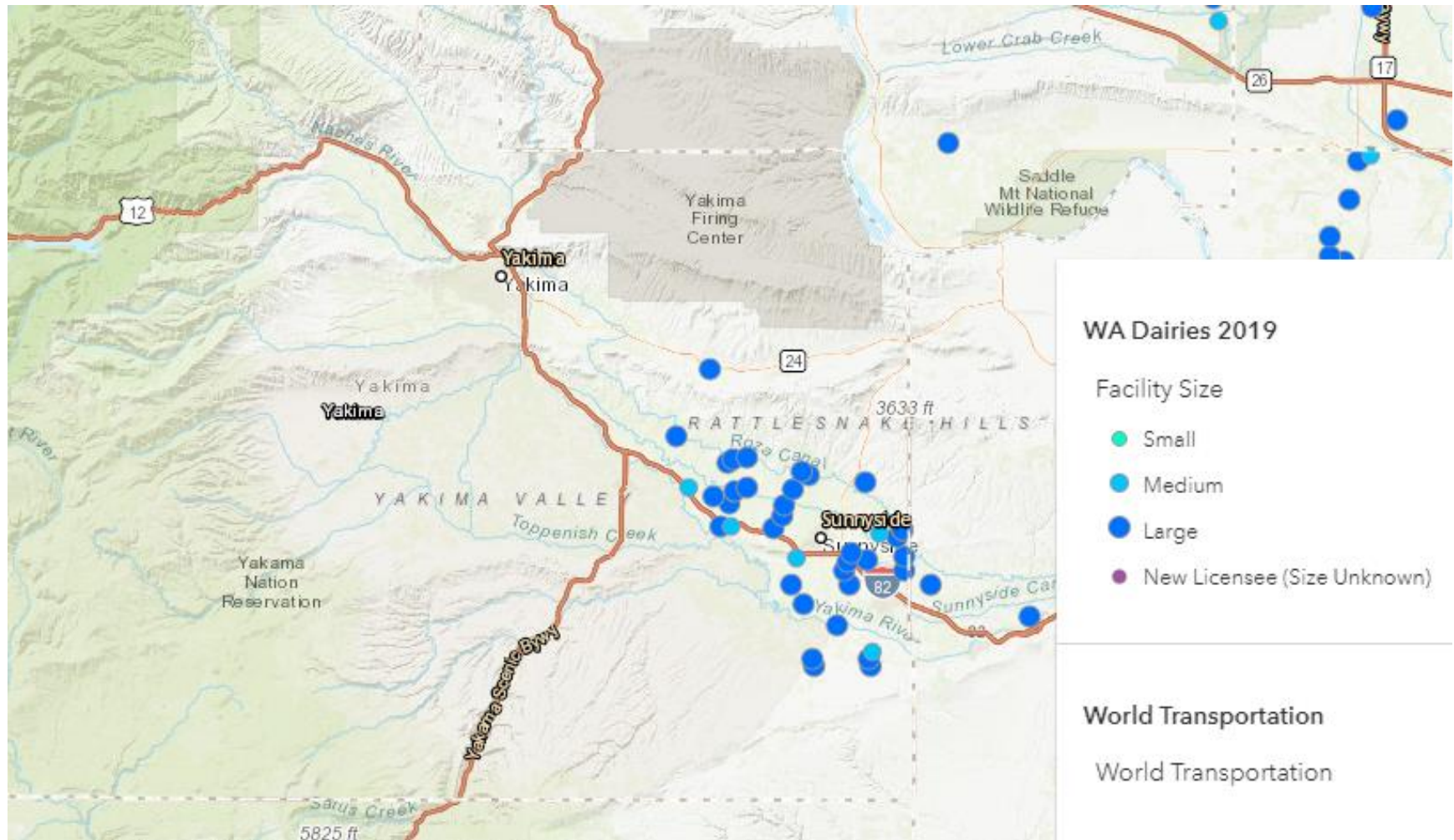


Drainage Class: Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Yakima County

<https://hub.arcgis.com/maps/84c611986e804a9e8da7a3b7b6b3a514/explore?location=48.927520%2C-122.361976%2C12.00>



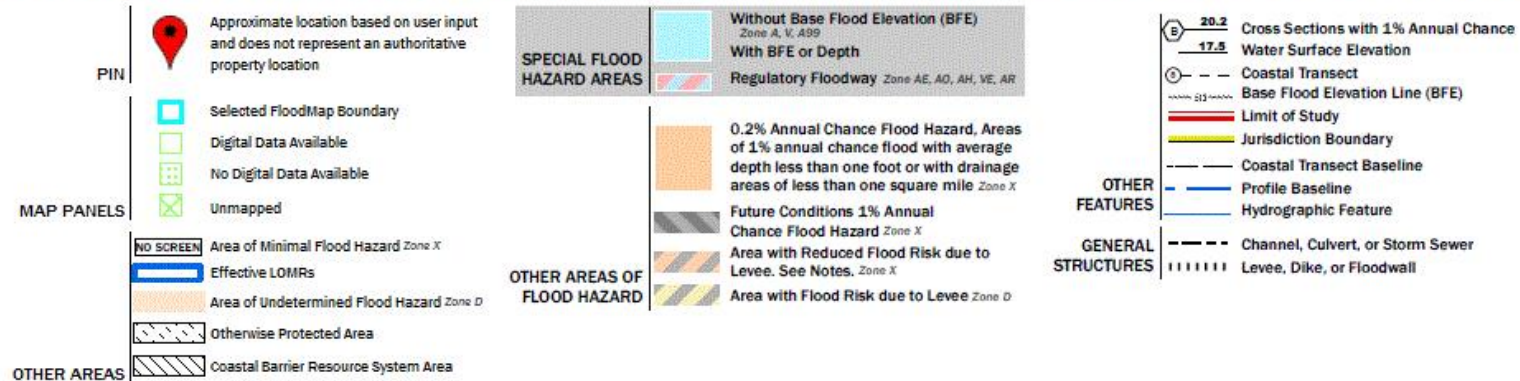
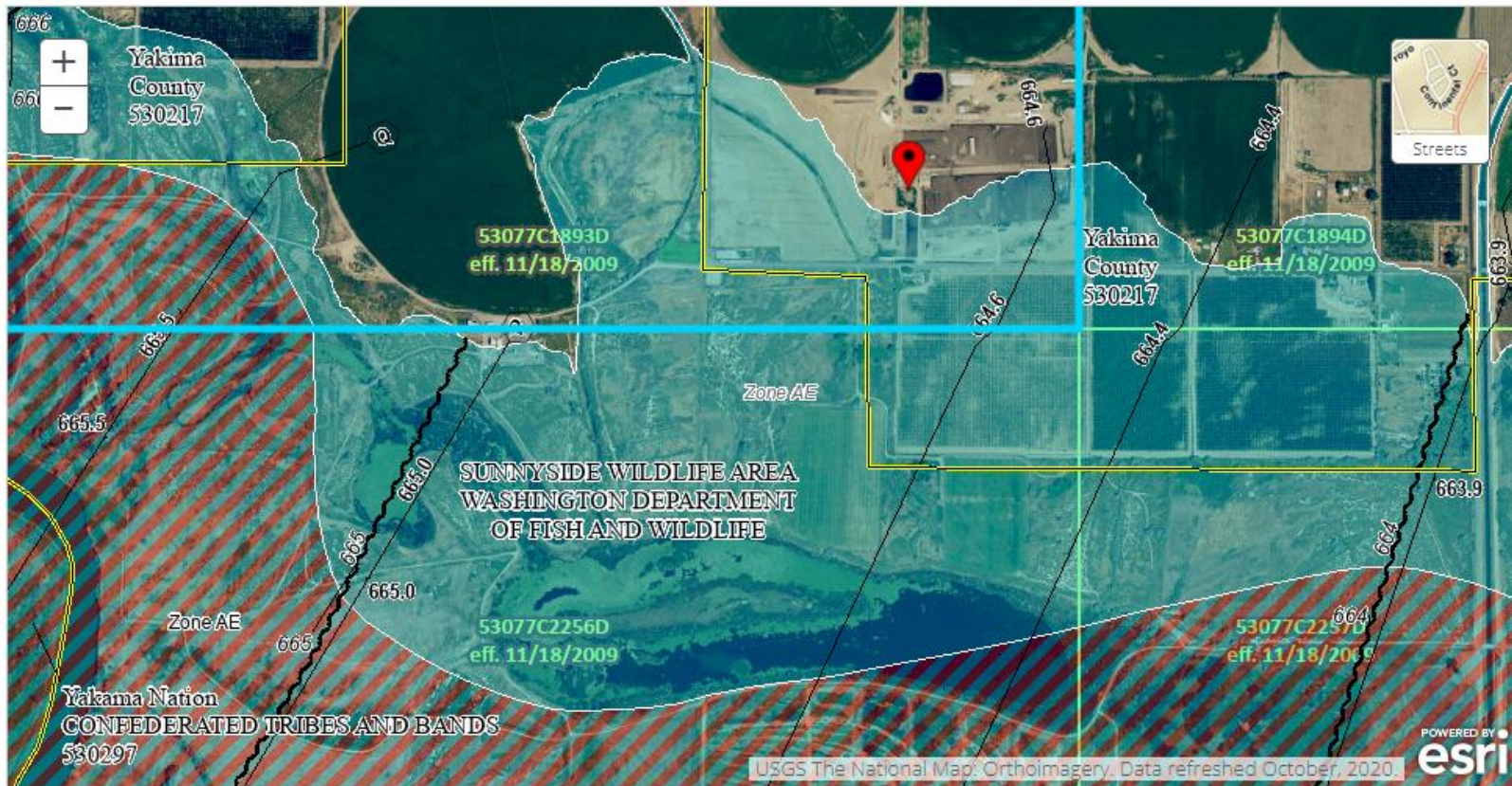
Yakima River

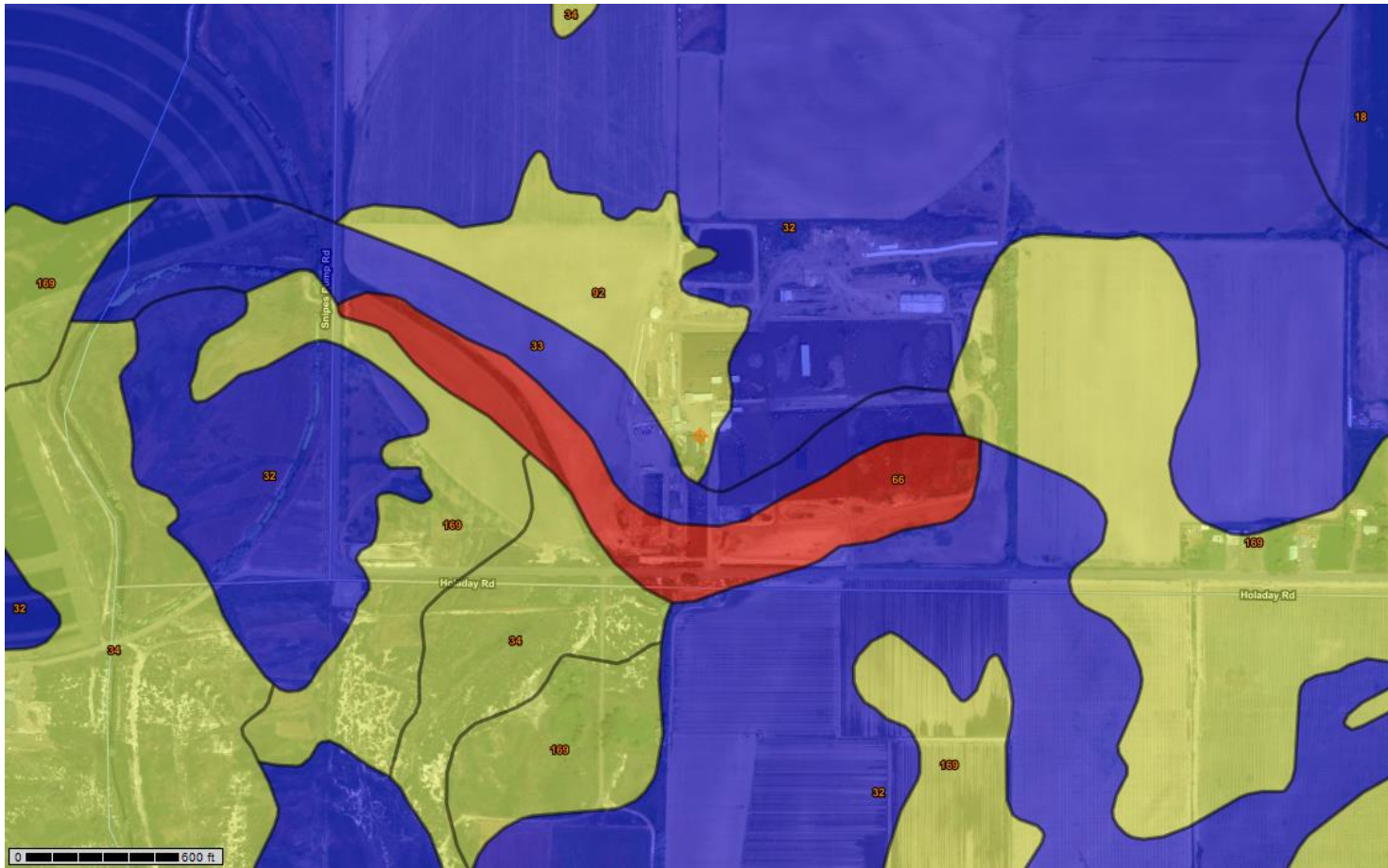
Double P Dairy

1741 Holaday Rd, Mabton WA \approx 2,500 feet from lagoon to Giffen Lake



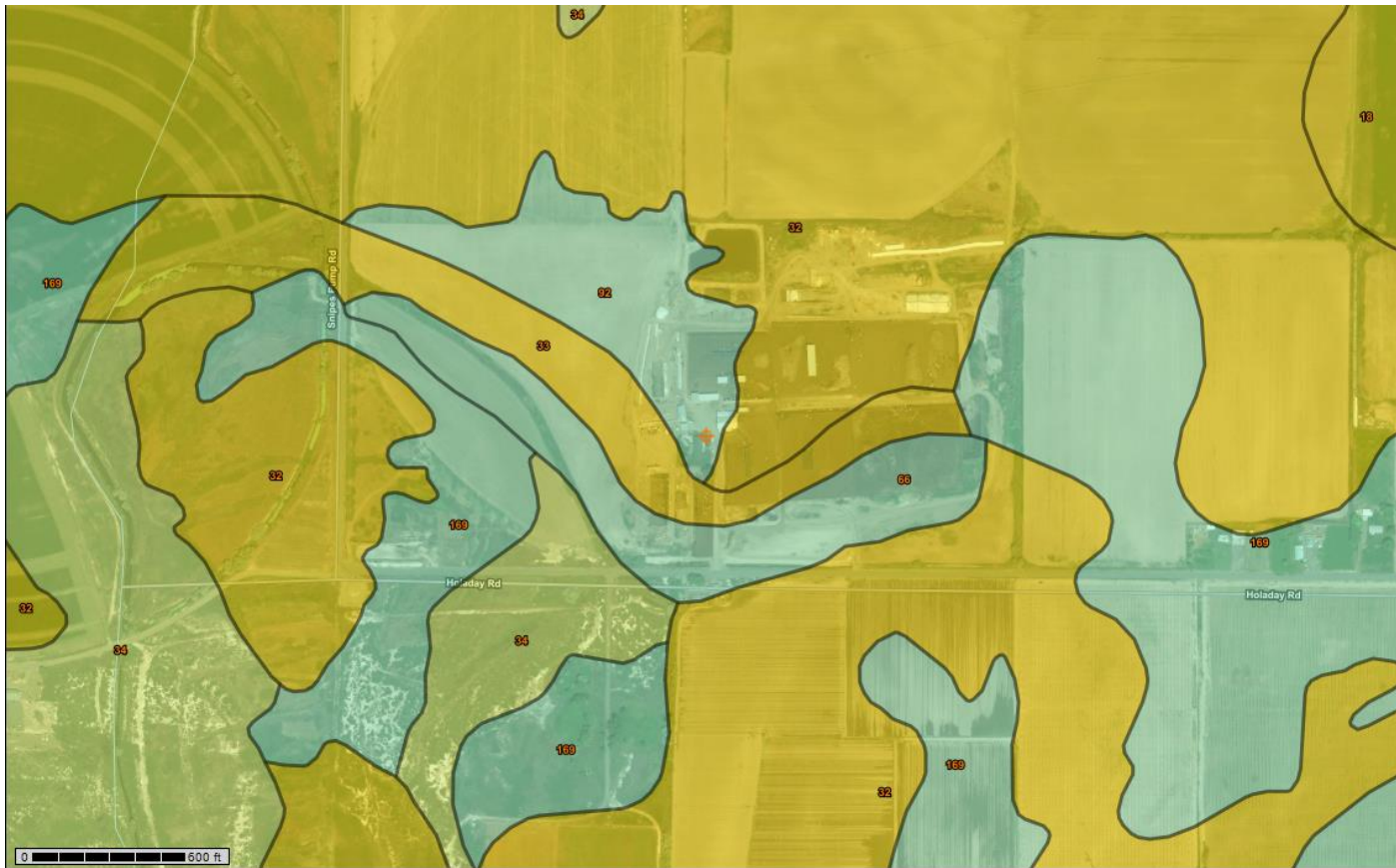






Depth to Groundwater: 76 cm to > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained to Somewhat Poorly Drained

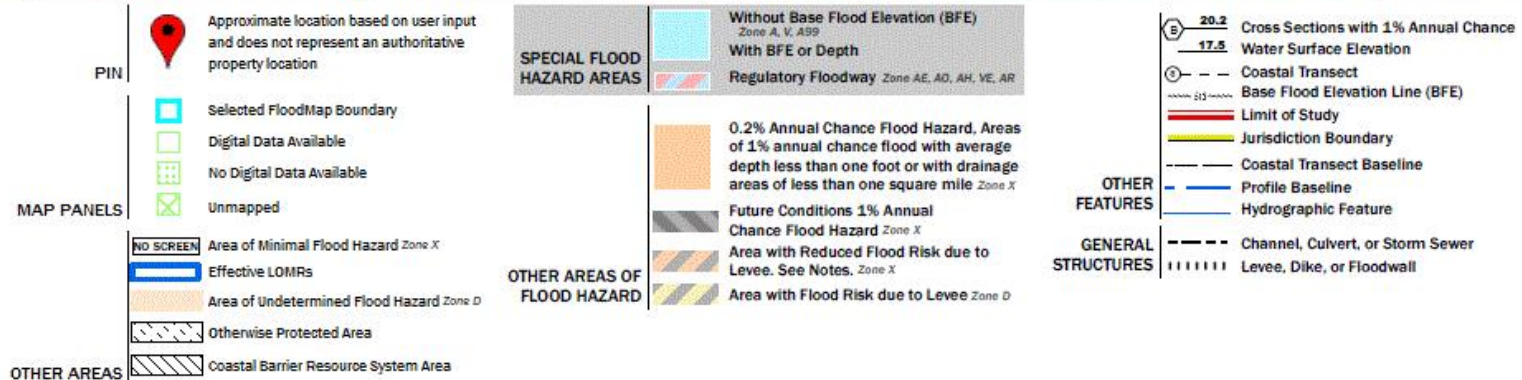
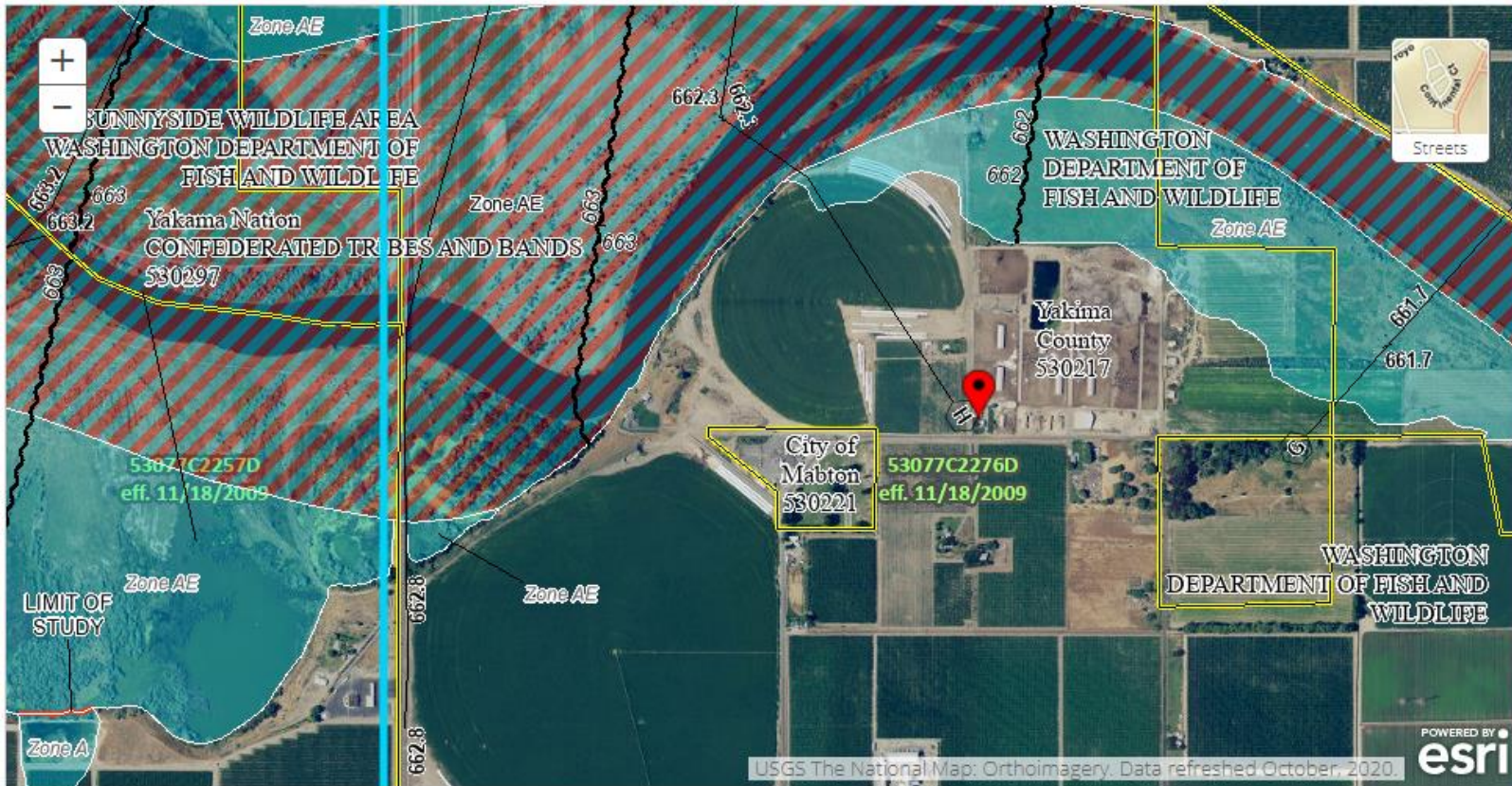
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

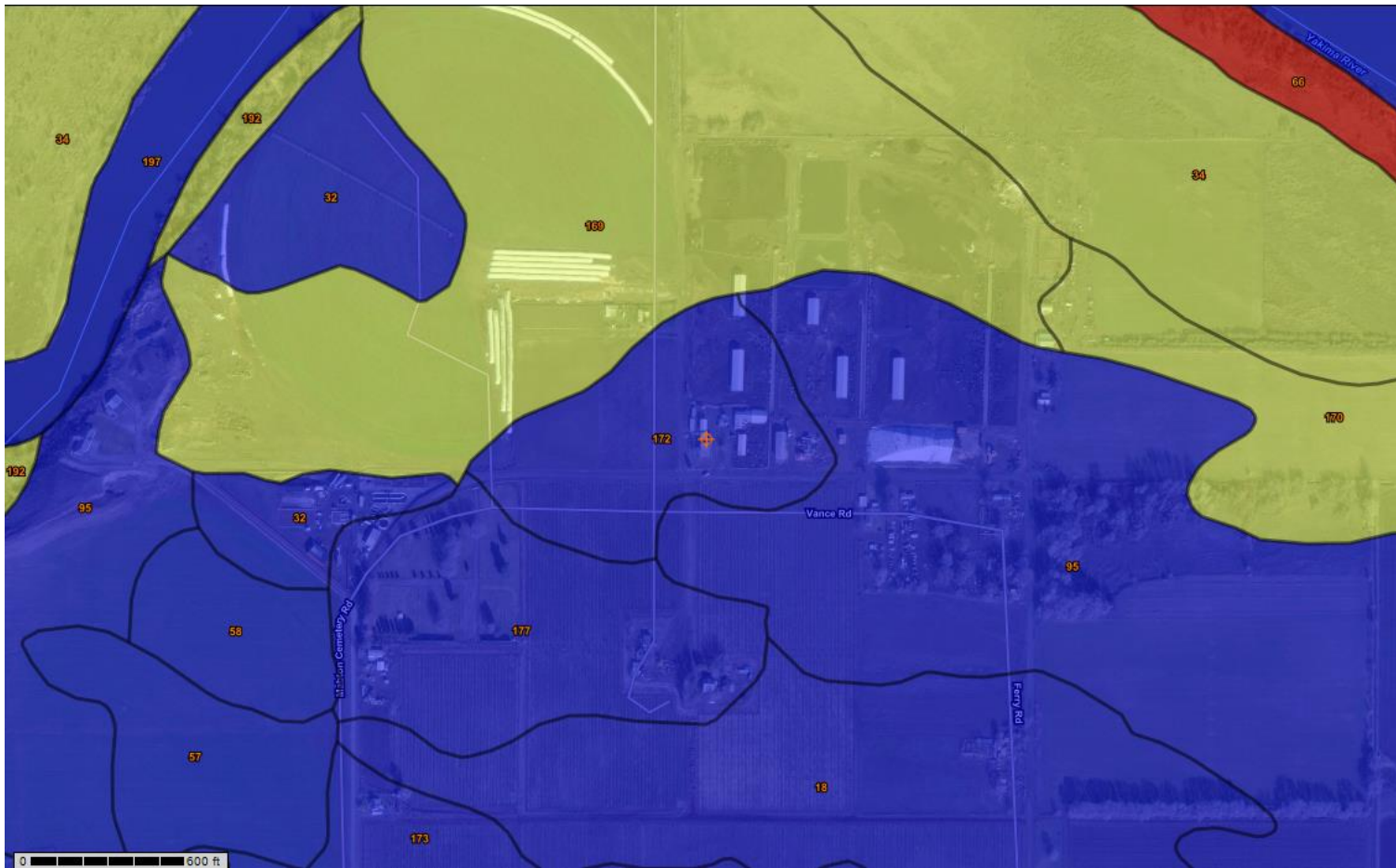
Riverview Dairy

1220 Vance Rd, Mabton WA

≈ 1,200 feet from lagoons to Yakima River

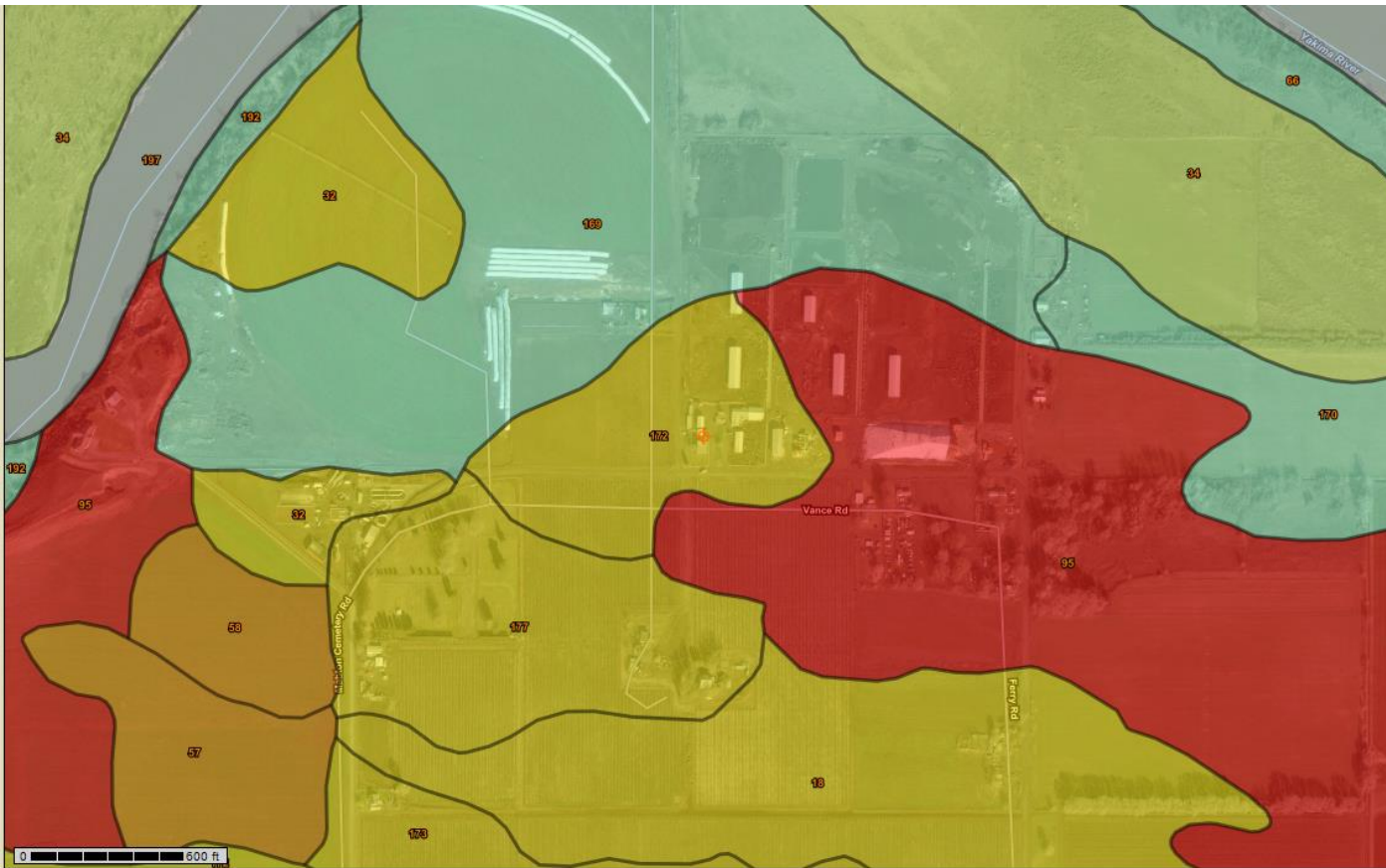






Depth to Groundwater: 92 cm to > 200 cm

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available



Drainage Class: Well Drained/Excessively Drained/Somewhat Poorly Drained

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available