

## Livestock and Water Quality Site Visit



<b>Site Visit Information</b>	<input checked="" type="checkbox"/> First Visit	<input type="checkbox"/> Follow-up Visit
Prepared by: Jessica Kirkpatrick	Arrival Time: 1:00 PM	Departure Time: 2:30 PM
Date: April 18, 2013	Current Weather Conditions: Dry and sunny.	

<b>Owner/Operator Information</b>	
Name: Jim Shelton	Street: 9411 Axlund Road
City: Lynden	Zip Code: 98264-9705
Phone: 360-354-4298	Email:

<b>Site Information</b>	
County: Whatcom	Watershed: Bertrand, Lower Nooksack
General site description: Mr. Shelton keeps approximately 25 heifers at this farm through the summer. The heifers were brought on-site the week before this inspection. Mr. Shelton has already taken a number of steps to ensure that his operation is not discharging pollutants, and his farm is well managed.	

### Site Evaluation

<b>Stream Corridor and Areas Near Surface Water</b>	<input checked="" type="checkbox"/> Evaluated	<input type="checkbox"/> Not Evaluated
<input type="checkbox"/> Bare, exposed, eroding soils	<input type="checkbox"/> Absence of woody vegetation	
<input type="checkbox"/> Contaminated run-off (active or potential)	<input type="checkbox"/> Manure accumulations	
<input type="checkbox"/> Slumping stream banks and erosion	<input type="checkbox"/> Animal access to surface water	
<input type="checkbox"/> Overgrazing of grasses	<input type="checkbox"/> Livestock paths and trails along riparian areas	
Comments: McClellan Creek flows through the west side of the property. The creek was put into the CREP program some time ago. Livestock are excluded from a buffer that is an average of 70 feet wide. The area has been replanted in native vegetation and is in good condition.		

<b>Confinement Areas</b>	<input checked="" type="checkbox"/> Evaluated	<input type="checkbox"/> Not Evaluated
<input type="checkbox"/> Distance to surface water (      ft)	<input type="checkbox"/> Polluted run-off reaching surface water	
<input type="checkbox"/> Presence of mud and manure	<input type="checkbox"/> Roof runoff water flows to confinement areas	
<input type="checkbox"/> Signs of previous runoff reaching surface water	<input type="checkbox"/> Adjacent land slopes toward surface water	
Comments: There is a very small confinement area adjacent to the barn that is seldom used. At the time of the inspection, this did not appear to present any risk of discharging polluted runoff.		

<b>Stock Water</b>	<input checked="" type="checkbox"/> Evaluated	<input type="checkbox"/> Not Evaluated
<input type="checkbox"/> Distance to surface water (        ft) <input type="checkbox"/> Overflow from tanks on to the ground	<input type="checkbox"/> Mud and standing water at tanks <input type="checkbox"/> Animals accesses stream for stock water	
Comments: Off stream watering facilities are located in excess of 200 feet from surface waters and do not appear to pose a risk of discharging polluted runoff.		

<b>Upland Pasture Areas</b>	<input checked="" type="checkbox"/> Evaluated	<input type="checkbox"/> Not Evaluated
<input type="checkbox"/> Animal access to stream corridors <input type="checkbox"/> Distance to surface water (        ft)	<input type="checkbox"/> Signs of overgrazing and erosion <input type="checkbox"/> Manure accumulations and bare ground	
Comments: The cattle have been on the pasture for less than a week at the time of the inspection. Overall, the pastures have a vigorous growth of grass and are in good condition (see photo 1). The areas of concern are listed below. a) Groundwater was flowing off of lower part of the pasture west of the barn and discharging into a wetland area on the Shelton property (see photo 2). This water appeared to infiltrate before reaching water that is flowing from the wetland off the property and into McClelland Creek (see photo 3). b) A saturated depression near the north end of this pasture was muddy and trampled (see photo 4) c) The area of the west pasture near the barn has been trampled and denuded of vegetation. This area slopes towards the wetland on the west side of the pasture (see photo 5).		

<b>Manure Management</b>	<input checked="" type="checkbox"/> Evaluated	<input type="checkbox"/> Not Evaluated
Current manure management plan? No. Manure collected and stored? No. Manure storage properly sized? N/A Manure storage covered? N/A Manure being collected often? N/A	Manure stored on covered, impervious surface? No. Applied during growing season? N/A Manure applied during non-growing season? N/A Vegetated buffer when manure is applied? N/A Manure applied or stored off site? N/A	
Comments: Cattle are kept on pasture during the summer and removed from the farm during the winter. Manure is not collected and stored.		

<b>Other Areas of Concern</b>
Comments:

<b>Corrective Actions</b>

- ☐ Install livestock exclusion fencing to keep animals at least \_\_\_\_\_ ft from surface waters (35ft minimum)  
Permanent buffers function most effectively to protect water quality and prevent invasion by weeds when planted and maintained with native shrubs and trees suited to the soils and hydrology of the site.
- ☐ Install off-stream stock water watering facilities and locate them at least \_\_\_\_\_ ft from surface to prevent risk of water quality impacts (minimum of 75ft)
- ☐ Collect manure frequently and store it in a dry, covered area with an impervious floor or deck
- ☐ Apply manure during the growing season at proper rates and times (minimum of 100ft setback from surface water, or the use of a 35ft vegetative buffer)
- ☐ Site and design confinement and manure storage areas to prevent pollution of surface and ground water
- ☐ Provide heavy use protection in confinement areas and at stock tanks to prevent run-off
- ☐ Construct stream-crossings and emergency water locations in ways that protect the stream
- ☒ Other Actions: Install a temporary fence to keep cattle out of all pasture areas that have standing or flowing water. Areas with standing or flowing water observed during the inspection are the north end of the west pasture and the area that slopes towards the fence west of the barn. Grazing these areas when they are dry should pose little risk of discharging pollutants.

Photos Taken: ☒ Yes

☐ No

Sample Taken: ☐ Yes

☒ No

#### Additional Comments

Comments:

#### Ecology Contact Information

Name: Jessica Kirkpatrick

Regional Office: Bellingham Field Office

Phone: 360-715-5217

Email: Jessica.Kirkpatrick@ecy.wa.gov

Physical Address: 1440 10<sup>th</sup> St., Suite 102  
Bellingham, WA 98225-7028

Mailing Address: 1440 10<sup>th</sup> St., Suite 102  
Bellingham, WA 98225-7028

Inspector Signature: \_\_\_\_\_



Date: May 9, 2013