

Livestock and Water Quality Site Visit

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| Site Visit Information | <input checked="" type="checkbox"/> First Visit | <input type="checkbox"/> Follow-up Visit |
| Prepared by: Jessica Kirkpatrick | Arrival Time: 10:05 a.m. | Departure Time: 10:40 a.m. |
| Date: 2/20/2013 | Current Weather Conditions: raining | |

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|-----------------------------------|-----------------------------|
| Owner/Operator Information | |
| Name: Dan Crabtree | Street: 9727 Markworth Road |
| City: Blaine | Zip Code: 98230 |
| Phone: 360-354-6092 | Email: |

| | |
|---|---------------------|
| Site Information | |
| County: Whatcom | Watershed: Nooksack |
| <p>General site description (include information about nearby waterbodies and description of farm conditions): This is a small cattle farm and residence in the northwest quadrant of the Bertrand Creek sub-basin watershed. The property appears to be well-run and actively managed by Mr. Crabtree, who has already installed several management practices to protect water quality. The property drains to roadside ditches and field drainage ditches that eventually drain into Cave Creek near the border. Two cattle have access to a grass pasture on the South half of the property and to a wooded area on the North half of the property.</p> | |

Site Evaluation

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|---|---|--|
| Stream Corridor and Areas Near Surface Water | <input checked="" type="checkbox"/> Evaluated | <input type="checkbox"/> Not Evaluated |
| <input checked="" type="checkbox"/> Bare, exposed, eroding soils <input checked="" type="checkbox"/> Contaminated run-off (active or potential) <input type="checkbox"/> Slumping stream banks and erosion <input checked="" type="checkbox"/> Overgrazing of grasses | <input type="checkbox"/> Absence of woody vegetation <input checked="" type="checkbox"/> Manure accumulations <input checked="" type="checkbox"/> Animal access to surface water <input checked="" type="checkbox"/> Livestock paths and trails along riparian areas | |
| <p>Comments: The two cattle currently have access to a seasonal seep that drains into a small pond and discharges towards the roadside ditch along Markworth Road. The area around the seep had been trampled by the cattle and was not supporting vegetation. Mr. Crabtree agreed to move an existing electric fence approximately 40 feet uphill of the seep to exclude the cattle from this area in the winter months. The seep dries up during the summer and does not discharge into the pond.</p> | | |

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|--|---|--|
| Confinement Areas | <input checked="" type="checkbox"/> Evaluated | <input type="checkbox"/> Not Evaluated |
| <input type="checkbox"/> Distance to surface water (300 ft) <input type="checkbox"/> Presence of mud and manure <input type="checkbox"/> Signs of previous runoff reaching surface water | <input type="checkbox"/> Polluted run-off reaching surface water <input type="checkbox"/> Roof runoff water flows to confinement areas <input type="checkbox"/> Adjacent land slopes toward surface water | |

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Dear Mr. [Name],

I have your letter of the 15th and am glad to hear that you are well. I am also well and hope these few lines will find you all the same.

I have not much news to write at present. I am still in the same place and doing the same work. I have not had much time to write lately but I thought I would write a few lines to let you know how I am getting on.

I have not had much news from you lately but I hope you are all well. I have not had much time to write lately but I thought I would write a few lines to let you know how I am getting on.

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Comments: There are no confinement areas on the property.

| Stock Water | <input checked="" type="checkbox"/> Evaluated | <input type="checkbox"/> Not Evaluated |
|---|---|--|
| <input checked="" type="checkbox"/> Distance to surface water (50 ft) | <input checked="" type="checkbox"/> Mud and standing water at tanks | |
| <input type="checkbox"/> Overflow from tanks on to the ground | <input type="checkbox"/> Animals accesses stream for stock water | |
| Comments: The off-site watering facility near the entrance to the property has some mud and standing water around it, however, there is a 50' grass buffer between this area and the roadside ditch along Markworth Road. | | |

| Upland Pasture Areas | <input checked="" type="checkbox"/> Evaluated | <input type="checkbox"/> Not Evaluated |
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| <input type="checkbox"/> Animal access to stream corridors | <input checked="" type="checkbox"/> Signs of overgrazing and erosion | |
| <input type="checkbox"/> Distance to surface water (ft) | <input type="checkbox"/> Manure accumulations and bare ground | |
| Comments: The pastures on this farm are in good condition, with the exception of the wooded area on the North side of the property. This woodland pasture was bare in spots. | | |

| Manure Management | <input checked="" type="checkbox"/> Evaluated | <input type="checkbox"/> Not Evaluated |
|---|--|--|
| Current manure management plan? no | Manure stored on covered, impervious surface? no | |
| Manure collected and stored? yes | Applied during growing season? yes | |
| Manure storage properly sized? | Manure applied during non-growing season? | |
| Manure storage covered? | Vegetated buffer when manure is applied? yes | |
| Manure being collected often? | Manure applied or stored off site? | |
| Comments: Manure and wood shavings are collected from a small shed where the two cattle are fed. This small amount of material is stored in a pile until it is transferred into a compost bin and then spread on a family vegetable garden. The manure and wood shavings pile do not appear to be a source of pollutants. | | |

| Other Areas of Concern |
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| Comments: |

| Corrective Actions |
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| <input checked="" type="checkbox"/> Install livestock exclusion fencing to keep animals at least 35 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. |
| <input type="checkbox"/> 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: Fence cattle away from the seasonal seep on the North side of the property during the winter rainy months.

Photos Taken: Yes No

Sample Taken: Yes No

Additional Comments

Comments: Mr. Crabtree has a well-run and clean looking farm, he was very cooperative in making the minor adjustment that was needed to protect water quality. The fence to exclude cattle from the seasonal seep should be put in place within 30 days.

Ecology Contact Information

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| Name: Jessica Kirkpatrick | Regional Office: Bellingham Field Office |
| Phone: 360-715-5200 | Email: jessica.kirkpatrick@ecy.wa.gov |
| Physical Address: 1440 - 10th Street, Suite 102, Bellingham, WA 9822 | Mailing Address: 1440 - 10th Street, Suite 102, Bellingham, WA 9822 |

Conservation District Referral: Yes No

Whatcom Conservation District
6975 Hannegan Road
Lynden, WA 98264
(360) 354-2035
ccheever@whatcomcd.org

A copy of this inspection form will be provided to your local conservation district.

Inspector Signature: _____

Date: 2/20/2013