

Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|---------------------------------|---------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Krista Roma, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | Yes | Plot Location: Upland (see map) | |
| Is the site significantly disturbed? | No | | |
| Is the area a potential Problem Area? | No | Plot ID: | 1 |

VEGETATION (Dominant = 20% cover or more)

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|------------------------------|---------|-----------|--------------------------|---------|-----------|
| <i>Pseudotsuga menziesii</i> | 20 | FACU | <i>Rubus spectabilis</i> | 20 | FAC+ |
| <i>Alnus rubra</i> | 20 | FAC | <i>Sambucus racemosa</i> | 20 | FACU |
| <i>Thuja plicata</i> | 40 | FAC | <i>Rubus parviflorus</i> | 10 | FAC- |
| <i>Acer circinatum</i> | 40 | FAC- | <i>Urtica dioica</i> | 10 | FAC+ |
| <i>Tolmiea menziesii</i> | 20 | FAC | <i>Rubus ursinus</i> | 10 | FACU |

Hydrophytic Vegetation Indicator: % of dominants

| | | | |
|----------------------------------|---------------------|-------------|-----|
| FAC to OBL | 57% | FAC- to UPL | 43% |
| Hydrophytic vegetation dominant? | Y/N | Y | |
| Rationale for decision/ Remarks: | >50% FAC or wetter. | | |

HYDROLOGY

| | | | | | |
|---------------------------------------|--------------------------------------|-----------------------------|------|--------------------------|------|
| Depth of inundation: | None | Depth to free water in pit: | None | Depth to saturated soil: | None |
| Wetland hydrology indicators present? | Y/N | N | | | |
| Rationale for decision/Remarks: | Lacks evidence of wetland hydrology. | | | | |

SOILS

| Map Unit Name (Series & Phase): | (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric) | | | | |
|-------------------------------------|--|----------------------------|------------------------|---|-------------------------------|
| Depth | Matrix color (Munsell moist) | Redox. concentration color | Redox. depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
| 0-16" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| Hydric soil indicators present? Y/N | N | | | | |
| Rationale for decision/ Remarks | Does not meet any of the hydric soil indicators. | | | | |

| | | | |
|----------------------------------|--|---|---|
| WETLAND DETERMINATION Y/N | WETLAND DETERMINATION Y/N | | |
| Hydrophytic vegetation dominant? | Y | Wetland hydrology indicators present? | N |
| Hydric soil indicators present? | N | Is the sampling point within a wetland? | N |
| Rationale for decision/ Remarks: | Lacks hydric soils and wetland hydrology indicators. | | |

Data Form: Routine On-Site Wetland Determination

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| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Krista Rome, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | Yes | Plot Location: Upland (see map) | |
| Is the site significantly disturbed? | No | | |
| Is the area a potential Problem Area? | No | Plot ID: | 2 |

VEGETATION (Dominant = 20% cover or more)

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|----------------------------|---------|-----------|----------------------------|---------|-----------|
| <i>Alnus rubra</i> | 60 | FAC | <i>Rubus parviflorus</i> | 20 | FAC- |
| <i>Populus balsamifera</i> | 20 | FAC | <i>Carex deweyana</i> | 60 | FACU |
| <i>Rubus spectabilis</i> | 20 | FAC+ | <i>Rhamnus purshiana</i> | 10 | FAC- |
| <i>Sambucus racemosa</i> | 30 | FACU | <i>Holodiscus discolor</i> | 10 | FACU |
| <i>Pteridium aquilinum</i> | 30 | FACU | <i>Rubus ursinus</i> | 10 | FACU |

Hydrophytic Vegetation Indicator: % of dominants

| | | | |
|----------------------------------|---------------------|-------------|-----|
| FAC to OBL | 57% | FAC- to UPL | 43% |
| Hydrophytic vegetation dominant? | Y/N | Y | |
| Rationale for decision/ Remarks: | >50% FAC or wetter. | | |

HYDROLOGY

| | | | | | |
|---------------------------------------|--------------------------------------|-----------------------------|------|--------------------------|------|
| Depth of inundation: | None | Depth to free water in pit: | None | Depth to saturated soil: | None |
| Wetland hydrology indicators present? | Y/N | N | | | |
| Rationale for decision/Remarks: | Lacks evidence of wetland hydrology. | | | | |

SOILS

| Map Unit Name (Series & Phase): | (186) Winston Silt Loam, 0 To 3 Percent Slopes (listed non-hydric) | | | | |
|-------------------------------------|--|----------------------------|------------------------|---|-------------------------------|
| Depth | Matrix color (Munsell moist) | Redox. concentration color | Redox. depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
| 0-2" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 2-16" | 10YR 3/3 | N/A | N/A | N/A | Gravelly Loam |
| Hydric soil indicators present? Y/N | N | | | | |
| Rationale for decision/ Remarks | Does not meet any of the hydric soil indicators. | | | | |

| | | | |
|----------------------------------|--|---|---|
| WETLAND DETERMINATION Y/N | WETLAND DETERMINATION Y/N | | |
| Hydrophytic vegetation dominant? | Y | Wetland hydrology indicators present? | N |
| Hydric soil indicators present? | N | Is the sampling point within a wetland? | N |
| Rationale for decision/ Remarks: | Lacks hydric soils and wetland hydrology indicators. | | |



Data Form: Routine On-Site Wetland Determination

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| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Krista Rome, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: Upland (see map) | |
| Is the area a potential Problem Area? | No | Plot ID: | 3 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------------|---------|-----------|--------------------------------|---------|-----------|
| <i>Arctostaphylos uva-ursi</i> | 40 | FACU- | <i>Matonia nervosa</i> | 10 | FACU |
| <i>Rubus parviflorus</i> | 20 | FAC- | <i>Pteridium aquilinum</i> | 10 | FACU |
| <i>Populus balsamifera</i> | 20 | FAC | <i>Epilobium angustifolium</i> | 10 | FACU+ |
| <i>Alnus rubra</i> | 20 | FAC | <i>Rubus ursinus</i> | 10 | FACU |
| <i>Thuja plicata</i> | 20 | FAC | <i>Pseudotsuga menziesii</i> | 10 | FACU |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL: 60% FAC- to UPL: 40%
 Hydrophytic vegetation dominant? Y/N: Y
 Rationale for decision/Remarks: >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N: N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (186) Winston Silt Loam, 0 To 3 Percent Slopes (listed non-hydric)

| | | | | | |
|-------|------------------------------|---------------------------|-----------------------|------------------------------------|-------------------------------|
| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox depletion or size & contrast | Soil texture, structure, etc. |
| 0-2" | 10YR 2/2 | N/A | N/A | N/A | Duff |
| 2-16" | 7.5YR 3/4 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N: N
 Rationale for decision/Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N: N
 Wetland hydrology indicators present? N
 Hydric soil indicators present? N
 Is the sampling point within a wetland? N
 Rationale for decision/Remarks: Lacks hydric soils and wetland hydrology indicators.



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| Investigators: | Bill Cantrell, Krista Rome, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: Upland (see map) | |
| Is the area a potential Problem Area? | No | Plot ID: | 4 |

VEGETATION (Dominant = 20% cover or more)

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------------|---------|-----------|----------------------------|---------|-----------|
| <i>Acer macrophyllum</i> | 20 | FACU | <i>Rubus parviflorus</i> | 40 | FAC- |
| <i>Alnus rubra</i> | 40 | FAC | <i>Rubus spectabilis</i> | 20 | FAC- |
| <i>Populus balsamifera</i> | 20 | FAC | <i>Rubus ursinus</i> | 70 | FACU |
| <i>Rhamnus purshiana</i> | 20 | FAC- | <i>Tsuga heterophylla</i> | 10 | FACU+ |
| <i>Epilobium angustifolium</i> | 40 | FACU- | <i>Polystichum munitum</i> | 10 | FACU |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL: 37% FAC- to UPL: 63%
 Hydrophytic vegetation dominant? Y/N: N
 Rationale for decision/Remarks: Not >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N: N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| | | | | | |
|-------|------------------------------|---------------------------|-----------------------|------------------------------------|-------------------------------|
| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox depletion or size & contrast | Soil texture, structure, etc. |
| 0-5" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 5-16" | 7.5YR 3/4 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N: N
 Rationale for decision/Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N: N
 Wetland hydrology indicators present? N
 Hydric soil indicators present? N
 Is the sampling point within a wetland? N
 Rationale for decision/Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



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| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigator: | Bill Cantrell, Krista Roma, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: Upland (see map) | |
| Is the area a potential Problem Area? | No | Plot ID: | 5 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------------|---------|-----------|-------------------------------|---------|-----------|
| <i>Populus balsamifera</i> | 30 | FAC | <i>Agrivis tomas</i> | 50 | FAC |
| <i>Alnus rubra</i> | 30 | FAC | <i>Anaphalis margaritacea</i> | 10 | UPL |
| <i>Epilobium angustifolium</i> | 20 | FACU+ | <i>Leucanthemum vulgare</i> | 10 | UPL |
| <i>Rubus parviflorus</i> | 20 | FAC- | <i>Spiraea douglasii</i> | 5 | FACW |
| <i>Halea lanata</i> | 30 | FAC | <i>Rubus leucodermis</i> | 5 | UPL |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL 60% FAC- to UPL 40%

Hydrophytic vegetation dominant? Y/N Y

Rationale for decision/ Remarks: >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox depletion or size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|------------------------------------|-------------------------------|
| 0-5" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 5-16" | 7.5YR 3/4 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N

Hydrophytic vegetation dominant? Y Wetland hydrology indicators present? N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydric soils and wetland hydrology indicators.



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| | | | |
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| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigator: | Bill Cantrell, Krista Roma, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: Upland (see map) | |
| Is the area a potential Problem Area? | No | Plot ID: | 6 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|----------------------------|---------|-----------|--------------------------------|---------|-----------|
| <i>Acer macrophyllum</i> | 40 | FACU | <i>Acer circinatum</i> | 10 | FAC- |
| <i>Betula papyrifera</i> | 40 | FAC | <i>Epilobium angustifolium</i> | 10 | FACU+ |
| <i>Rubus urinus</i> | 60 | FACU | <i>Osmieria scariosiformis</i> | 10 | FACU |
| <i>Pedicularis montana</i> | 20 | FACU | <i>Anaphalis margaritacea</i> | 10 | UPL |
| | | | <i>Rubus parviflorus</i> | 5 | FAC- |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL 25% FAC- to UPL 75%

Hydrophytic vegetation dominant? Y/N N

Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox depletion or size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|------------------------------------|-------------------------------|
| 0-4" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 4-16" | 10YR 3/3 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N

Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



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|---|---|---------|---------------------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whitcomb |
| Investigators: | Bill Cantrell, Krista Roma, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | | | |
| | | Yes | Plot Location: Upland (see map) |
| Is the site significantly disturbed? | | | |
| | | No | |
| Is the area a potential Problem Area? | | | |
| | | No | Plot ID: 7 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------------|---------|-----------|-------------------------------|---------|-----------|
| <i>Populus balsamifera</i> | 90 | FAC | <i>Anaphalis margaritacea</i> | 10 | UPL |
| <i>Epilobium angustifolium</i> | 30 | FACU+ | <i>Hypericum perforatum</i> | 10 | UPL |
| <i>Rubus ursinus</i> | 50 | FACU | <i>Rubus leucodermis</i> | 10 | UPL |
| | | | <i>Oenothera cernuiformis</i> | 10 | FACU |
| | | | <i>Rubus parviflorus</i> | 10 | FAC- |

VEGETATION (Dominant = 20% cover or more)

Hydrophytic Vegetation Indicator: % of dominants 33%

FAC to OBL FAC- to UPL N

Hydrophytic vegetation dominant? Y/N N

Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (17) Blathen Gravelly Loam, S To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|---|-------------------------------|
| 0-3" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 3-16" | 10YR 3/3 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION

Hydrophytic vegetation dominant? Y/N N Wetland hydrology indicators present? Y/N N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



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| | | | |
|---|---|---------|---------------------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whitcomb |
| Investigators: | Bill Cantrell, Krista Roma, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | | | |
| | | Yes | Plot Location: Upland (see map) |
| Is the site significantly disturbed? | | | |
| | | No | |
| Is the area a potential Problem Area? | | | |
| | | No | Plot ID: 8 |

VEGETATION (Dominant = 20% cover or more)

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|------------------------------|---------|-----------|-----------------------------|---------|-----------|
| <i>Tsuga heterophylla</i> | 30 | FACU+ | <i>Lonicera involucrata</i> | 10 | FACW |
| <i>Acer macrophyllum</i> | 20 | FACU | <i>Rhamnus parviflora</i> | 10 | FAC- |
| <i>Alnus rubra</i> | 20 | FAC | <i>Rubus ursinus</i> | 10 | FACU |
| <i>Acer circinatum</i> | 40 | FAC- | <i>Trientalis latifolia</i> | 5 | UPL |
| <i>Polystichum munitum</i> | 30 | FACU- | <i>Mahonia nervosa</i> | 5 | FACU |
| <i>Arostachylus arvensis</i> | 5 | FACU- | <i>Lonicera ciliosa</i> | 5 | UPL |

Hydrophytic Vegetation Indicator: % of dominants 20%

FAC to OBL FAC- to UPL N

Hydrophytic vegetation dominant? Y/N N

Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (17) Blathen Gravelly Loam, S To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|---|-------------------------------|
| 0-4" | 10YR 2/2 | N/A | N/A | N/A | Gravelly Loam |
| 4-16" | 10YR 3/3 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION

Hydrophytic vegetation dominant? Y/N N Wetland hydrology indicators present? Y/N N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



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|---|---|---------|---------------------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shamuck, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | | | |
| | | Yes | Plot Location: Upland (see map) |
| | | No | |
| Is the site significantly disturbed? | | | |
| | | No | |
| Is the area a potential Problem Area? | | | |
| | | No | Plot ID: 9 |

| VEGETATION (Dominant = 20% cover or more) | | | |
|---|---------|-----------|---------|
| Observed Plant Species | % Cover | Indicator | % Cover |
| <i>Alnus rubra</i> | 50 | FAC | |
| <i>Taxus heterophylla</i> | 40 | FACU+ | |
| <i>Acer circinatum</i> | 95 | FAC- | |
| <i>Malonia nervosa</i> | 70 | FACU | |

| | | |
|--|-----|-------------|
| Hydrophytic Vegetation Indicator: % of dominants | | |
| FAC to OBL | 25% | FAC- to UPL |
| Hydrophytic vegetation dominant? | Y/N | N |
| Rationale for decision/ Remarks: Not >20% FAC or wetter. | | |

| HYDROLOGY | | | |
|--|------|-----------------------------|--------------------------|
| Depth of inundation: | None | Depth to free water in pit: | None |
| Wetland hydrology indicators present? | Y/N | N | Depth to saturated soil: |
| Rationale for decision/Remarks: Lacks evidence of wetland hydrology. | | | |

| SOILS | | | | |
|--|------------------------------|----------------------------|--|-------------------------------|
| Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, S To 15 Percent Slopes (listed non-hydric) | | | | |
| Depth | Matrix color (Munsell moist) | Redox. concentration color | Redox. depletion color size & contrast | Soil texture, structure, etc. |
| 0-4" | 10YR 2/2 | N/A | N/A | Gravelly Loam |
| 4-16" | 10YR 3/3 | N/A | N/A | Gravelly Loam |
| Hydric soil indicators present? Y/N N | | | | |
| Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators. | | | | |

| WETLAND DETERMINATION | | |
|--|-----|---------------------------------------|
| Hydrophytic vegetation dominant? | Y/N | WETLAND DETERMINATION |
| N | N | Y/N |
| Hydric soil indicators present? | N | Wetland hydrology indicators present? |
| N | N | N |
| Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators. | | |



Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|---------|---------------------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shamuck, Cantrell & Associates, Inc. | State: | WA |
| | | T/R/S: | T40N/R05E/S22 |
| Do Normal Circumstances exist on this site? | | | |
| | | Yes | Plot Location: Upland (see map) |
| | | No | |
| Is the site significantly disturbed? | | | |
| | | No | |
| Is the area a potential Problem Area? | | | |
| | | No | Plot ID: 10 |

| VEGETATION (Dominant = 20% cover or more) | | | |
|---|---------|-----------|---------|
| Observed Plant Species | % Cover | Indicator | % Cover |
| <i>Rubus spectabilis</i> | 95 | FAC+ | 10 |
| <i>Rubus parviflorus</i> | 30 | FAC- | |
| <i>Carex demissa</i> | 20 | FACU | |
| | | | |
| | | | |

| | | |
|--|-----|-------------|
| Hydrophytic Vegetation Indicator: % of dominants | | |
| FAC to OBL | 33% | FAC- to UPL |
| Hydrophytic vegetation dominant? | Y/N | N |
| Rationale for decision/ Remarks: Not >50% FAC or wetter. | | |

| HYDROLOGY | | | |
|--|------|-----------------------------|--------------------------|
| Depth of inundation: | None | Depth to free water in pit: | None |
| Wetland hydrology indicators present? | Y/N | N | Depth to saturated soil: |
| Rationale for decision/Remarks: Lacks evidence of wetland hydrology. | | | |

| SOILS | | | | |
|--|------------------------------|----------------------------|--|-------------------------------|
| Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, S To 15 Percent Slopes (listed non-hydric) | | | | |
| Depth | Matrix color (Munsell moist) | Redox. concentration color | Redox. depletion color size & contrast | Soil texture, structure, etc. |
| 0-2" | 10YR 3/3 | N/A | N/A | Gravelly Loam |
| 2-16" | 10YR 4/4 | N/A | N/A | Gravelly Loam |
| Hydric soil indicators present? Y/N N | | | | |
| Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators. | | | | |

| WETLAND DETERMINATION | | |
|--|-----|---------------------------------------|
| Hydrophytic vegetation dominant? | Y/N | WETLAND DETERMINATION |
| N | N | Y/N |
| Hydric soil indicators present? | N | Wetland hydrology indicators present? |
| N | N | N |
| Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators. | | |



Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|----------------|------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: | Upland (see map) |
| Is the area a potential Problem Area? | No | Plot ID: | 11 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|----------------------------|---------|-----------|--------------------------------|---------|-----------|
| <i>Betula papyrifera</i> | 60 | FAC | <i>Lonicera involucrata</i> | 30 | FACW |
| <i>Populus balsamifera</i> | 30 | FAC | <i>Epilobium angustifolium</i> | 40 | FACU+ |
| <i>Pteridium aquilinum</i> | 90 | FACU | | | |
| <i>Rubus ursinus</i> | 60 | FACU | | | |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL 50% FAC- to UPL 50%
 Hydrophytic vegetation dominant? Y/N N
 Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (17) Blithen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)
 Depth Matrix color (Munsell moist) Redox. concentration color Redox. depletion color Soil texture, structure, etc.
 0-8" 10YR 2/2 N/A N/A N/A Gravelly Loam
 8-16" 10YR 3/4 N/A N/A N/A Gravelly Loam
 Hydric soil indicators present? Y/N N
 Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N
 Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N
 Hydric soil indicators present? N Is the sampling point within a wetland? N
 Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|----------------|------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W1/2 of NW1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | T/R/S: | T40N/R05E/S22 |
| Is the site significantly disturbed? | No | Plot Location: | Upland (see map) |
| Is the area a potential Problem Area? | No | Plot ID: | 12 |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------|---------|-----------|------------------------|---------|-----------|
| <i>Prunus americana</i> | 60 | FACU | <i>Rubus ursinus</i> | 20 | FACU |
| <i>Betula papyrifera</i> | 40 | FAC | <i>Acer circinatum</i> | 20 | FAC- |
| <i>Rhamnus purshiana</i> | 30 | FAC- | | | |
| <i>Rubus spectabilis</i> | 70 | FAC+ | | | |

Hydrophytic Vegetation Indicator: % of dominants
 FAC to OBL 33% FAC- to UPL 67%
 Hydrophytic vegetation dominant? Y/N N
 Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (17) Blithen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)
 Depth Matrix color (Munsell moist) Redox. concentration color Redox. depletion color Soil texture, structure, etc.
 0-8" 10YR 2/2 N/A N/A N/A Gravelly Loam
 8-16" 10YR 4/4 N/A N/A N/A Gravelly Loam
 Hydric soil indicators present? Y/N N
 Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N
 Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N
 Hydric soil indicators present? N Is the sampling point within a wetland? N
 Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|----------------|------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W 1/2 of NW 1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | Plot Location: | Upland (see map) |
| Is the site significantly disturbed? | No | Plot ID: | 13 |
| Is the area a potential Problem Area? | No | | |

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|----------------------------|---------|-----------|--------------------------|---------|-----------|
| <i>Acer chloratum</i> | 50 | FAC- | <i>Rubus spectabilis</i> | 10 | FAC+ |
| <i>Taxus heterophylla</i> | 50 | FACU+ | <i>Rubus ursinus</i> | 10 | FACU |
| <i>Polystichum munitum</i> | 20 | FACU | | | |
| <i>Malthonia nervosa</i> | 20 | FACU | | | |

Hydrophytic Vegetation Indicators: % of dominants
 FAC to OBL: 0% FAC- to UPL: 100%
 Hydrophytic vegetation dominant? Y/N: N
 Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N: N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|---|-------------------------------|
| 0-16" | 10YR 3/3 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N: N
 Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N: N **WETLAND DETERMINATION** Y/N: N
 Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N
 Hydric soil indicators present? N Is the sampling point within a wetland? N
 Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



Data Form: Routine On-Site Wetland Determination

| | | | |
|---|---|----------------|------------------|
| Project/Site: | Red Mountain 20-Acre Parcel W 1/2 of NW 1/4 of SE 1/4 of T40N/R05E/S22 | Date: | July 31, 2007 |
| Applicant: | S.C. Goshen | County: | Whatcom |
| Investigators: | Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc. | State: | WA |
| Do Normal Circumstances exist on this site? | Yes | Plot Location: | Upland (see map) |
| Is the site significantly disturbed? | No | Plot ID: | 14 |
| Is the area a potential Problem Area? | No | | |

VEGETATION (Dominant = 20% cover or more)

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|--------------------------------|---------|-----------|------------------------|---------|-----------|
| <i>Rubus spectabilis</i> | 60 | FAC+ | | | |
| <i>Pteridium aquilinum</i> | 20 | FACU | | | |
| <i>Oenothera cernisiformis</i> | 30 | FACU | | | |
| <i>Acer macrophyllum</i> | 20 | FACU | | | |

Hydrophytic Vegetation Indicators: % of dominants
 FAC to OBL: 25% FAC- to UPL: 75%
 Hydrophytic vegetation dominant? Y/N: N
 Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY
 Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None
 Wetland hydrology indicators present? Y/N: N
 Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS
 Map Unit Name (Series & Phase): (17) Blethen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color | Redox concentration or depletion: abundance size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|-----------------------|---|-------------------------------|
| 0-2" | 10YR 2/2 | N/A | N/A | N/A | Duff |
| 2-16" | 10YR 4/4 | N/A | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N: N
 Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N: N **WETLAND DETERMINATION** Y/N: N
 Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N
 Hydric soil indicators present? N Is the sampling point within a wetland? N
 Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



Data Form: Routine On-Site Wetland Determination

Project/Site: Red Mountain 20-Acre Parcel
W 1/2 of NW 1/4 of SE 1/4 of T40N/R05E/S22

Date: July 31, 2007
County: Whatcom
State: WA

Applicant: S.C. Goshen

Investigator: Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc.
T/R/S: T40N/R05E/S22

Plot Location: Upland (see map)

Do Normal Circumstances exist on this site? Yes

Is the site significantly disturbed? No

Is the area a potential Problem Area? No

Plot ID: 15

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|----------------------------|---------|-----------|----------------------------|---------|-----------|
| <i>Carex diocarpa</i> | 20 | FACU | <i>Rubus pernyiiflorus</i> | 10 | FAC- |
| <i>Populus balsamifera</i> | 100 | FAC | <i>Rubus spectabilis</i> | 5 | FAC+ |
| | | | <i>Urtica dioica</i> | 10 | FAC+ |

Hydrophytic Vegetation Indicators: % of dominants
FAC to OBL 50% FAC- to UPL

Hydrophytic vegetation dominant? Y/N N

Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (17) Blithen Gravelly Loam, 5 To 15 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|---------------------------------------|-------------------------------|
| 0-2 | 10YR 2/2 | N/A | N/A | Loam |
| 2-16" | 10YR 4/4 | N/A | N/A | Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N

Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.



Data Form: Routine On-Site Wetland Determination

Project/Site: Red Mountain 20-Acre Parcel
W 1/2 of NW 1/4 of SE 1/4 of T40N/R05E/S22

Date: July 31, 2007
County: Whatcom
State: WA

Applicant: S.C. Goshen

Investigator: Bill Cantrell, Brett Shattuck, Cantrell & Associates, Inc.
T/R/S: T40N/R05E/S22

Plot Location: Upland (see map)

Do Normal Circumstances exist on this site? Yes

Is the site significantly disturbed? No

Is the area a potential Problem Area? No

Plot ID: 16

| Observed Plant Species | % Cover | Indicator | Observed Plant Species | % Cover | Indicator |
|-----------------------------|---------|-----------|--------------------------------|---------|-----------|
| <i>Polypodium maritimum</i> | 30 | FACU | <i>Rubus urinus</i> | 5 | FACU |
| <i>Thlas plicata</i> | 20 | FAC | <i>Altophium filix-fermina</i> | 5 | FAC+ |
| | | | <i>Tynga heterophylla</i> | 10 | FACU+ |

Hydrophytic Vegetation Indicators: % of dominants
FAC to OBL 50% FAC- to UPL

Hydrophytic vegetation dominant? Y/N N

Rationale for decision/ Remarks: Not >50% FAC or wetter.

HYDROLOGY

Depth of inundation: None Depth to free water in pit: None Depth to saturated soil: None

Wetland hydrology indicators present? Y/N N

Rationale for decision/Remarks: Lacks evidence of wetland hydrology.

SOILS

Map Unit Name (Series & Phase): (186) Winston Silt Loam, 0 To 3 Percent Slopes (listed non-hydric)

| Depth | Matrix color (Munsell moist) | Redox concentration color | Redox depletion color size & contrast | Soil texture, structure, etc. |
|-------|------------------------------|---------------------------|---------------------------------------|-------------------------------|
| 0-1 | 10YR 2/2 | N/A | N/A | Loam |
| 1-16" | 10YR 3/6 | N/A | N/A | Gravelly Loam |

Hydric soil indicators present? Y/N N

Rationale for decision/ Remarks: Does not meet any of the hydric soil indicators.

WETLAND DETERMINATION Y/N WETLAND DETERMINATION Y/N

Hydrophytic vegetation dominant? N Wetland hydrology indicators present? N

Hydric soil indicators present? N Is the sampling point within a wetland? N

Rationale for decision/ Remarks: Lacks hydrophytic vegetation, hydric soils, and wetland hydrology indicators.