# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC106F-334** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Oct 05 2022 |
| UTM Coordinates: | Wp. 088 (MB) |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Approximate crossing location.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☑ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Culvert under road, grassy channel d/s. W/c is drainage from road, flows into treed area/wetland.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC106g-400** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL |
| Field Assessment Date: | 05-Oct-22 |
| UTM Coordinates: | WP69-WP70 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | N/A |
| Average Wetted Width (m) | N/A |
| Average Bankful Depth (m) | N/A |
| Average Water Depth (m) | N/A |
| Average Pool Depth (m) | N/A |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Habitat at approximate crossing location.**

**Photo 2: Habitat at WP69.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | Mature Forest | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☑ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |
| **ADDITIONAL NOTES** | | |
| Start of 'orange marked channel' on maps. No channel, no water, no flow, no scour. | | |

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC106g-2084** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Oct 05 2022 |
| UTM Coordinates: | Wp. 071 (MB) |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Approximate crossing location**

**Photo 2: General surroundings around approximate crossing loc**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Wetted area, small pools. No overland flow. Upper end is channelized, no flow, wetted area, reeds. In heavy debris area. Ephemeral, no habitat.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-938** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 08 2022 |
| UTM Coordinates: | Wp.1645 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Upstream at crossing**

**Photo 2: Downstream at crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |

| IMPORTANT FEATURES OBSERVED | |
|---|---|
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Pink line, ephemeral drainage in ditch.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-965** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 09 2022 |
| UTM Coordinates: | Wp. 1649 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 0.91 |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.28 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Culvert at crossing**

**Photo 2: No channel (U/S)**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☑ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☑ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |

**ADDITIONAL NOTES**

Plunge pool at crossing 140cm channel, 28cm depth channel appears to dissapate or run along the surface DS, US channel no water 41cm. Watercourse runs along ditch of road channel change from defined to undefined. Wp.1651 US no channel. Ephemeral WC with intermittent characteristics, likely connect to F/Q

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-967** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 09 2022 |
| UTM Coordinates: | Wp. 1651 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 0.67 |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.10 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Low |

**PHOTOS**

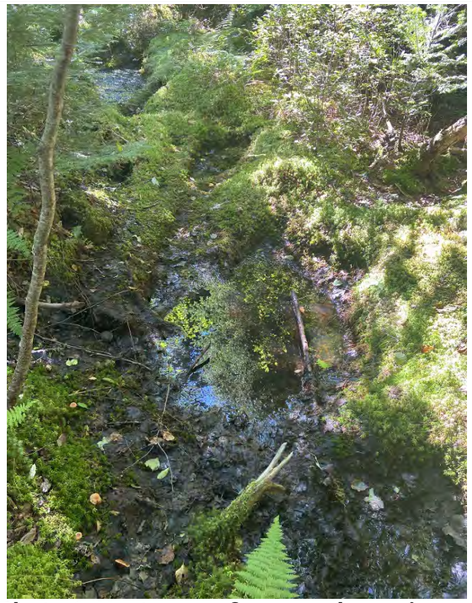

**Photo 1: Upstream of assumed crossing**

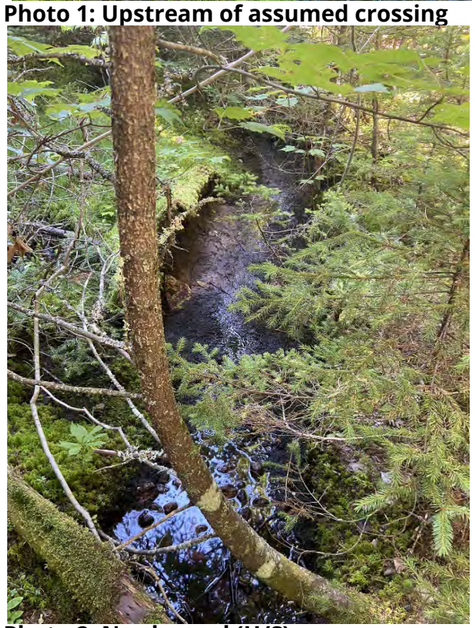

**Photo 2: No channel (U/S)**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Ephemeral drainage, no defined channel, looks like it flows under boulders. DS Channeled area, might be old tire track from 30-40 years ago. Two "channels" seen but overtime the flow used the tracks - no flow, standing water. "channel" 67cm, 10cm deep.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-971** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 09 2022 |
| UTM Coordinates: | Wp. 1654 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | Dry |

**PHOTOS**

**Photo 1: Culvert at crossing**

**Photo 2: Upstream, slight channelization, no water.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |

| IMPORTANT FEATURES OBSERVED | |
|---|---|
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Wp. 1654 - U/S no water, channelized here. At crossing surface flow, no channel, no water.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-1338** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 08 2022 |
| UTM Coordinates: | Wp. 42 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Fines |
| Subdominant | Gravel |
| Subdominant | Cobble |
| Trace | Boulder |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.1 |
| Average Wetted Width (m) | N/A |
| Average Bankful Depth (m) | 0.3 |
| Average Water Depth (m) | N/A |
| Average Pool Depth (m) | N/A |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent |
| Stage (season was very dry) | Dry |

**PHOTOS**

**Photo 1: Upstream at assumed crossing**

**Photo 2: Downstream at assumed crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | | ☑ |
| Flows into Fish Habitat Downstream | | ☐ |
| Underground Sections or Groundwater | | ☐ |
| Surface Flow | | ☐ |
| Wetland Corridor (Flow Between Wetlands) | | ☐ |
| Barrier | | ☐ |
| Artificial Channelization | | ☐ |
| Culvert or Bridge | | ☐ |
| Water Flowing over Road (no Culvert) | | ☐ |
| No Defined Channel | | ☑ |

**ADDITIONAL NOTES**

Evidence of scour, pool (areas), Potential undercut banks, small woody debris, good overhead cover. No water at time of visit. Not permanent.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201b-1420** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 01 2022 |
| UTM Coordinates: | Wp. 44 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Organics |
| Subdominant | Fines |
| Subdominant | Gravel |
| Trace | Boulder |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.6 |
| Average Wetted Width (m) | 1.1 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.22 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Small Permanent |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Upstream at assumed crossing**

**Photo 2: Downstream at assumed crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Wetted, low flow channel. Permanently wetted, almost no flow, instream sphagnum mosses, film,sheen on surface, channel continues D/S subsurface sections but wetted sm. channel. Culvert likely needed for crossing.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201b-2350** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 01 2022 |
| UTM Coordinates: | Wp. 47 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | |
| Stage (season was very dry) | Dry |

**PHOTOS**

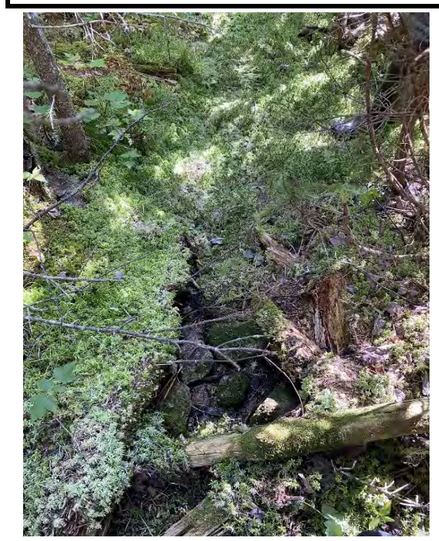

**Photo 1: Upstream at approximate crossing location.**

**Photo 2: Downstream at approximate crossing location.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☑ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Wp.46 No channel, no water, no flow, bog/wetland. Wp.47 No channel, wetted area, potential pooling areas, no flow, no water.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201b-3242** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | MB |
| Affiliation: | CBCL |
| Field Assessment Date: | 15-Sep-22 |
| UTM Coordinates: | WP44 |
| Datum: | UTM |
| **SUBSTRATE** | |
| Dominant | Fines |
| Subdominant | Gravel |
| Subdominant | Boulder |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.6 |
| Average Wetted Width (m) | 1.1 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.22 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent with Ephemeral Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Water barely flowing at site.**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Mature Forest |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Wetted, low flow channel. Lots of SWD and LWD. Good cover. Substrates: fines, small gravel, boulders. Permanently wetted, almost no flow. Instream sphag, mosses. Film/sheen on surface of water. Channel continues downstream into subsurface sections, but in small wetted channel.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201c-2834** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | NH |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 08 2022 |
| UTM Coordinates: | Wp. 1692-1694 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | |
| Stage (season was very dry) | Dry |

**PHOTOS**

**Photo 1: Culvert looking downstream of crossing location.**

**Photo 2: Upstream channel**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Not fish habitat, no channel, no water.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202b-576** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | NH |
| Affiliation: | CBCL Limted |
| Field Assessment Date: | Oct 24 2022 |
| UTM Coordinates: | Wp.2123-2129 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Gravel |
| Subdominant | |
| Subdominant | |
| Trace | Boulder |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1 |
| Average Wetted Width (m) | 1.0 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 1.5 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent with Ephemeral Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Approximate crossing location.**

**Photo 2: General habitat around WC BL-WC202b-576**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☑ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Ruled out as fish habitat due to slope and barriers. Steep habitat.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202b-2553** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | NH |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Oct 24 2022 |
| UTM Coordinates: | Wp.2141-2151 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.4 |
| Average Wetted Width (m) | 1.4 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 1.8 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent with Ephemeral Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☑ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☑ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☐ | |
| **ADDITIONAL NOTES** | | |
| Determined not to be fish habitat. | | |

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202e-2174** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Oct 21 2022 |
| UTM Coordinates: | Wp. 1841 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1 |
| Average Wetted Width (m) | 0.87 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.14 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent |
| Stage (season was very dry) | High |

**PHOTOS**

**Photo 1: Upstream at approximate crossing location.**

**Photo 2: Downstream at approximate crossing location.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☑ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Culvert located at crossing.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201c-3177** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | IB, LG |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 01 2022 |
| UTM Coordinates: | Wp. 374 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Dry |

**PHOTOS**

**Photo 1: Upstream at approximate crossing location.**

**Photo 2: Downstream at approximate crossing location.**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☑ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☑ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |

**ADDITIONAL NOTES**

Not fish habitat.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202e-2209** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Sept 09 2022 |
| UTM Coordinates: | Wp. 1666 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Dry |

**PHOTOS**

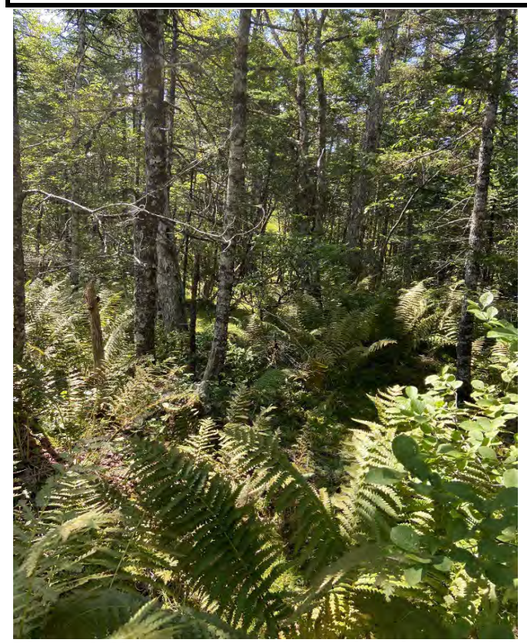

**Photo 1: Upstream, no channel, ephemeral drainage in wetland**

**Photo 2: Downstream, no channel, ephemeral drainage in wetland**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☑ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |

**ADDITIONAL NOTES**

U/S Yellow, no channel, ephemeral drainage in wetland corridor. D/S yellow no channel, ephemeral drainage in wetland corridor

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202e-2213** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Oct 21 2022 |
| UTM Coordinates: | Wp.1813 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 0.37 |
| Average Wetted Width (m) | 0.30 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.07 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | High |

**PHOTOS**

**Photo 1: Flow at crossing through culvert after heavy rainfall ev**

**Photo 2: Slight channelization downstream**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Flowing well through culvert at crossing after heavy rain event,- No defined channel. Wp.1813 start to channelize @D/S for appox 10-20m. Wp.1814 Underground flow heard, no channel seen.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202e-2980** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ, IB |
| Affiliation: | CBCL LIMITED |
| Field Assessment Date: | Oct 21 2022 |
| UTM Coordinates: | Wp.1834 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.1 |
| Average Wetted Width (m) | 0.9 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.47 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent |
| Stage (season was very dry) | High |

**PHOTOS**

**Photo 1: Upstream at crossing**

**Photo 2: Downstream of crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Intermittent channels, likely joins permanent watercourse D/S. Wp.1835
Pileated Woodpecker activity on tree.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC202g-144** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CJ |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Oct 26 2022 |
| UTM Coordinates: | Wp. 1848 (CJ) |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Dry |

**PHOTOS**

**Photo 1: Approximate crossing location**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Ephemeral - No channel

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse 31 (WC-31)** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | IB, LG |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Sept 09 2022 |
| UTM Coordinates: | Wp. 393 |
| Datum: | NAD 1893 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.8 |
| Average Wetted Width (m) | 0.5 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.09 |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: U/S Culvert showing low water level**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | Common Name | Scientific Name |
| 1 | | #N/A |
| 2 | | #N/A |
| 3 | | #N/A |
| 4 | | #N/A |
| 5 | | #N/A |
| 6 | | #N/A |
| 7 | | #N/A |
| 8 | | #N/A |
| 9 | | #N/A |
| 10 | | #N/A |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☑ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |

**ADDITIONAL NOTES**

Ephemeral bog on D/S side of road - no sign of channel; connection, very rocky, more rock barren than bog.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC-106g-2078** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT,MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 22 2022 |
| UTM Coordinates: | |
| Datum: | NAD1893 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | |
| Stage (season was very dry) | |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Sphagnum Moss | *#N/A* |
| 2 | Red Maple | *Acer rubrum* |
| 3 | Balsam Fir | *Abies balsamea* |
| 4 | Grasses | *#N/A* |
| 5 | Cinnamon Fern | *Osmunda cinnamomea* |
| 6 | White Pine | *#N/A* |
| 7 | Red Spruce | *Picea rubens* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Young Forest |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☑ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Wp.1355- pix @ 13:53 No observed channel, no WC signs, area likely WL within a clearcut. Sphagnum moss donminates ground cover, Rocky limited topsoil. Likely water movement undermoss.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC106h-2528** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 22 2022 |
| UTM Coordinates: | Wp.1335 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Fines |
| Subdominant | Cobble |
| Subdominant | Gravel |
| Trace | Boulder |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 0.9 |
| Average Wetted Width (m) | 0.45 |
| Average Bankful Depth (m) | 0.24 |
| Average Water Depth (m) | 0.07 |
| Average Pool Depth (m) | 0.19 |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing, completely covered culvert**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Balsam Fir | *Abies balsamea* |
| 2 | Red Maple | *Acer rubrum* |
| 3 | Common Cattail | *#N/A* |
| 4 | White Spruce | *Picea glauca* |
| 5 | Paper Birch | *Betula papyrifera* |
| 6 | White Pine | *#N/A* |
| 7 | Speckled Alder | *Alnus incana* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Young Forest |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Not fish habitat, 1335 WC loses channelization, spreads into many ponds & underground section. @ marked WC location = no channel. Xing considered to be at culvert

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC106h-2783** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT,MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 22 2022 |
| UTM Coordinates: | |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Fines |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.78 |
| Average Wetted Width (m) | 1.38 |
| Average Bankful Depth (m) | 0.24 |
| Average Water Depth (m) | 0.23 |
| Average Pool Depth (m) | 0.18 |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent with Ephemeral Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Red Spruce | *Picea rubens* |
| 2 | Eastern Hemlock | *Tsuga canadensis* |
| 3 | Speckled Alder | *Alnus incana* |
| 4 | Paper Birch | *Betula papyrifera* |
| 5 | White Pine | *#N/A* |
| 6 | Cinnamon Fern | *Osmunda cinnamomea* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | Young Forest |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | | ☐ |
| Flows into Fish Habitat Downstream | | ☐ |
| Underground Sections or Groundwater | | ☑ |
| Surface Flow | | ☑ |
| Wetland Corridor (Flow Between Wetlands) | | ☐ |
| Barrier | | ☐ |
| Artificial Channelization | | ☐ |
| Culvert or Bridge | | ☑ |
| Water Flowing over Road (no Culvert) | | ☐ |
| No Defined Channel | | ☑ |
| **ADDITIONAL NOTES** | | |
| Culvert was replaced w/o environmental input, Wp. 1343-WC loses channelization in WL, dry sections, NOT fish habitat | | |

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201a-1442 (WC-13)** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CM, LG |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 9 2022 |
| UTM Coordinates: | |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Balsam Fir | *Abies balsamea* |
| 2 | Yellow Birch | *Betula alleghaniensis* |
| 3 | Red Maple | *Acer rubrum* |
| 4 | Sphagnum | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Mature Forest |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

WC feature not observed, in WL, no watercourse flowing through, WL drains into Bear Lake. Water above and below ground. Not a fish passage/habitat.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC-201b-3193** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CM,LG |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 09 2022 |
| UTM Coordinates: | Wp. 519 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Fines |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.9 |
| Average Wetted Width (m) | 0.83 |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | 0.07 |
| Average Pool Depth (m) | 0.19 |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral with Intermittent Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Upstream at Crossing, no defined WC.**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Cinnamon Fern | *Osmunda cinnamomea* |
| 2 | Balsam Fir | *Abies balsamea* |
| 3 | Red Maple | *Acer rubrum* |
| 4 | Shagnum | *#N/A* |
| 5 | Yellow Birch | *Betula alleghaniensis* |
| 6 | Goldenrod Sp. | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | Mature Forest | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☐ | |
| **ADDITIONAL NOTES** | | |
| Only one measurement taken, WC is outside of footprint. Not fish habitat. | | |

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201c-958** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 25 2022 |
| UTM Coordinates: | |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Cobble |
| Subdominant | Gravel |
| Subdominant | Fines |
| Trace | Boulder |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1.15 |
| Average Wetted Width (m) | 1.03 |
| Average Bankful Depth (m) | 0.24 |
| Average Water Depth (m) | 0.24 |
| Average Pool Depth (m) | 0.26 |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Upstream at Crossing with culvert**

**Photo 2: Downstream at Crossing, no channel, no sign of WC**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Cinnamon Fern | *Osmunda cinnamomea* |
| 2 | Balsam Fir | *Abies balsamea* |
| 3 | Hay-scented Fern | *#N/A* |
| 4 | Yellow Birch | *Betula alleghaniensis* |
| 5 | Paper birch | *Betula papyrifera* |
| 6 | Sphagnum | *#N/A* |
| 7 | Red Spruce | *Picea rubens* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Pole-Sapling |

| IMPORTANT FEATURES OBSERVED | |
|---|---|
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

Not fish habitat, channelization ends. Watercourse moves underground (d/s). Wetland, no u/s channel.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201c-1062** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 25 2022 |
| UTM Coordinates: | Wp. 1698 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | |
| Stage (season was very dry) | |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Sphagnum moss | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | |

| IMPORTANT FEATURES OBSERVED | |
|---|---|
| Vegetated Across | ☑ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☐ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☐ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☑ |

**ADDITIONAL NOTES**

No channel in U/S area wetland, pooled area, D/S of culvert, no channel. Becomes sphag moss, bog area. Not fish habitat.

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201c-2236 (WC-27)** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 25 2022 |
| UTM Coordinates: | Wp. 1500 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | Bedrock |
| Subdominant | Gravel |
| Subdominant | Fines |
| Trace | Cobble |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | 1 |
| Average Wetted Width (m) | 0.8 |
| Average Bankful Depth (m) | 0.27 |
| Average Water Depth (m) | 0.14 |
| Average Pool Depth (m) | 0.34 |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Intermittent with Ephemeral Characteristics |
| Stage (season was very dry) | Mid |

**PHOTOS**

**Photo 1: Culvert upstream at Crossing**

**Photo 2: Upstream view of WC**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Balsam Fir | *Abies balsamea* |
| 2 | Red Spruce | *Picea rubens* |
| 3 | Red Maple | *Acer rubrum* |
| 4 | Sphagnum | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |

| RIPARIAN INFORMATION | |
|---|---|
| Vegetation Stage | Pole-Sapling |
| **IMPORTANT FEATURES OBSERVED** | |
| Vegetated Across | ☐ |
| Flows into Fish Habitat Downstream | ☐ |
| Underground Sections or Groundwater | ☑ |
| Surface Flow | ☐ |
| Wetland Corridor (Flow Between Wetlands) | ☐ |
| Barrier | ☐ |
| Artificial Channelization | ☐ |
| Culvert or Bridge | ☑ |
| Water Flowing over Road (no Culvert) | ☐ |
| No Defined Channel | ☐ |

**ADDITIONAL NOTES**

Water Sample #8, @ 13:11. WC becomes underground ephemeral 30m from crossing. Not fish habitat

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC201C-2840** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 25 2022 |
| UTM Coordinates: | Wp. 1504 |
| Datum: | NAD 1893 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | Ephemeral |
| Stage (season was very dry) | Low |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | Speckled Alder | *Alnus incana* |
| 2 | Balsam Fir | *Abies balsamea* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☑ | |
| Surface Flow | ☐ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |
| **ADDITIONAL NOTES** | | |
| Ditch runs paralell to road, mostly sphagnum and wet leaves, very small channelized area D/S before transitions to underground emph. Road drainage - Not fish habitat | | |

# Watercourse Fact Sheet: Not Fish Habitat

| WATERCOURSE INFORMATION | |
|---|---|
| **Watercourse ID:** | **Watercourse BL-WC-201c-2844** |
| General Site Location: | Bear Lake |
| Watercourse Assessor(s): | CT, MT |
| Affiliation: | CBCL Limited |
| Field Assessment Date: | Nov 25 2022 |
| UTM Coordinates: | Wp.1487 |
| Datum: | NAD 1983 |
| **SUBSTRATE** | |
| Dominant | |
| Subdominant | |
| Subdominant | |
| Trace | |
| Trace | |
| Trace | |
| **CHANNEL MEASUREMENTS** | |
| Average Channel Width (m) | |
| Average Wetted Width (m) | |
| Average Bankful Depth (m) | |
| Average Water Depth (m) | |
| Average Pool Depth (m) | |
| **WATERCOURSE MORPHOLOGY** | |
| Watercourse Type | |
| Stage (season was very dry) | |

**PHOTOS**

**Photo 1: Upstream at Crossing**

**Photo 2: Downstream at Crossing**

| RIPARIAN VEGETATION SPECIES | | |
|---|---|---|
| # | **Common Name** | **Scientific Name** |
| 1 | | *#N/A* |
| 2 | | *#N/A* |
| 3 | | *#N/A* |
| 4 | | *#N/A* |
| 5 | | *#N/A* |
| 6 | | *#N/A* |
| 7 | | *#N/A* |
| 8 | | *#N/A* |
| 9 | | *#N/A* |
| 10 | | *#N/A* |
| **RIPARIAN INFORMATION** | | |
| Vegetation Stage | | |
| **IMPORTANT FEATURES OBSERVED** | | |
| Vegetated Across | ☐ | |
| Flows into Fish Habitat Downstream | ☐ | |
| Underground Sections or Groundwater | ☐ | |
| Surface Flow | ☑ | |
| Wetland Corridor (Flow Between Wetlands) | ☐ | |
| Barrier | ☐ | |
| Artificial Channelization | ☐ | |
| Culvert or Bridge | ☐ | |
| Water Flowing over Road (no Culvert) | ☐ | |
| No Defined Channel | ☑ | |
| **ADDITIONAL NOTES** | | |
| Woods drainage, mossy rocks, wet leaves, seasonal drainage. Not fish habitat | | |