

APPENDIX 7.

COLLECTOR LINES AND CONSTRUCTION POWER LINE WATERCOURSE CROSSING ASSESSMENT BOOKLETS

Site 1

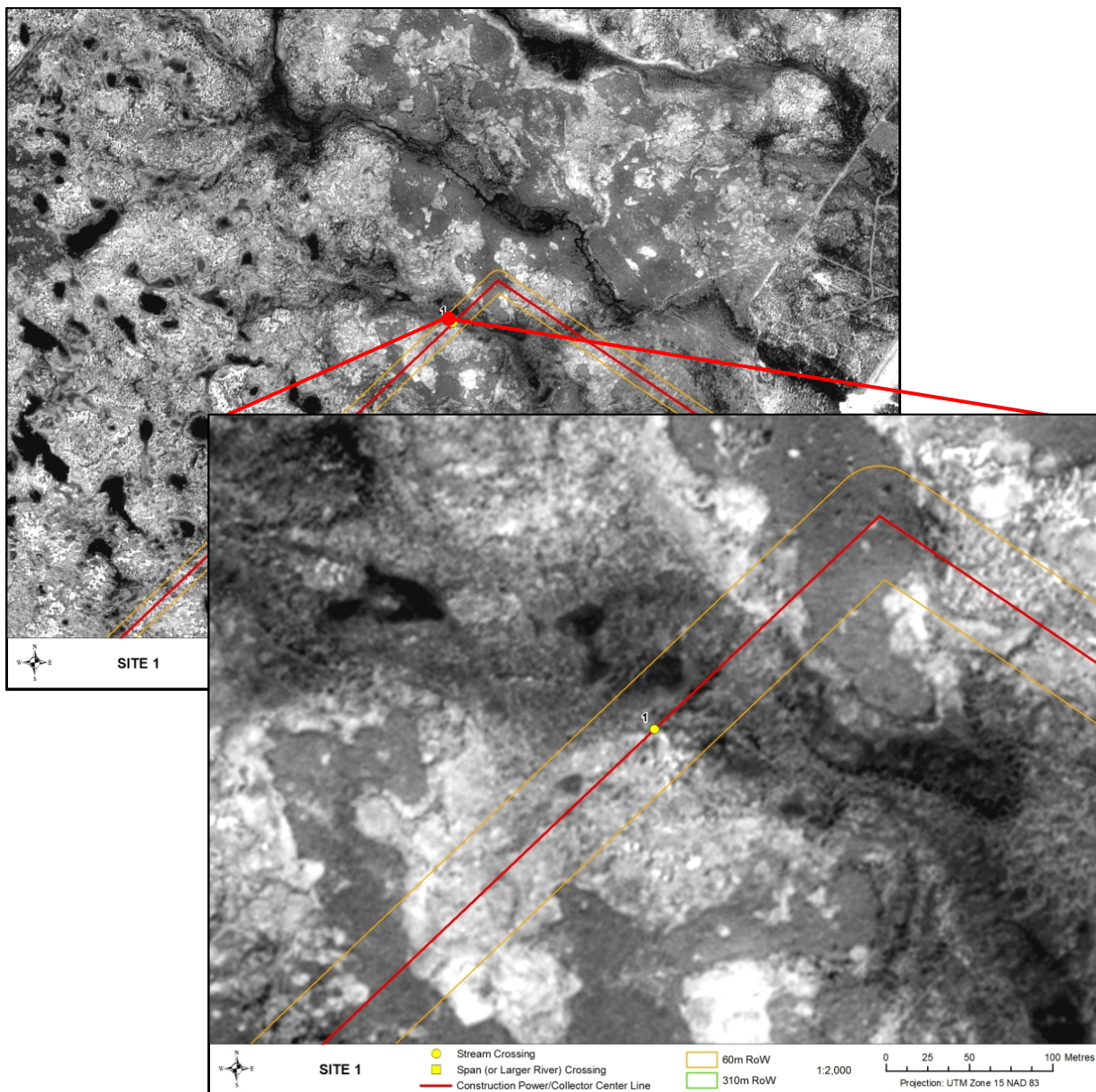
Unnamed Tributary of Nelson River

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 815112
Northing: 6293739
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: IW
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology:
U/S Drainage: 0.44 km²
Distance to Receiving Water: Nelson River
2.51 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	90 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	111 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

-

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: N/A

Comments:

The RoW crosses the headwaters of this unnamed tributary of the Nelson River. It likely provides habitat for forage fish, with low overwintering potential. At the crossing it consists of bog habitat, with no defined channel and a large soft floodplain.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 2

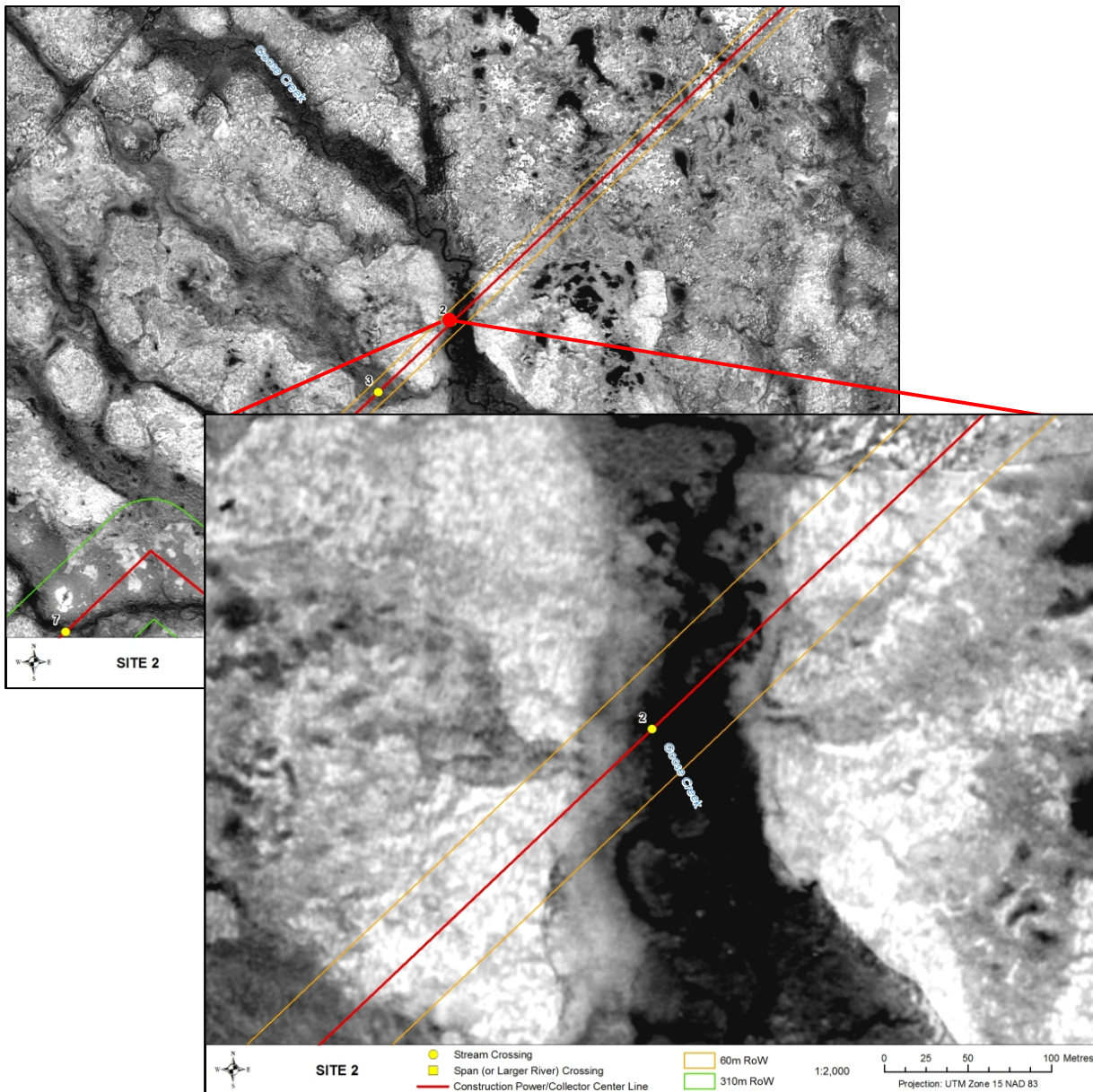
Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 813821
Northing: 6292281
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: IM
Confinement: UN
Stage: Moderate
Flow Regime: Perennial
Morphology: LC
U/S Drainage: 111.07 km²
Distance to Receiving Water: Nelson River 5.18 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	13
Channel Width (m)	13

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	31
Left Bank	0

Riparian Distance (m)

Right Bank	48
Left Bank	35

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present	Yes
DFO Manitoba Agricultural Watershed Classification:	-
Fish Habitat Classification:	Important

Fish Presence: Kroeker and MacDonell (2006) reported burbot, fathead minnow, sculpins (mottled and slimy), pearl dace, longnose dace, white sucker, and longnose sucker. Swanson et al. (1991) reported burbot, brook trout, brook stickleback, slimy sculpin, longnose dace, finescale dace, pearl dace, white sucker, and longnose sucker. Swanson (1991) also found the stream to provide nursery habitat for brook trout. All sampling was conducted in the lower reaches of the creek.

Comments:

Goose Creek is known to provide important fish habitat for both indicator and forage fish in the lower reaches of the creek, including rearing and feeding. It likely provides only low overwintering potential. At the crossing it consists of bog habitat, and it is surrounded by a soft floodplain.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments: Soft floodplain and important fish habitat result in a moderate sensitivity rating.

Site 3

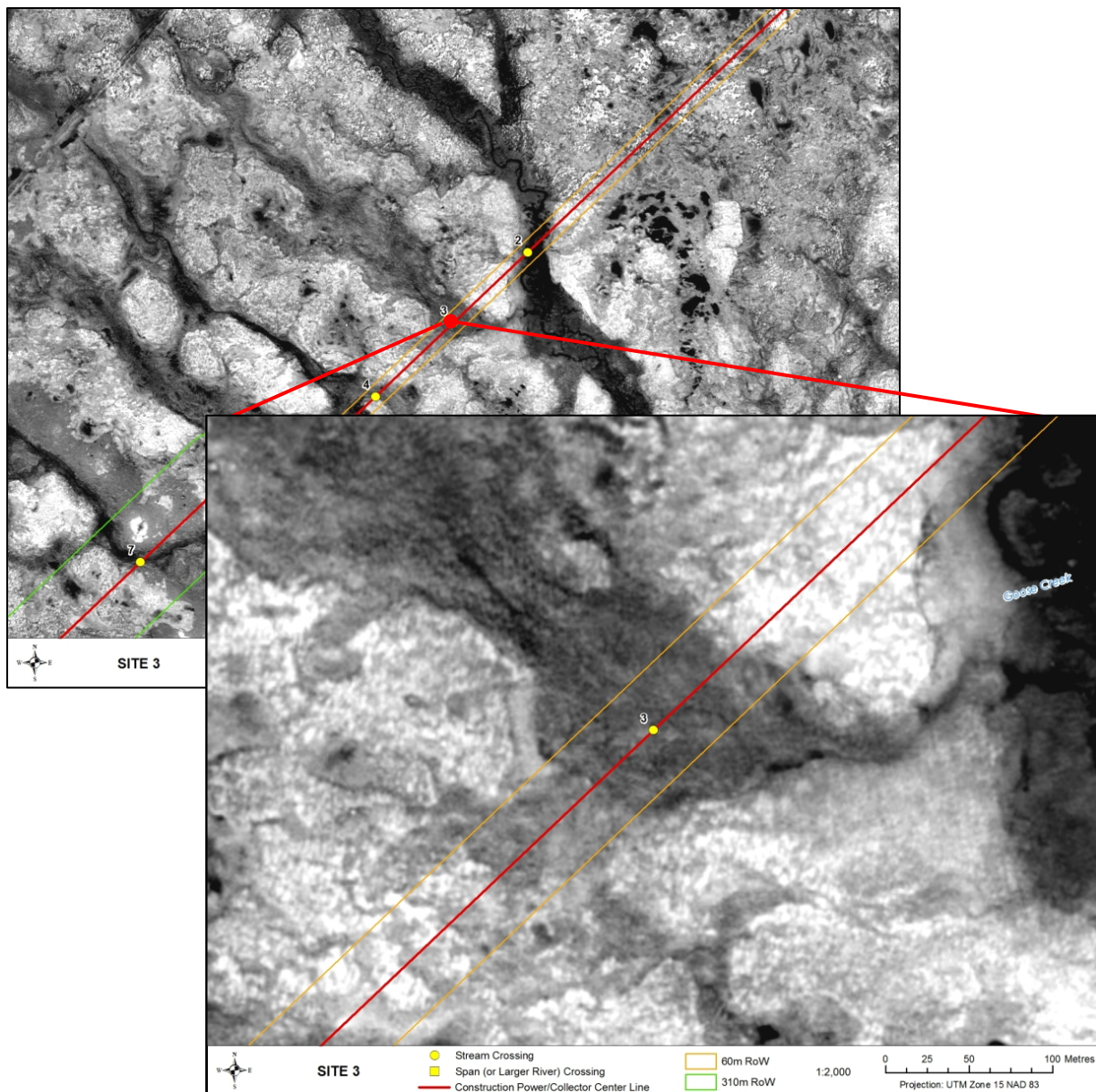
Unnamed tributary of Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 813618
Northing: 6292052
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: IR
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 1.46 km²
Distance to Receiving Water: Goose Creek 0.25 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	107 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	137 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

-

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

The unnamed tributary of Goose Creek is a bog drainage that provides marginal fish habitat. Based on low flow conditions and a poorly defined channel fish use is expected to be largely limited to forage fish species. Any large bodied fish use is expected to be restricted to high water conditions.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain and important fish habitat result in a moderate sensitivity rating.

Site 4

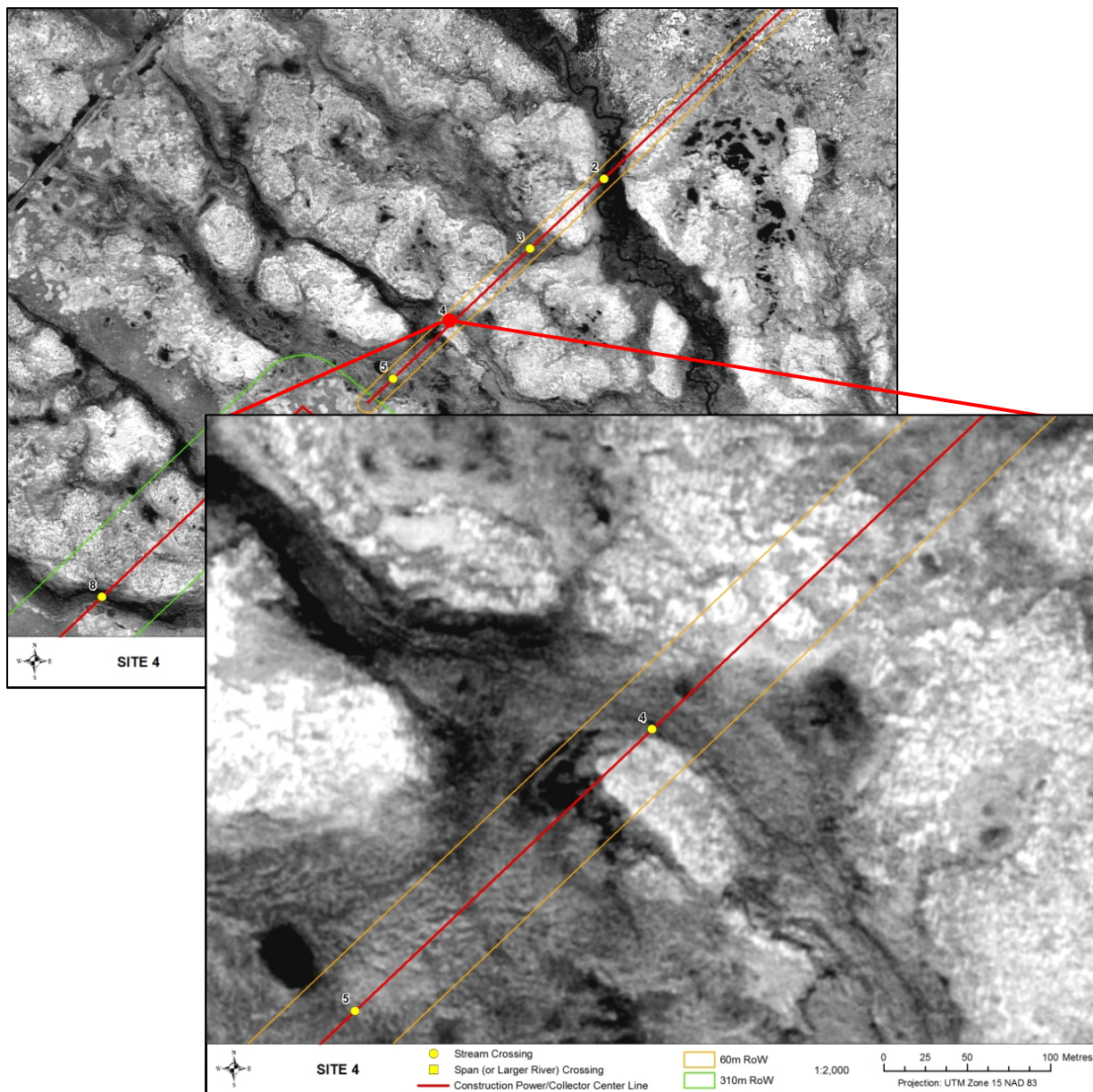
Unnamed tributary of Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 813405
Northing: 6291810
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 2.05 km²
Distance to Receiving Water: Goose Creek 0.9 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	3
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	55 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	93 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Goose Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with a small channel surrounded by a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 5

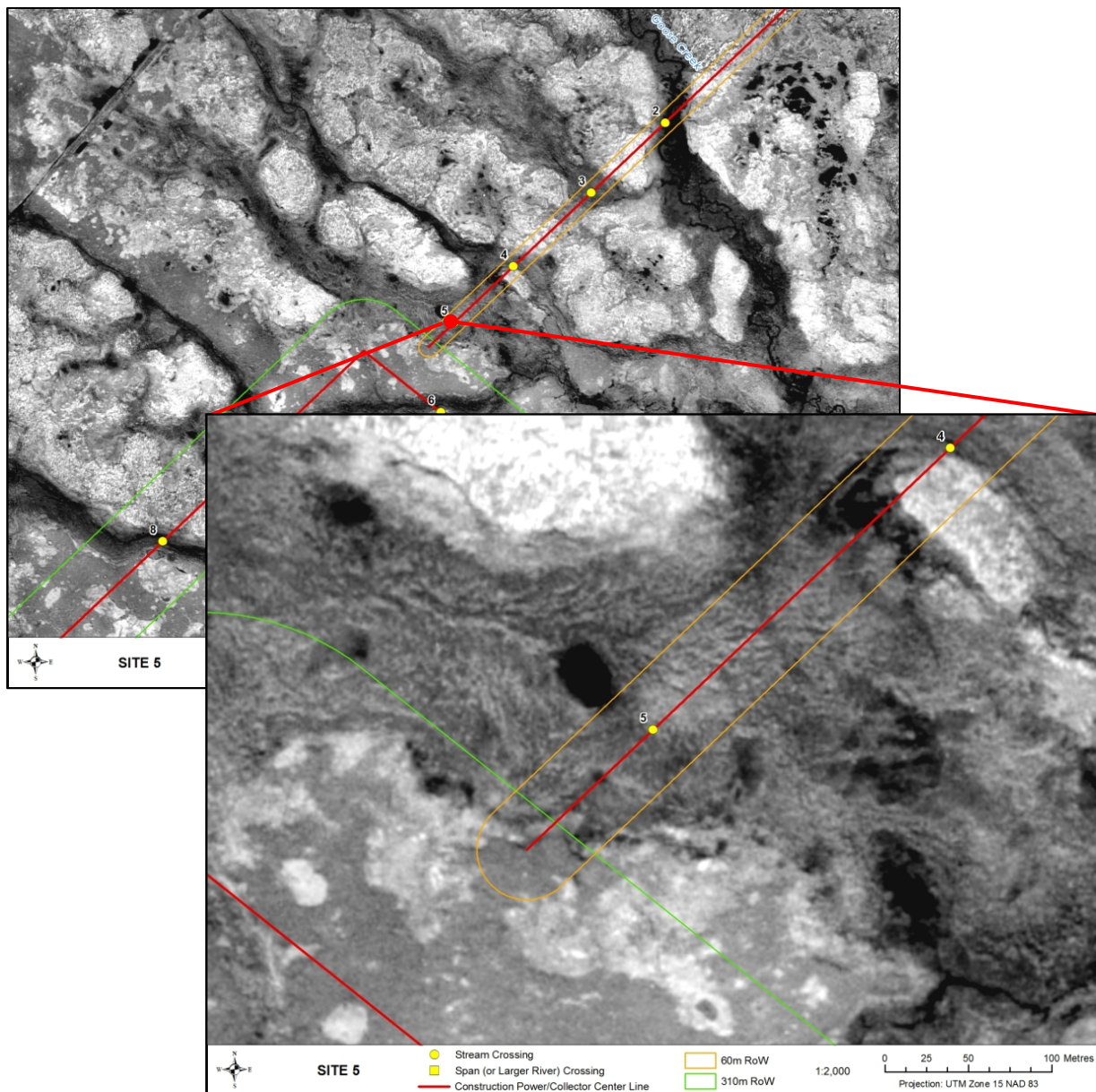
Unnamed tributary of Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 813242
Northing: 6291626
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 0.22 km²
Distance to Receiving Water: Goose Creek 1.19 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	246 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	296 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Goose Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 6

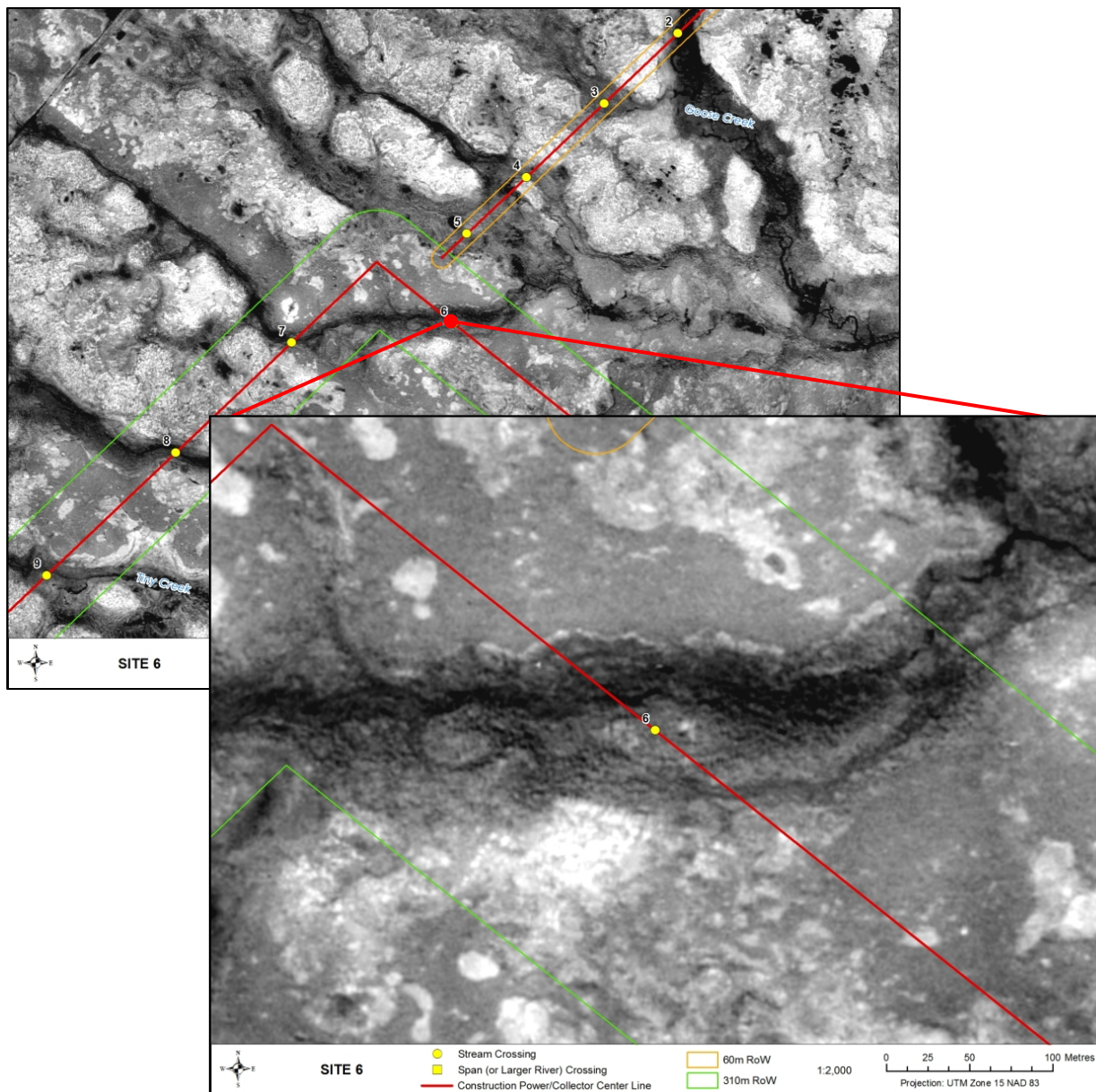
Unnamed tributary of Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 813225
Northing: 6291355
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 4.76 km²
Distance to Receiving Water: Goose Creek 1.2 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	88 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	108 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	-
Shrubs	-
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Goose Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 7

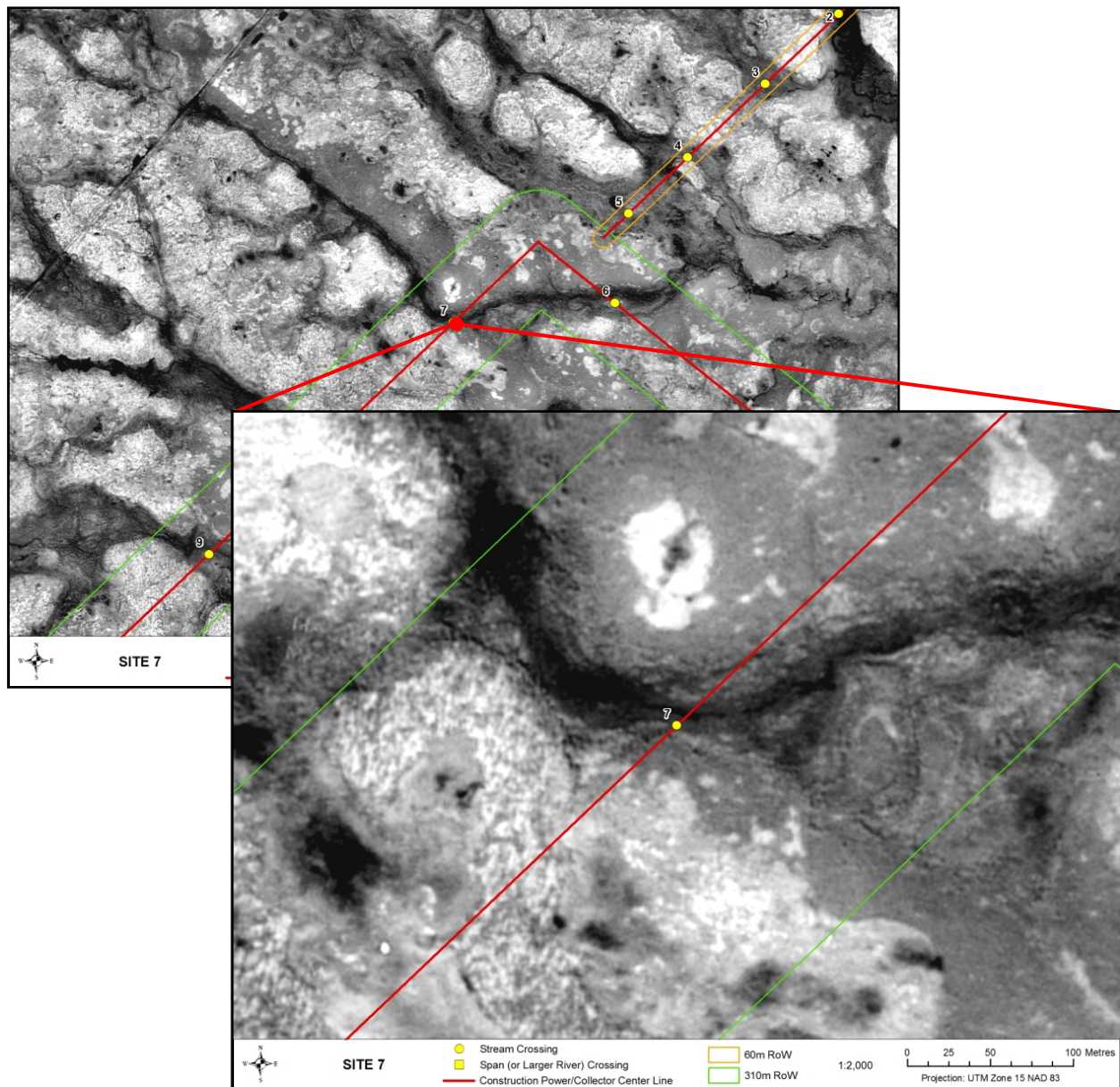
Unnamed tributary of Goose Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 812745
Northing: 6291254
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 4.76 km²
Distance to Receiving Water: Goose Creek 1.7km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	18 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	62 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	-
Shrubs	-
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present	Yes
DFO Manitoba Agricultural Watershed Classification:	-
Fish Habitat Classification:	Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Goose Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 8

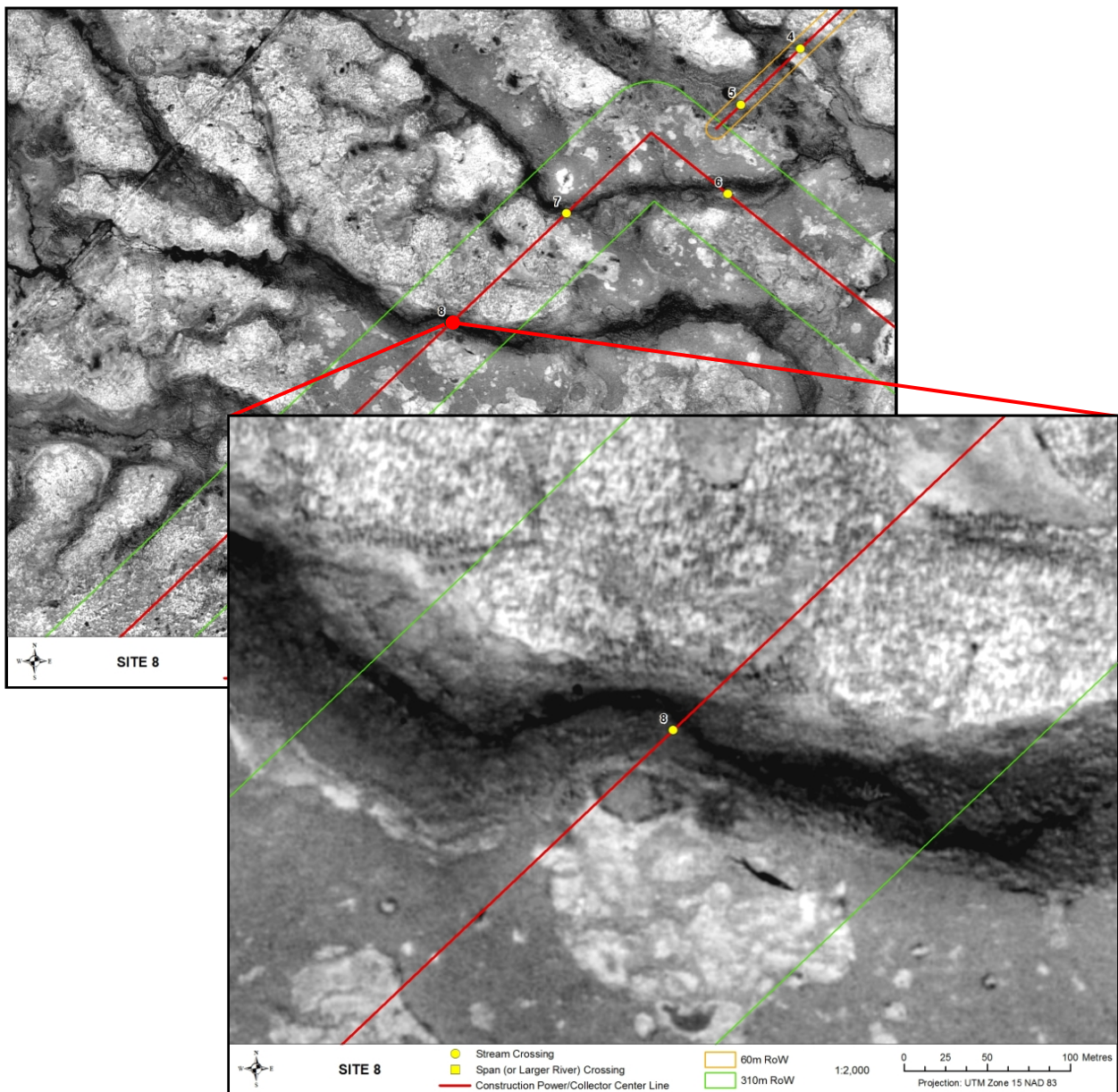
Unnamed tributary of Tiny Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 812427
Northing: 6290895
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 8.13 km²
Distance to Receiving Water: Tiny Creek 2.04 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	39 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	65 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	-
Shrubs	-
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present	Yes
DFO Manitoba Agricultural Watershed Classification:	-
Fish Habitat Classification:	Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Tiny Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 9

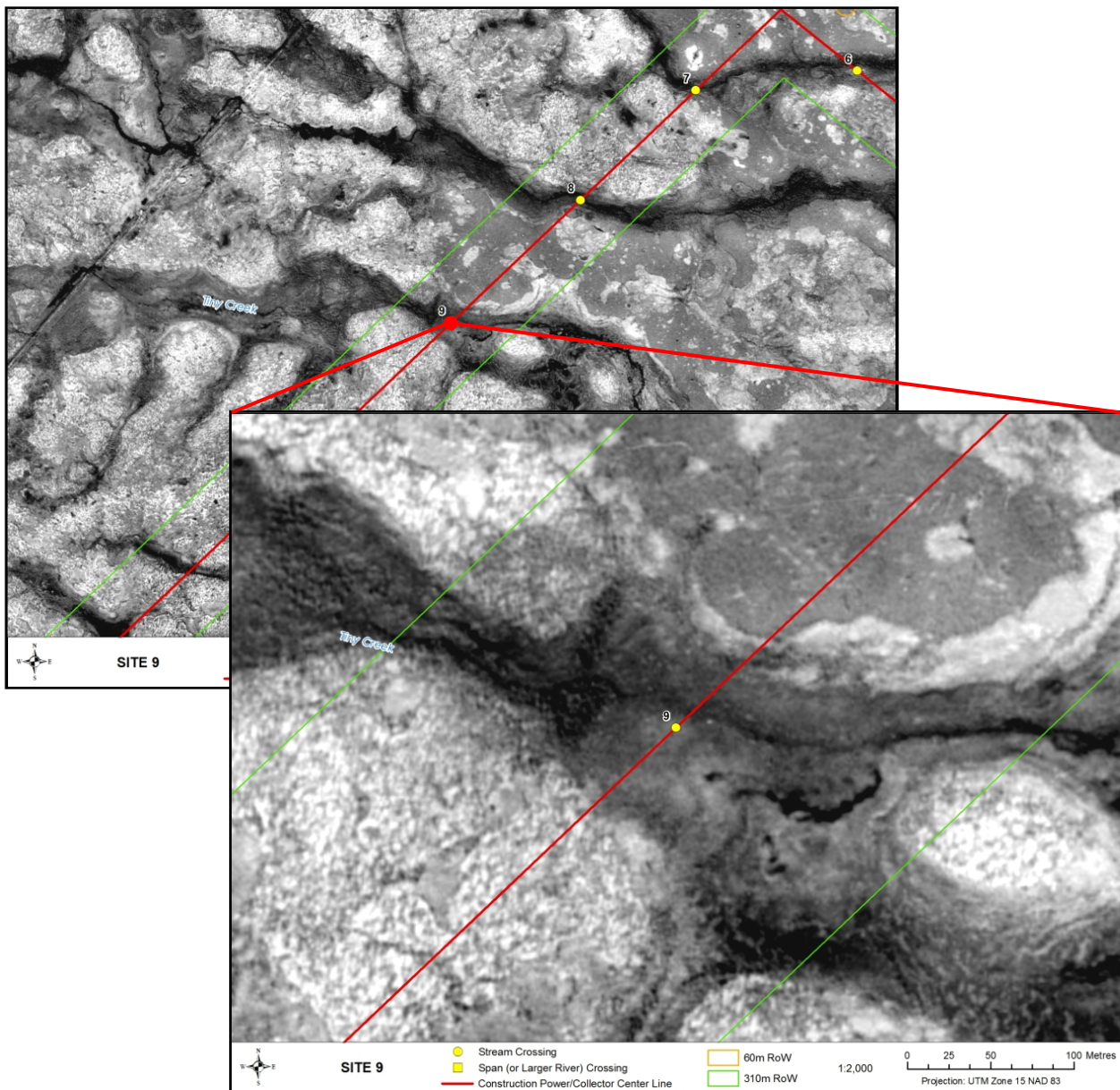
Tiny Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 812072
Northing: 6290494
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Perennial
Morphology: -
U/S Drainage: 5.52 km²
Distance to Receiving Water: Nelson River 4.24 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	11
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	35
Left Bank	78

Riparian Distance (m)

Right Bank	56
Left Bank	93

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: Kroeker and MacDonell (2006) reported brook trout, brook stickleback, sculpins (mottled and slimy), and longnose dace. Johnson et al (2005) reported brook stickleback, finescale dace, and pearl dace. Swanson et al. (1991) reported brook stickleback and slimy sculpin. Kroeker and MacDonell (2006) found the stream to provide nursery habitat for brook trout. All sampling was conducted in the lower reaches of the creek.

Comments:

Tiny Creek is known to provide important fish habitat for both indicator and forage fish in the lower reaches of the creek. In the reaches where the RoW crosses the channel it likely provides habitat for forage fish, as well as habitat for indicator fish at wetter times of the year. Tiny Creek likely provides only low overwintering potential. At the crossing the creek consists of bog habitat, surrounded by a soft floodplain.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments: The soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 10

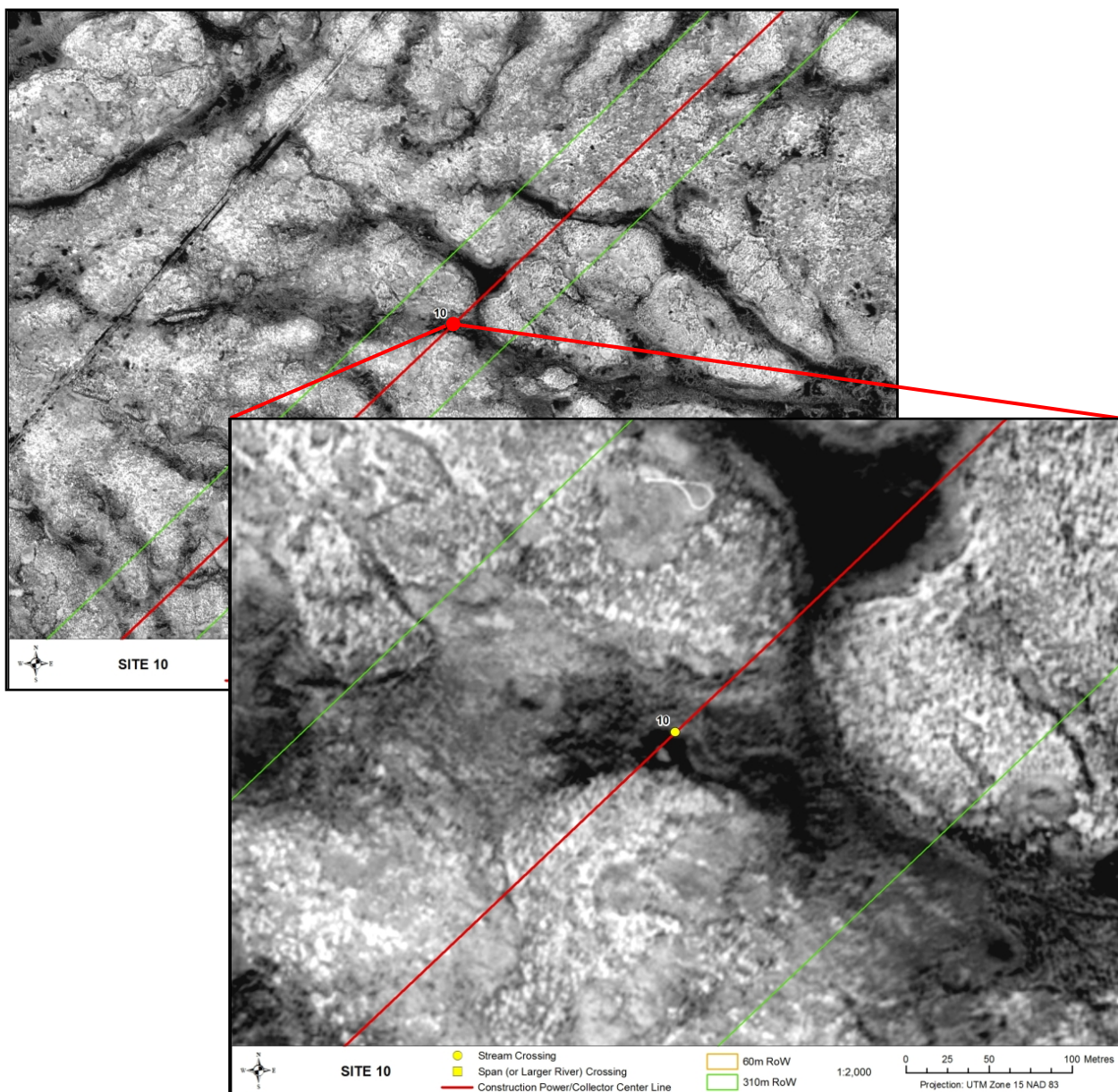
Unnamed tributary of Nelson River

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 811038
Northing: 6289326
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 0.32 km²
Distance to Receiving Water: Nelson River 4.9 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	63 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	90 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Nelson River likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 11

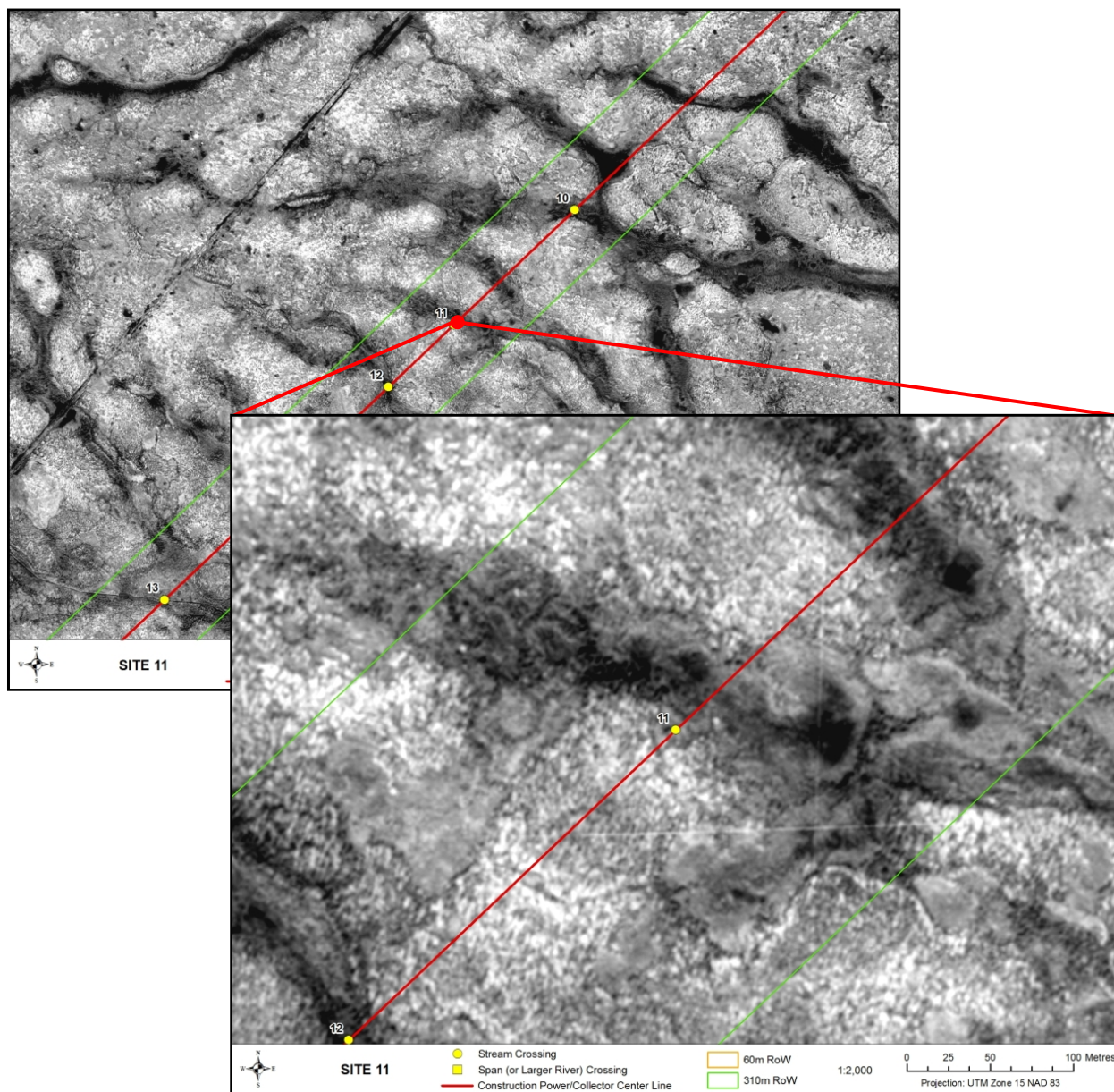
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 810705
Northing: 6288950
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 0.10 km²
Distance to Receiving Water: Swift Creek 3.66 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	45 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	83 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	80
Run	20
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 12

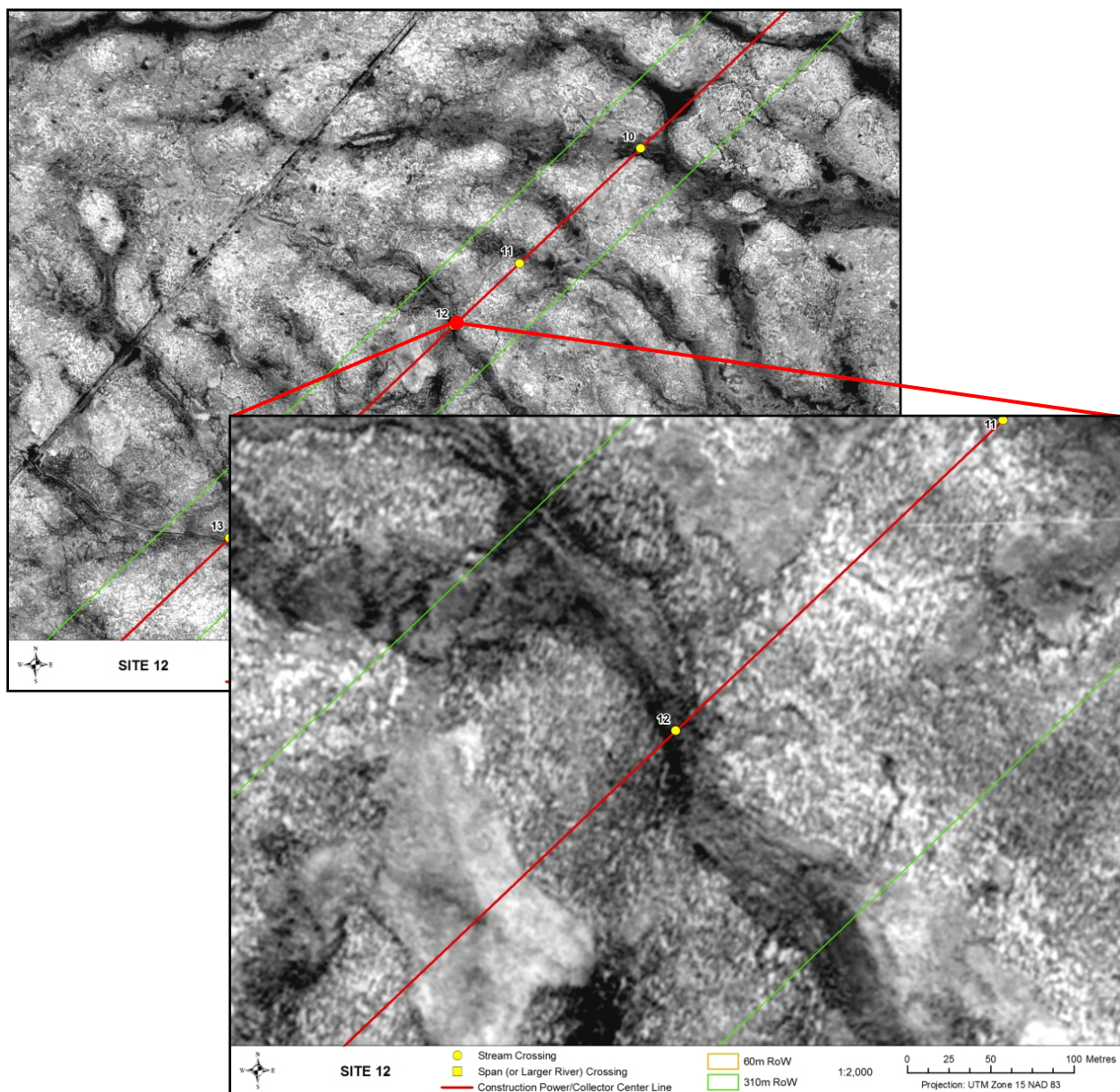
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 810526
Northing: 6288747
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 0.36 km²
Distance to Receiving Water: Swift Creek 3.57 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	23 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	37 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	20
Run	80
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. Overwintering potential is low. The crossing site consists of bog habitat, with no defined channel and a soft floodplain. The small upstream drainage area indicates flows are likely low.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 13

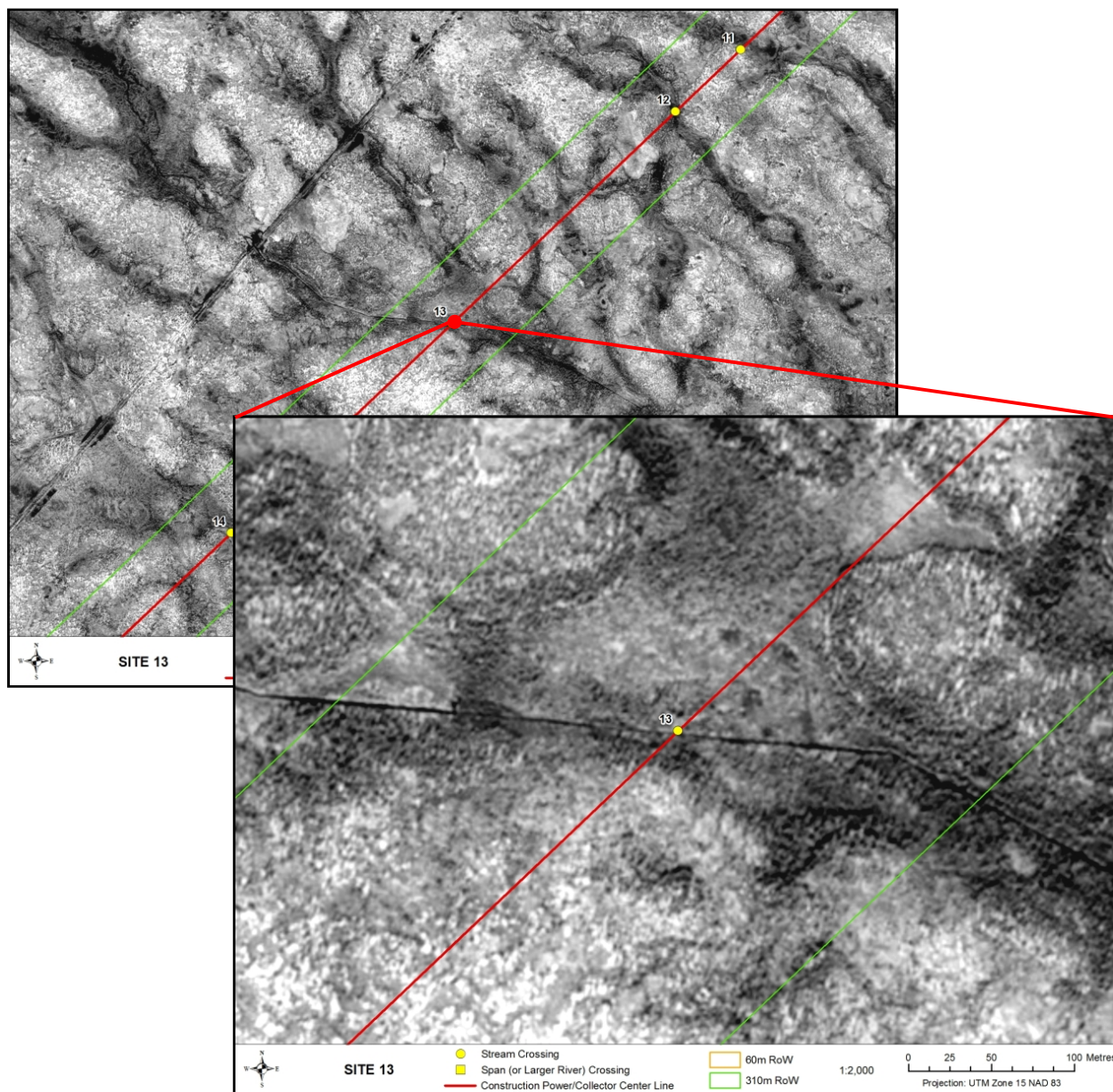
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 809910
Northing: 6288052
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 6.29 km²
Distance to Receiving Water: Swift Creek 3.11 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	2
Channel Width (m)	2

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	208
Left Bank	14

Riparian Distance (m)

Right Bank	225
Left Bank	27

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	100
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing the tributary is channelized and lies within a bog habitat. Two channels meet the tributary on the right bank creating a large and soft floodplain. Habitat at the crossing provides low overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 14

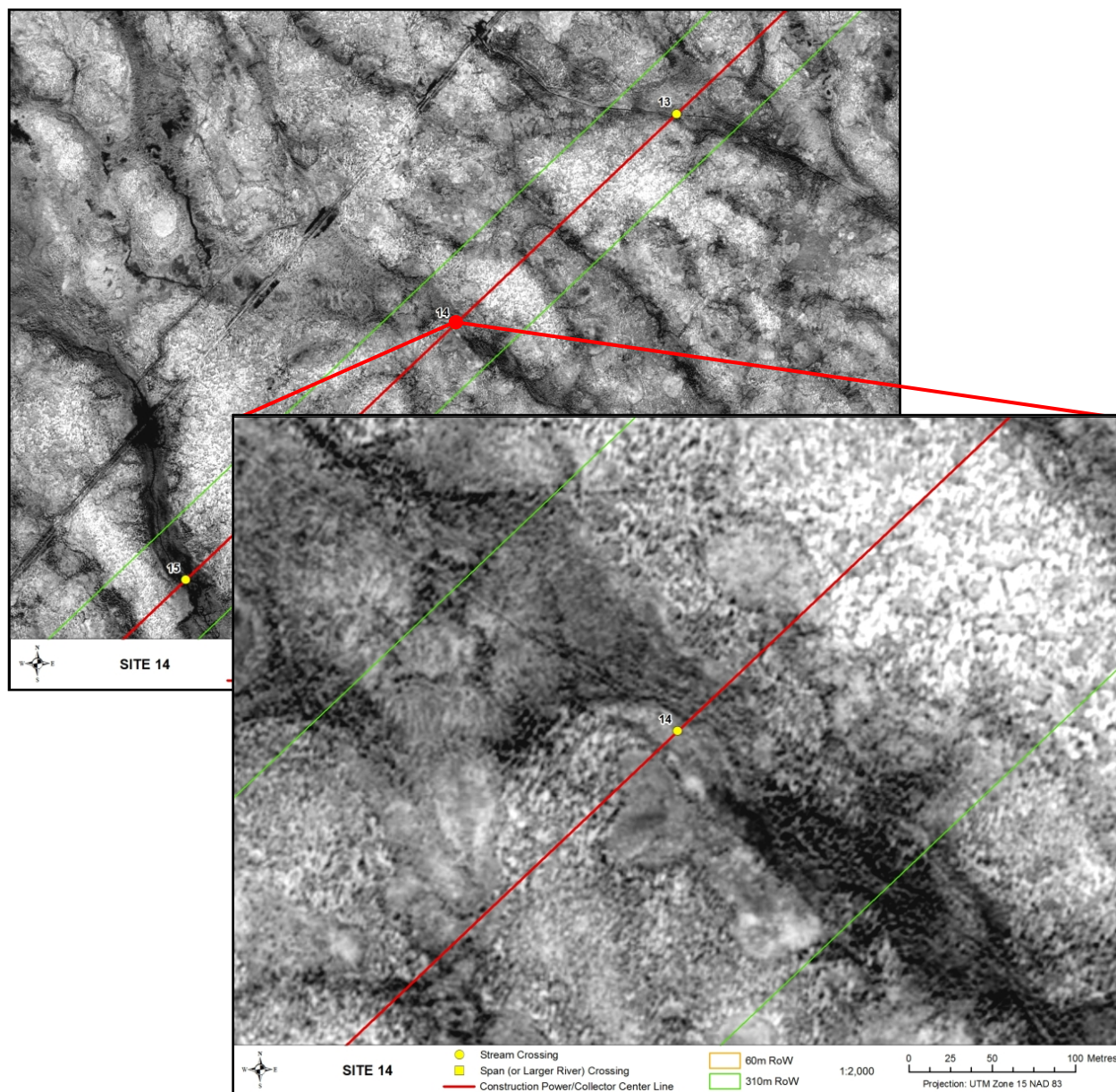
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 809300
Northing: 6287363
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 2.13 km²
Distance to Receiving Water: Swift Creek 3.15 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	32 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	170 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential. An abandoned railway crossing exists 440m upstream of the RoW

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 15

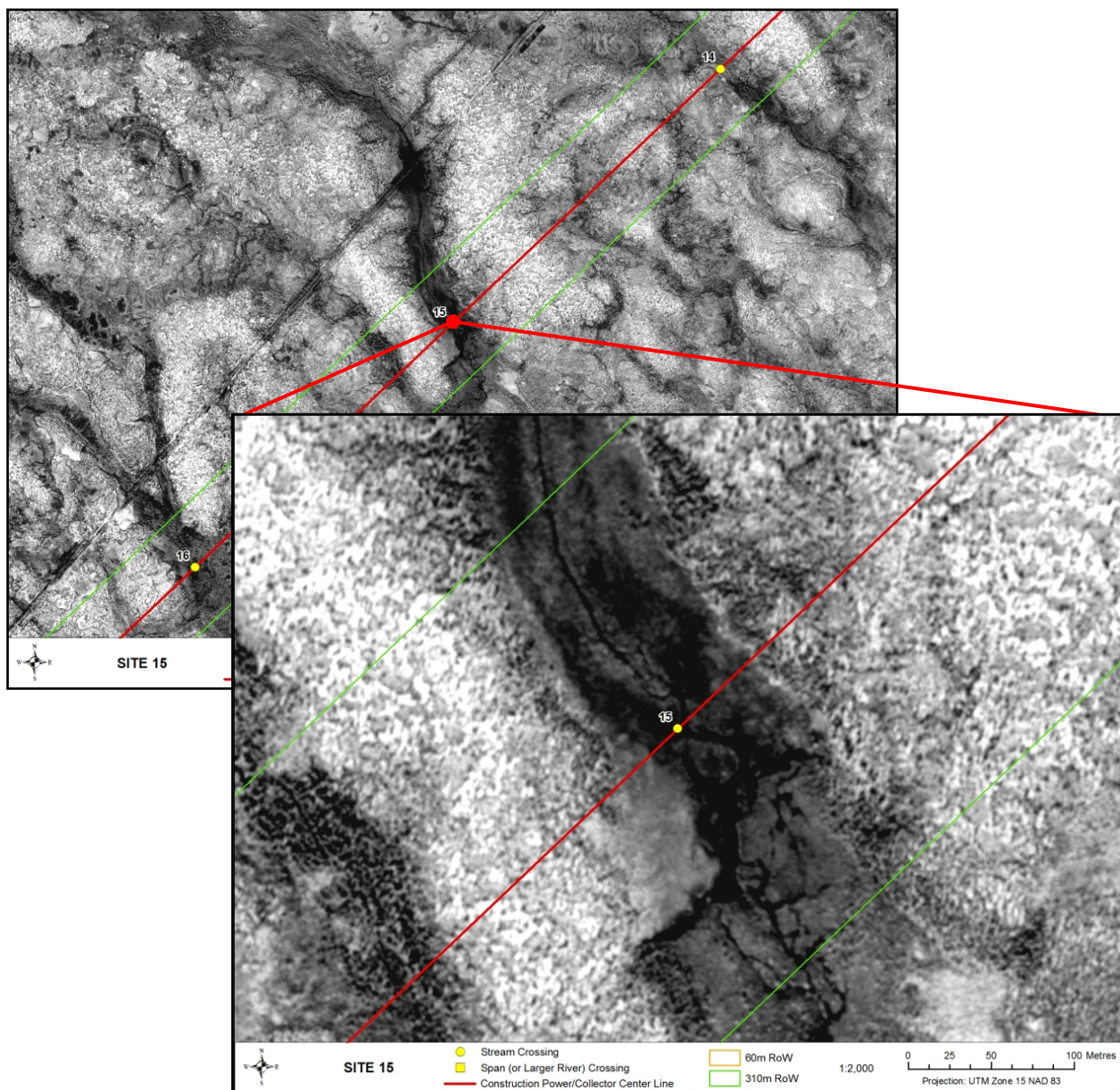
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 808560
Northing: 6286527
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 18.92 km²
Distance to Receiving Water: Swift Creek 3.79 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	5
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	46
Left Bank	52

Riparian Distance (m)

Right Bank	79
Left Bank	80

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	30
Run	70
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat with a soft floodplain. It likely provides low overwintering potential. Downstream areas have been impacted by beaver dams. An abandoned railway crossing exists 327 m upstream of the RoW

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 16

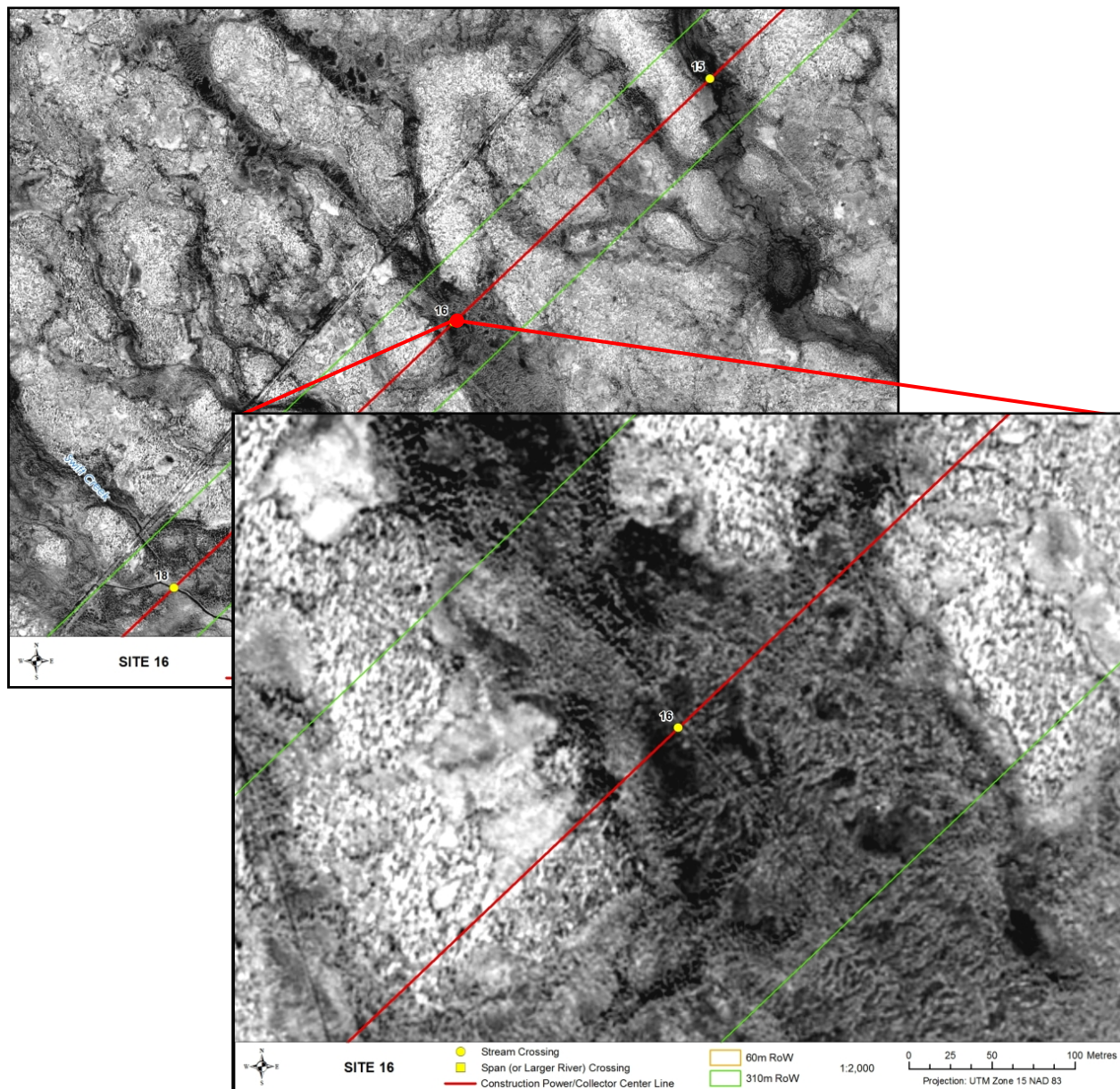
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 807854
Northing: 6285729
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 1.11 km²
Distance to Receiving Water: Swift Creek 3.02 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	211 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	247 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential. An abandoned railway crossing exists 131m upstream of the RoW

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 17

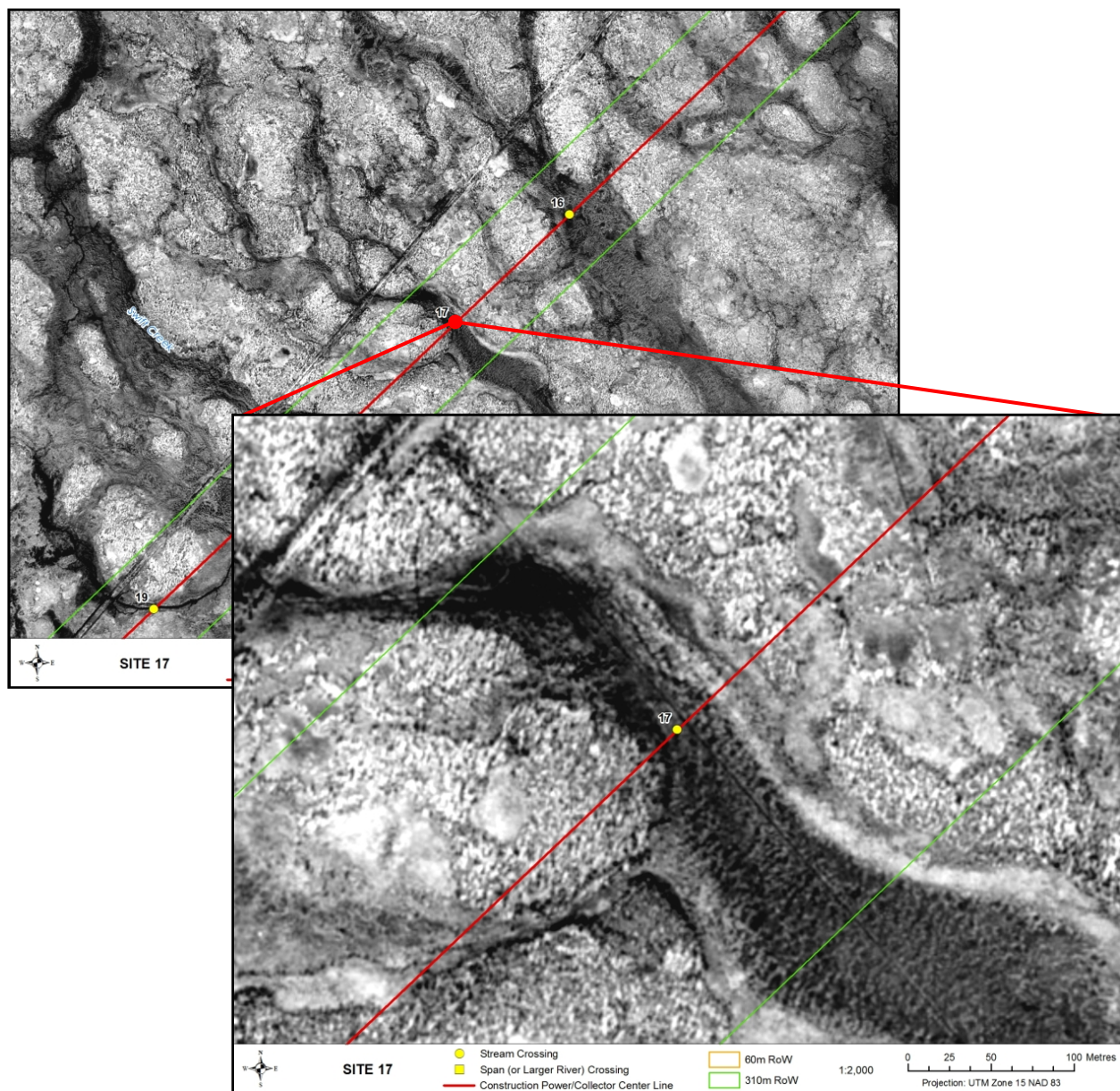
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 807537
Northing: 6285370
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: SI
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 0.72 km²
Distance to Receiving Water: Swift Creek 3.25 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	46 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	105 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential. An abandoned railway crossing exists 111m upstream of the RoW

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 18

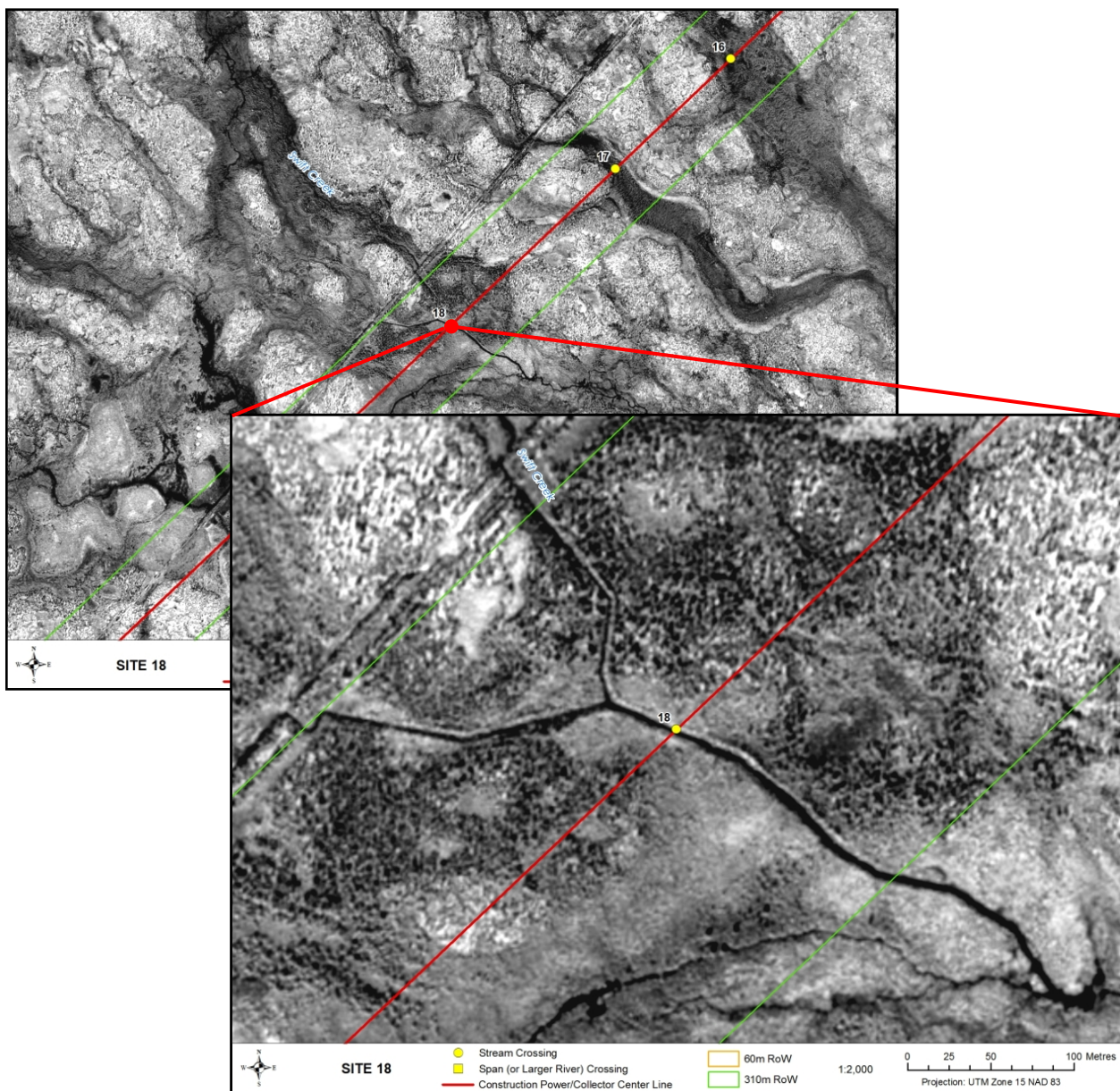
Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 807085
Northing: 6284860
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: IW
Confinement: UN
Stage: Moderate
Flow Regime: Perennial
Morphology: LC
U/S Drainage: 3.21 km²
Distance to Receiving Water: Nelson River 10.9 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	6
Channel Width (m)	6

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	34
Left Bank	32

Riparian Distance (m)

Right Bank	216
Left Bank	339

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	100
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: Kroeker and MacDonell (2006) reported burbot, brook stickleback, sculpins (mottled and slimy), longnose dace, pearl dace, white sucker, and longnose sucker. Johnson et al (2005) reported burbot, brook stickleback, slimy sculpin, longnose dace, pearl dace, white sucker, longnose sucker, johnny darter. Swanson et al. (1991) reported burbot, brook trout, brook stickleback, slimy sculpin, longnose dace, finescale dace, pearl dace, white sucker, and longnose sucker. Swanson (1991) found the stream to provide nursery habitat for brook trout. All sampling was conducted in the lower reaches of the creek.

Comments:

Swift Creek is known to provide important fish habitat for both indicator and forage fish in the lower reaches of the creek. In the reaches where the RoW crosses the channel, the creek likely provides habitat for forage fish, as well as indicator fish during times of high-water. Swift Creek likely provides only low overwintering potential. Habitat at the crossing consists of bog habitat, with a well-defined channel and soft floodplain. An abandoned railway crossing exists 20m upstream of the RoW

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments: The soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 19

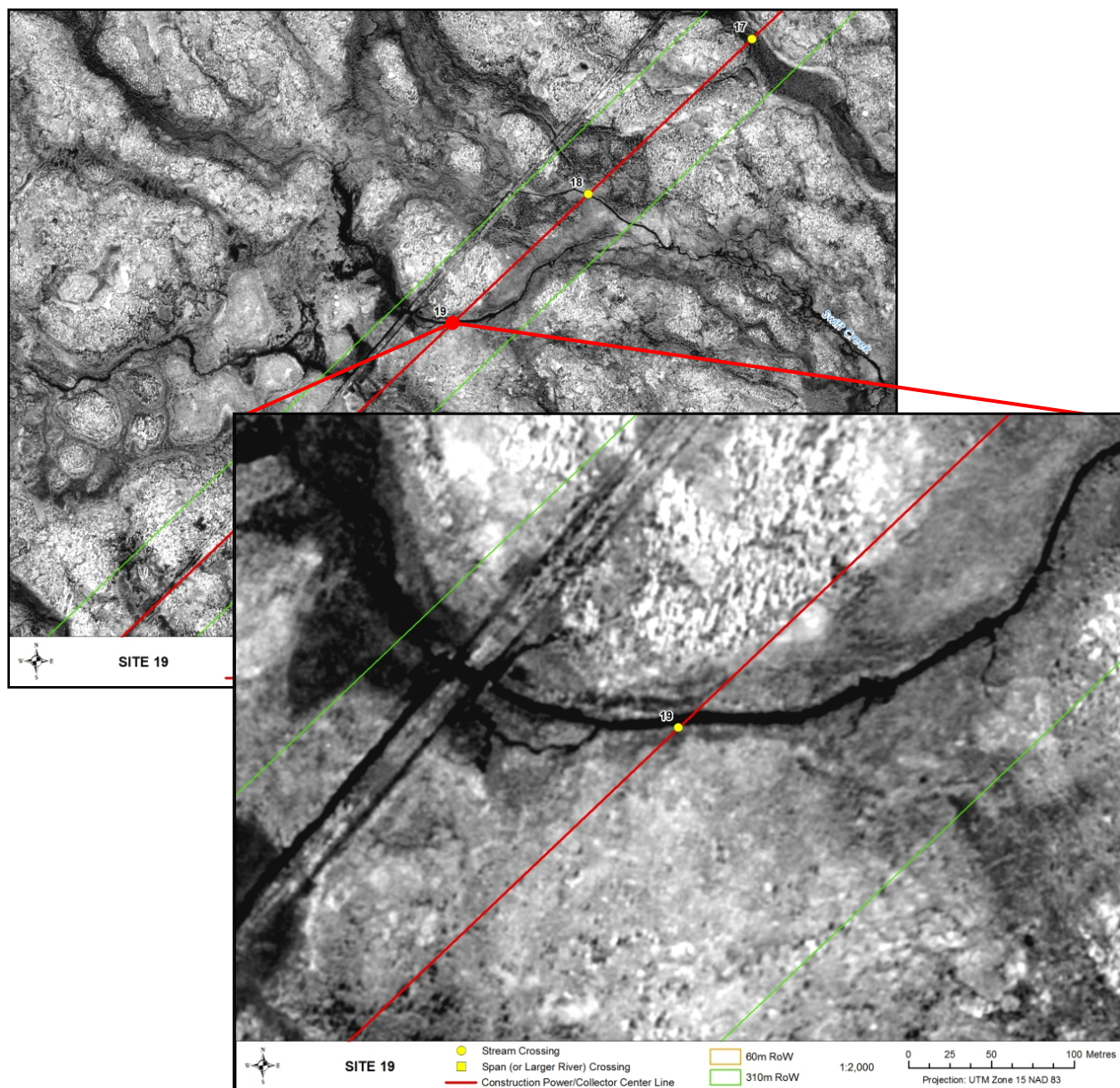
Unnamed tributary of Swift Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 806710
Northing: 6284436
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: IW
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: LC
U/S Drainage: 15.80 km²
Distance to Receiving Water: Swift Creek 0.69 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	10
Channel Width (m)	10

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	24
Left Bank	10

Riparian Distance (m)

Right Bank	35
Left Bank	120

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

-

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	100
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Swift Creek likely provides marginal fish habitat for forage fish only. At the crossing, the creek has a well-defined channel and broad floodplain that appears poorly drained. An abandoned railway crossing exists 122 m upstream of the site within the RoW.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

The soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 20

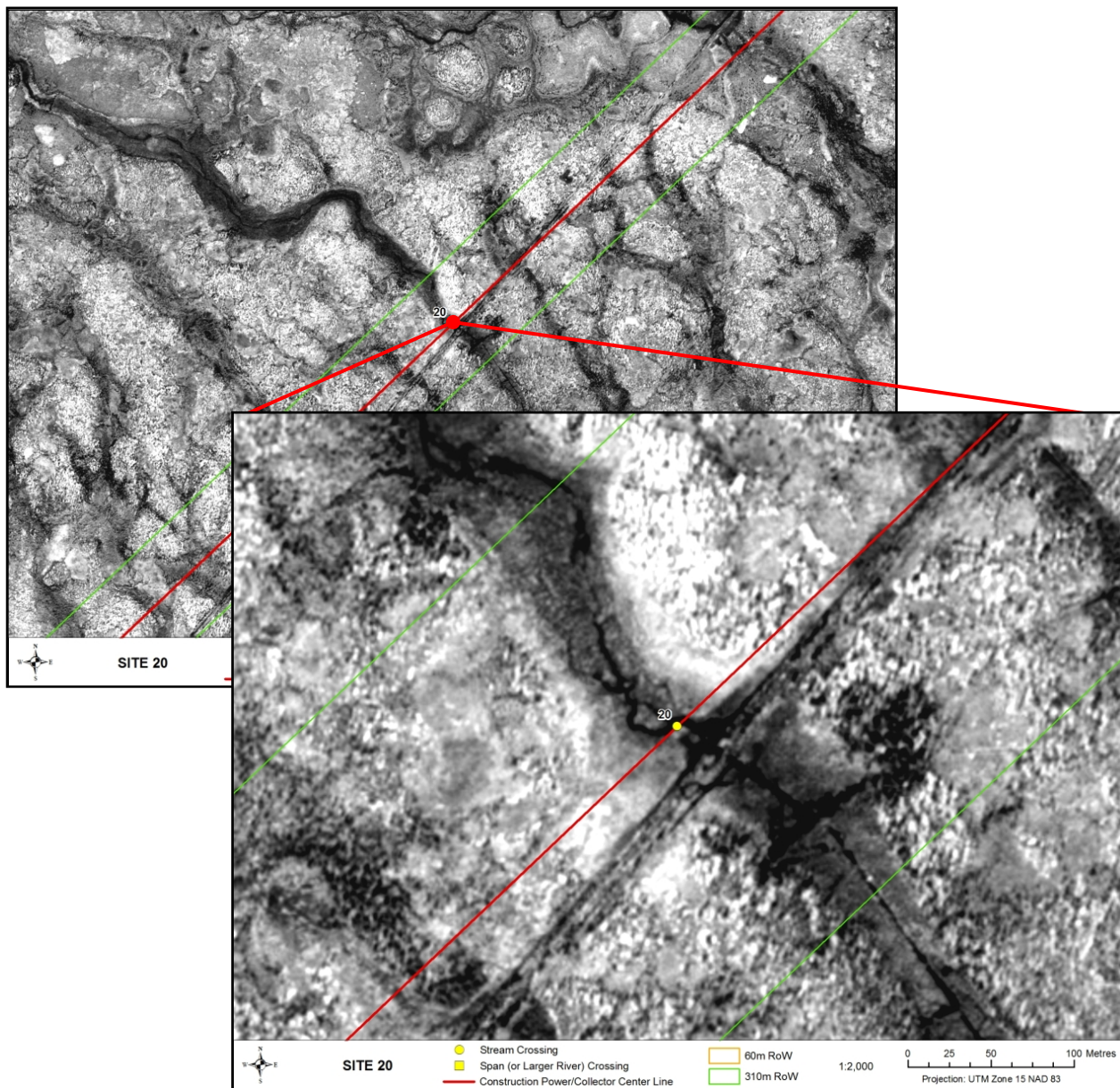
Unnamed tributary of Beaver Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 805699
Northing: 6283294
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: IR
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: LC
U/S Drainage: 6.15 km²
Distance to Receiving Water: Beaver Creek 3.68 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	6
Channel Width (m)	6

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	37
Left Bank	49

Riparian Distance (m)

Right Bank	53
Left Bank	67

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	-
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
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Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%) -

Cover Composition (% of Total) -

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	15
Run	85
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Beaver Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat with a soft floodplain. It likely provides no overwintering potential. Downstream areas are heavily impacted by beaver dams. An abandoned railway crossing exists 16 m downstream of site within the RoW.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 21

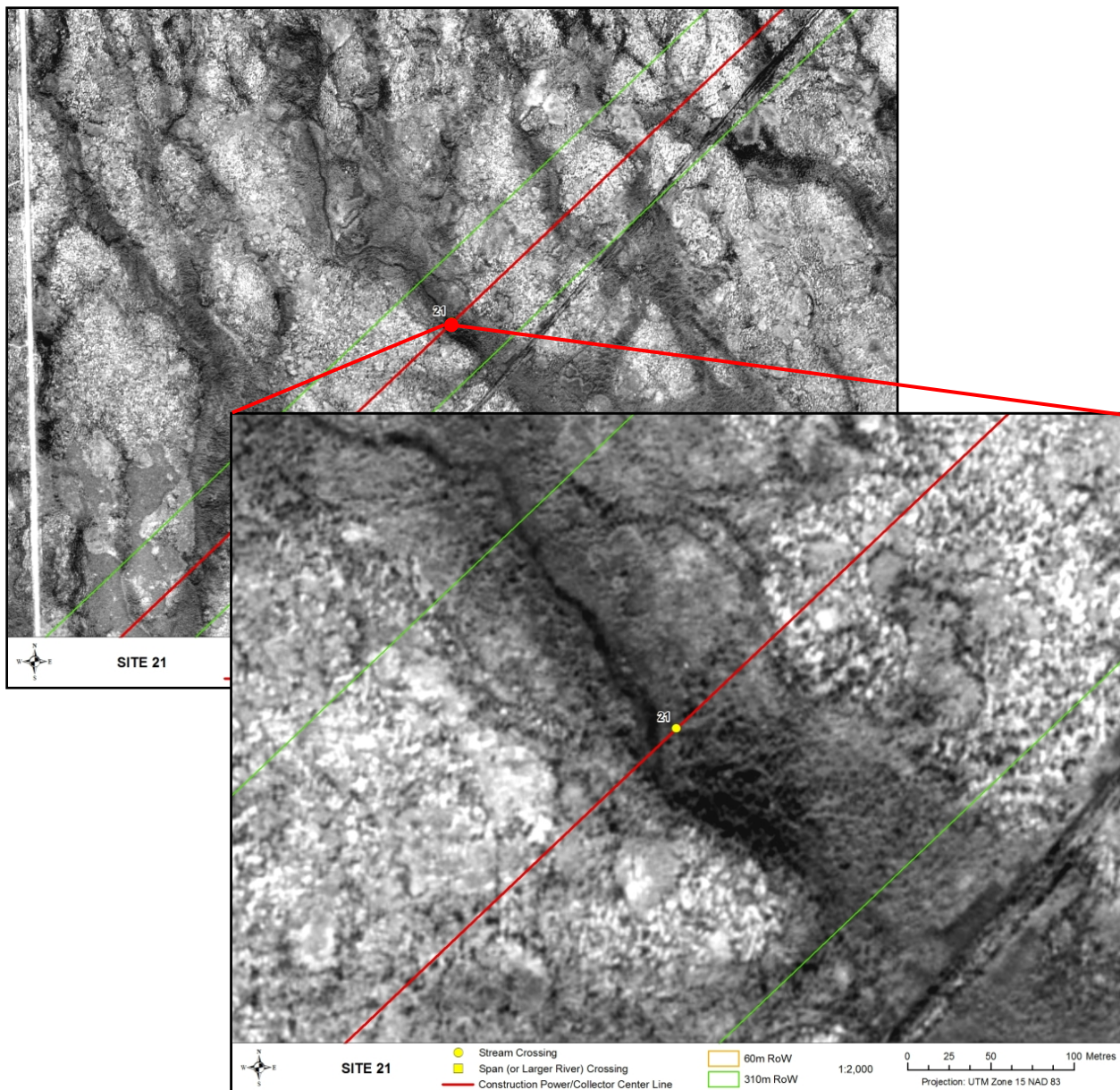
Beaver Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 804383
Northing: 6281807
Data Source: DOL.

General Morphology

Stream/Lake: Stream
Pattern: IR
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 6.56 km²
Distance to Receiving Water: Nelson River 5.21 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	7
Channel Width (m)	16

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	27
Left Bank	15

Riparian Distance (m)

Right Bank	82
Left Bank	39

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	-
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	0
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: Kroeker and MacDonell (2006) reported brook trout, brook stickleback, fathead minnow, sculpins (mottle and slimy), longnose dace, white sucker, and longnose sucker. Johnson et al (2005) reported brook trout, brook stickleback, fathead minnow, slimy sculpin, finescale dace, longnose dace, pearl dace, white sucker, longnose sucker, and catostomid young of the year. Swanson et al (1991) reported burbot, brook trout, brook stickleback, stickleback spp., slimy sculpin, sculpin spp., longnose dace, blacknose dace, dace spp., white sucker, longnose sucker, sucker spp., and northern pike. All studies also found the creek to provide nursery habitat for brook trout, and all sampling was conducted in the lower reaches of the creek.

Comments:

Beaver Creek is known to provide important fish habitat for both indicator and forage fish in the lower reaches of the creek. In the reaches where the RoW crosses the channel it likely provides habitat for forage fish, as well as habitat for indicator fish at wetter times of the year. The crossing consists of bog habitat with a defined channel, a soft floodplain, and little water. An abandoned railway crossing exists 65m DS of the RoW.

+ Habitat Sensitivity

Sensitivity Rating: Marginal

Comments: The soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 22

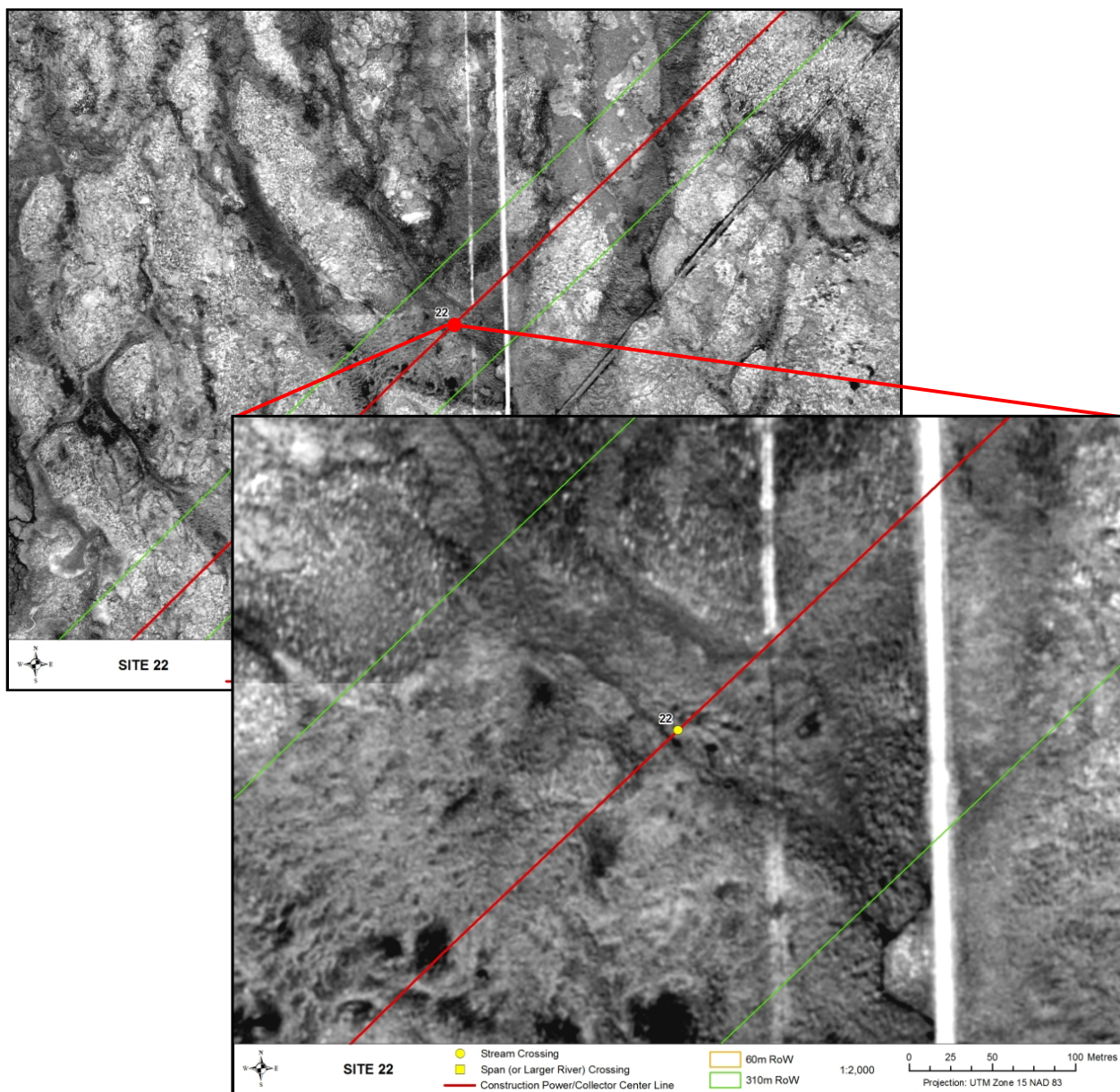
Unnamed tributary of Sundance Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 803110
Northing: 6280369
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: IR
Confinement: UN
Stage: Low
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 5.00 km²
Distance to Receiving Water: Sundance Creek
3.88 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	331 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	336 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present Yes

DFO Manitoba Agricultural Watershed Classification: -

Fish Habitat Classification: Marginal

Fish Presence: N/A

Comments:

This unnamed tributary of Sundance Creek likely provides marginal fish habitat for forage fish only. At the crossing it consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 23

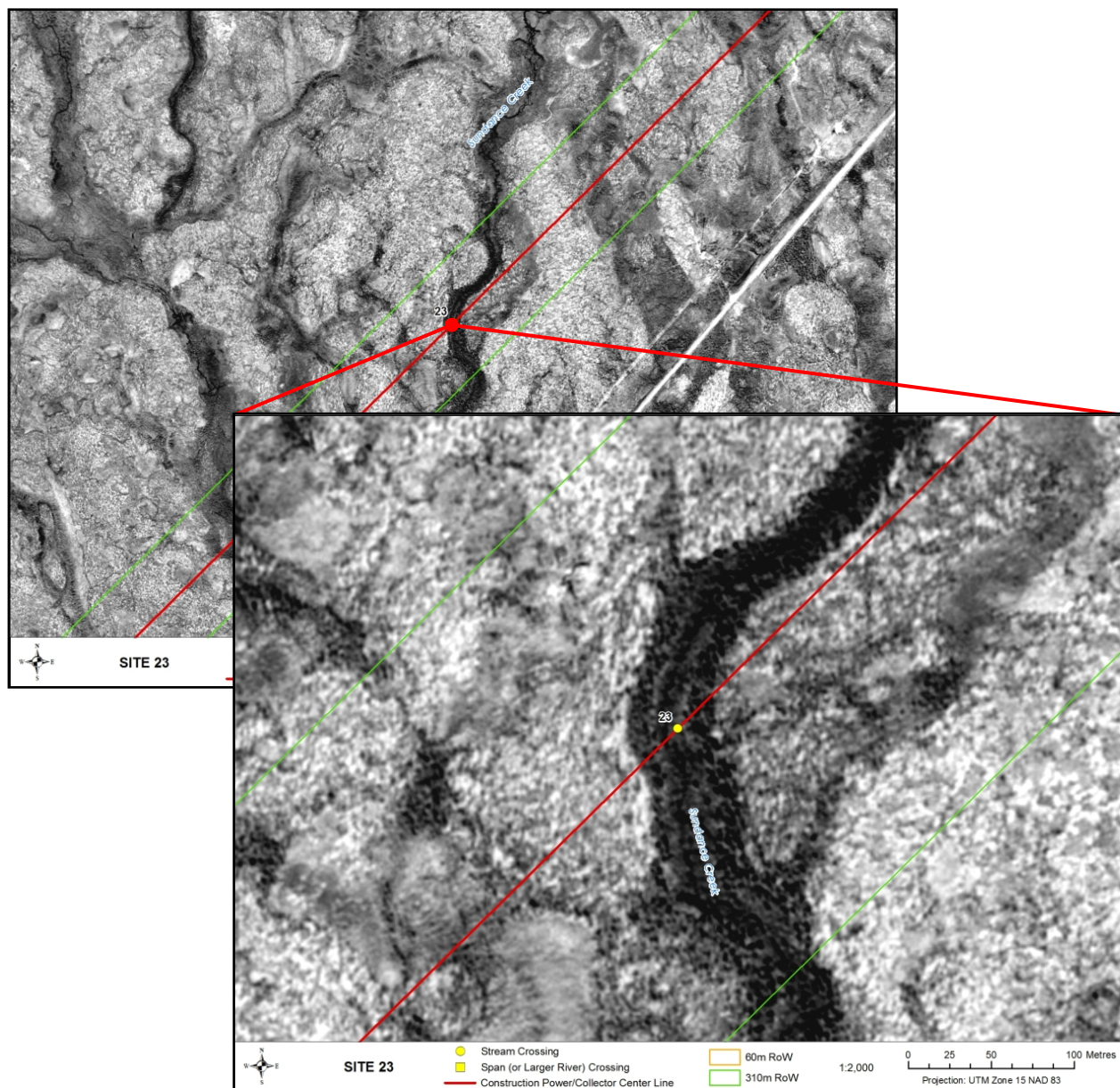
Sundance Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 801693
Northing: 6278712
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: IM
Confinement: UN
Stage: Moderate
Flow Regime: Perennial
Morphology: -
U/S Drainage: 31.47 km²
Distance to Receiving Water: Nelson River 7.38 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	3
Channel Width (m)	3

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	11
Left Bank	12

Riparian Distance (m)

Right Bank	22
Left Bank	24

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

	-
--	---

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

-

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: Kroeker and MacDonell (2006) reported brook trout, brook stickleback, sculpins (mottled and slimy), longnose dace, and longnose sucker. Johnson et al. (2005) reported brook trout, brook stickleback, slimy sculpin, longnose dace, white sucker, and longnose sucker. Both studies also found the creek to provide nursery habitat for brook trout. All sampling was conducted in the lower reaches of the creek.

Comments:

Sundance Creek is known to provide important fish habitat for both indicator and forage fish in the lower reaches of the creek. Where the RoW crosses the channel it likely provides habitat for forage fish, as well as habitat for indicator fish at wetter times of the year. The crossing consists of a soft floodplain with little water.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments: The soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.

Site 24

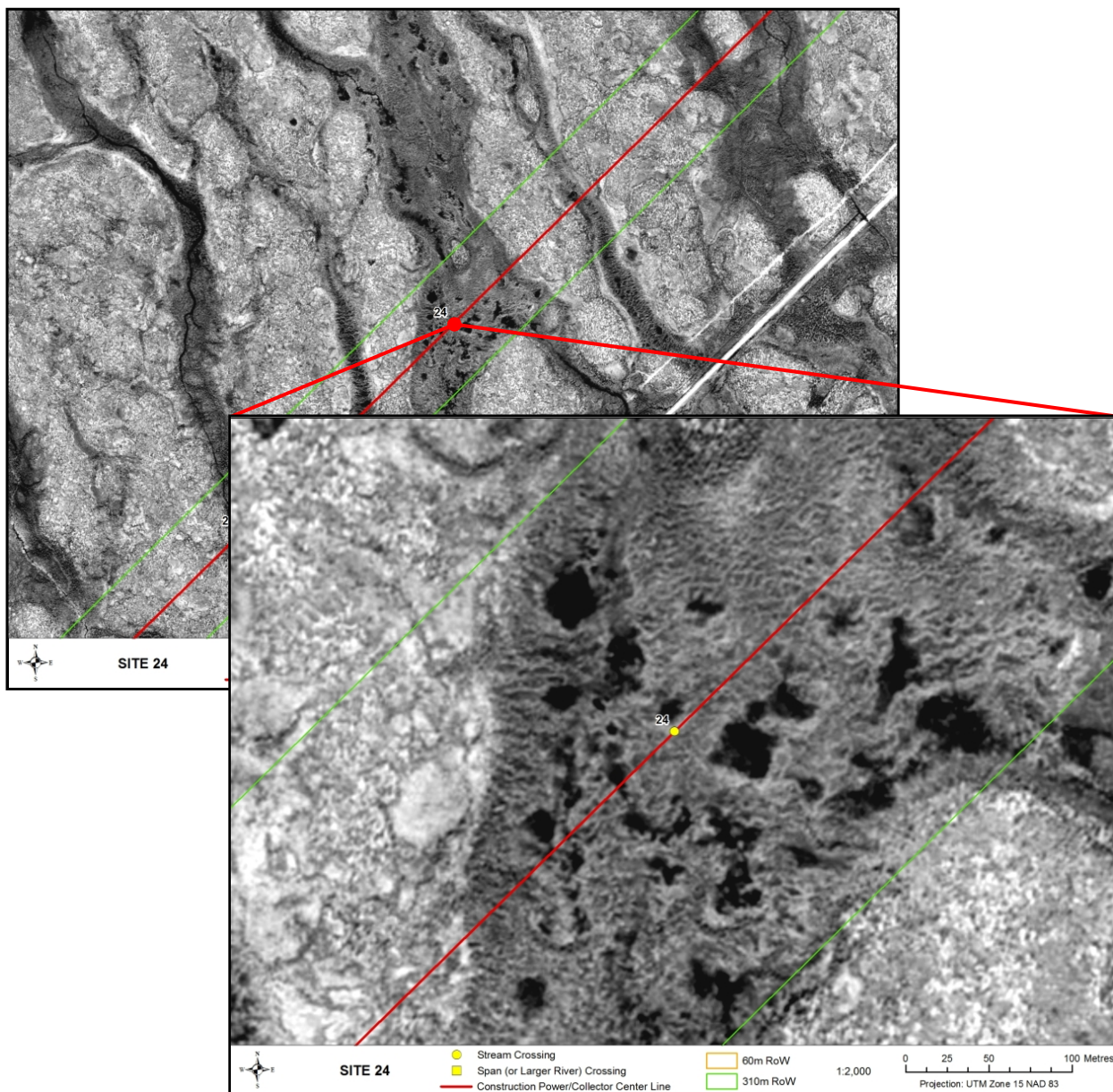
Unnamed tributary of Raindance Creek

Location

Datum: NAD 83
UTM: Zone: 14N
Easting: 800391
Northing: 6277183
Data Source: DOL

General Morphology

Stream/Lake: Stream
Pattern: -
Confinement: UN
Stage: Moderate
Flow Regime: Intermittent
Morphology: -
U/S Drainage: 8.56 km²
Distance to Receiving Water: Raindance Creek
1.49 km



Site Conditions

+ Physical Data

Channel Profile

Channel and Flow

Wetted Width (m)	-
Channel Width (m)	-

Banks (%)

Right Bank Stability	-
Left Bank Stability	-

Riparian

Floodplain Distance (m)

Right Bank	232 (total)
Left Bank	-

Riparian Distance (m)

Right Bank	270 (total)
Left Bank	-

Riparian Vegetation Type (Y/N)

None	-
Grasses/sedges	Y
Shrubs	Y
Conifers	Y
Deciduous	-
Mixed Forest	-

Canopy Cover (%)

0

Substrate

Substrate Type (%)

Fines	-
Small Gravel	-
Large Gravel	-
Cobble	-
Boulder	-

Cover Types

Total Cover Available (%)

-

Cover Composition (% of Total)

Large Woody Debris	-
Overhanging Vegetation	-
Instream Vegetation	-
Pool	-
Boulder	-
Undercut Bank	-
Surface Turbulence	-
Turbidity	-

Habitat Type

Habitat Composition

Pool	-
Run	-
Flat	-
Riffle	-
Rapid	-

Fish Habitat Classification and Sensitivity

+ Fish Habitat

Fish Habitat Present

Yes

DFO Manitoba Agricultural Watershed Classification:

-

Fish Habitat Classification:

Marginal

Fish Presence: N/A

Comments:

This unnamed tributary likely provides marginal fish habitat for forage fish only. The tributary consists of bog habitat, with no defined channel and a soft floodplain. It likely provides no overwintering potential.

+ Habitat Sensitivity

Sensitivity Rating: Moderate

Comments:

Soft floodplain results in a moderate sensitivity rating, despite marginal fish habitat.