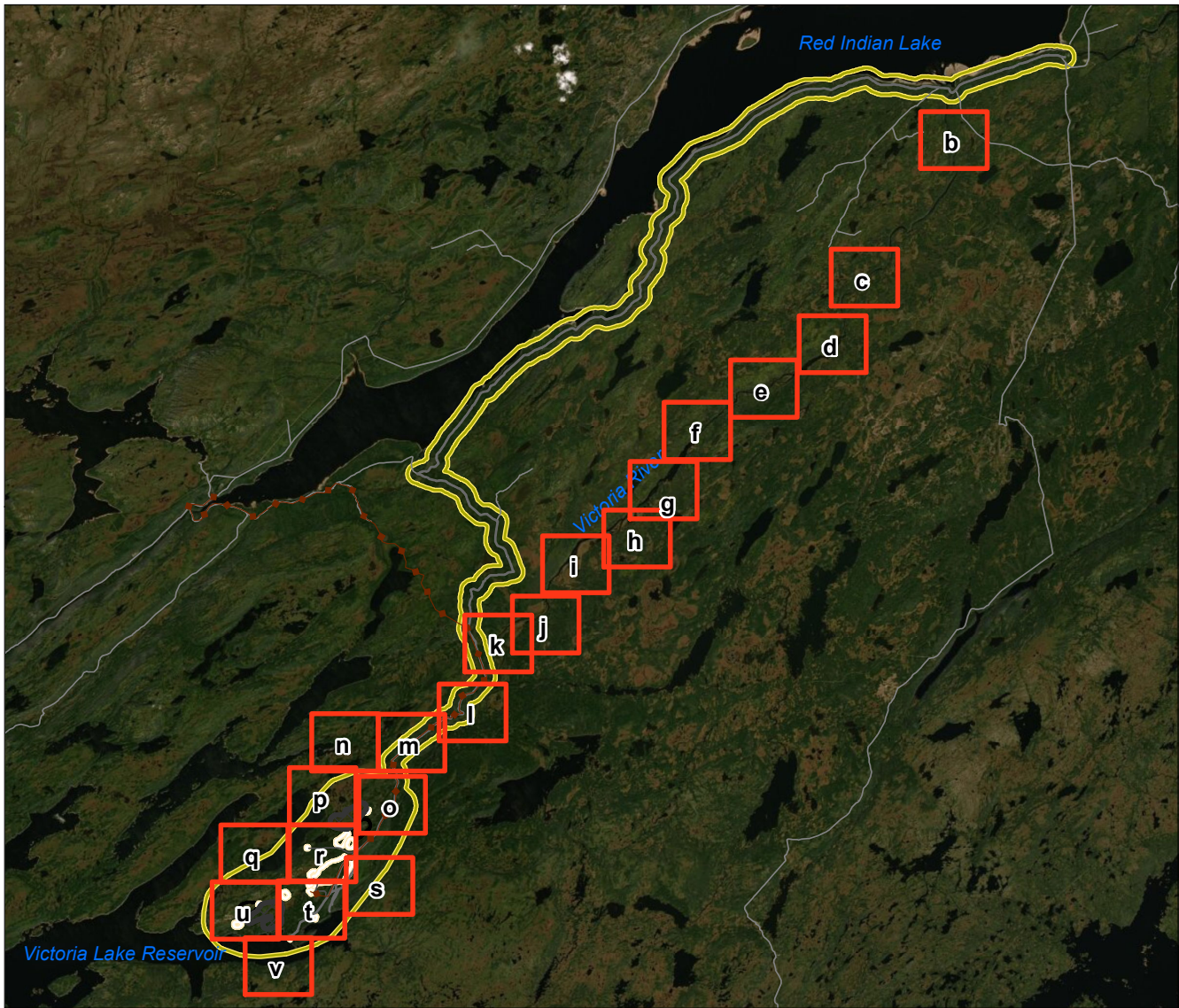
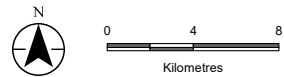


APPENDIX IR-50.B IR-50 MAPBOOK





- Map Index
- Local Assessment Area
- Mine Features**
- Access Road
- Site Road
- Power Line
- Open Pit
- Waste Rock Pile
- Other Mine Infrastructure
- Other Features**
- Resource / Recreation Road

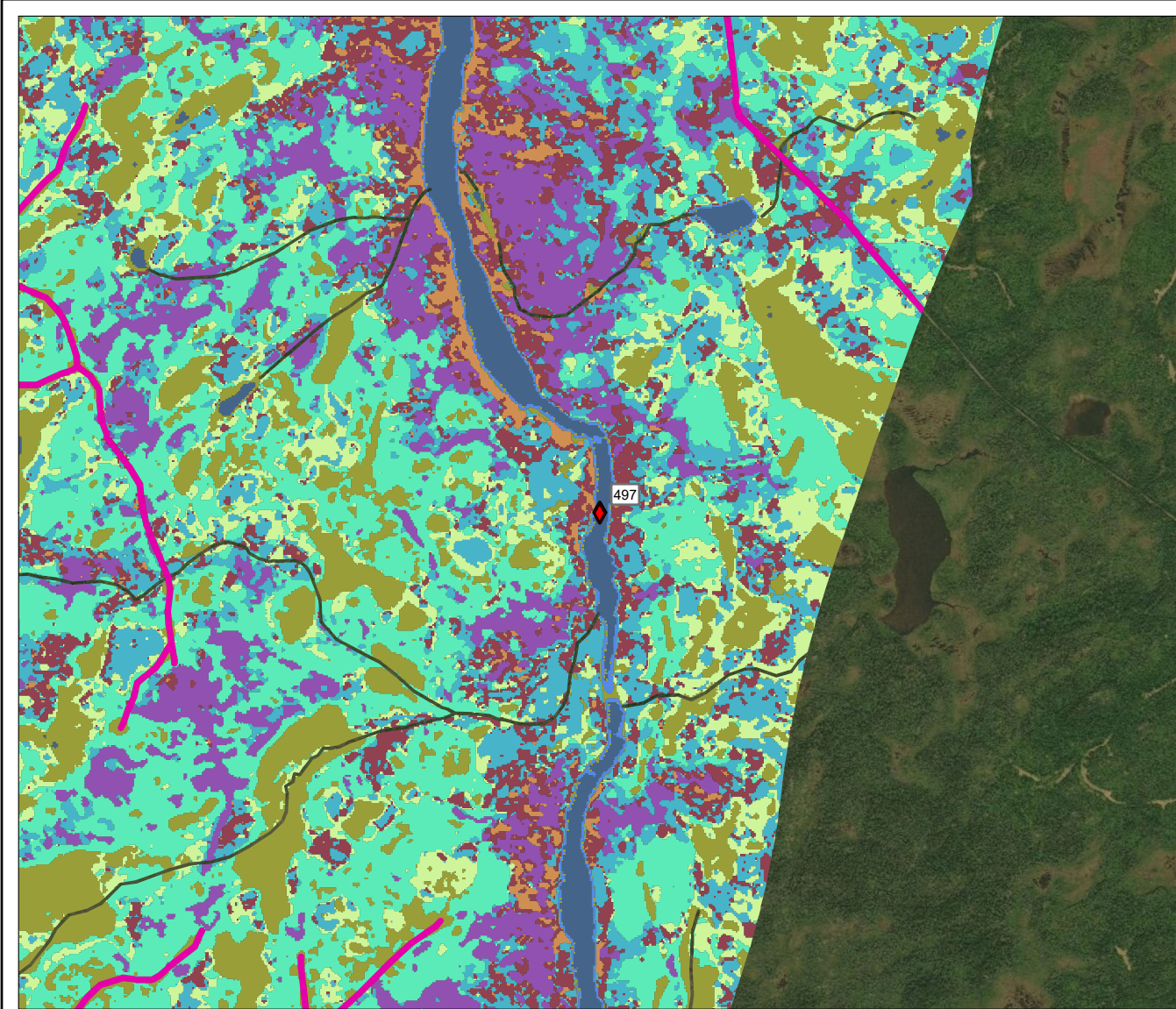


Project Location **Figure IR50.2a**
 Valentine Lake
 Central Newfoundland, CA

Client/Project 121416408_IR50a
 Marathon Gold Corporation
 Valentine Gold Project
 Environmental Impact Statement

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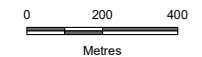
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



◆ 2011 Summer Brood Waterfowl Observation

ELC

- ◆ Anthropogenic
- ◆ Shrub Fen/Shrub Bog
- ◆ Open Water
- ◆ Black Spruce Forest
- ◆ Balsam Fir Forest
- ◆ Alder Thicket
- ◆ Kalmia-Black Spruce Forest
- ◆ Mixedwood Forest
- ◆ Regenerating Forest
- ◆ Riparian Transition



Project Location
Valentine Lake
Central Newfoundland, CA

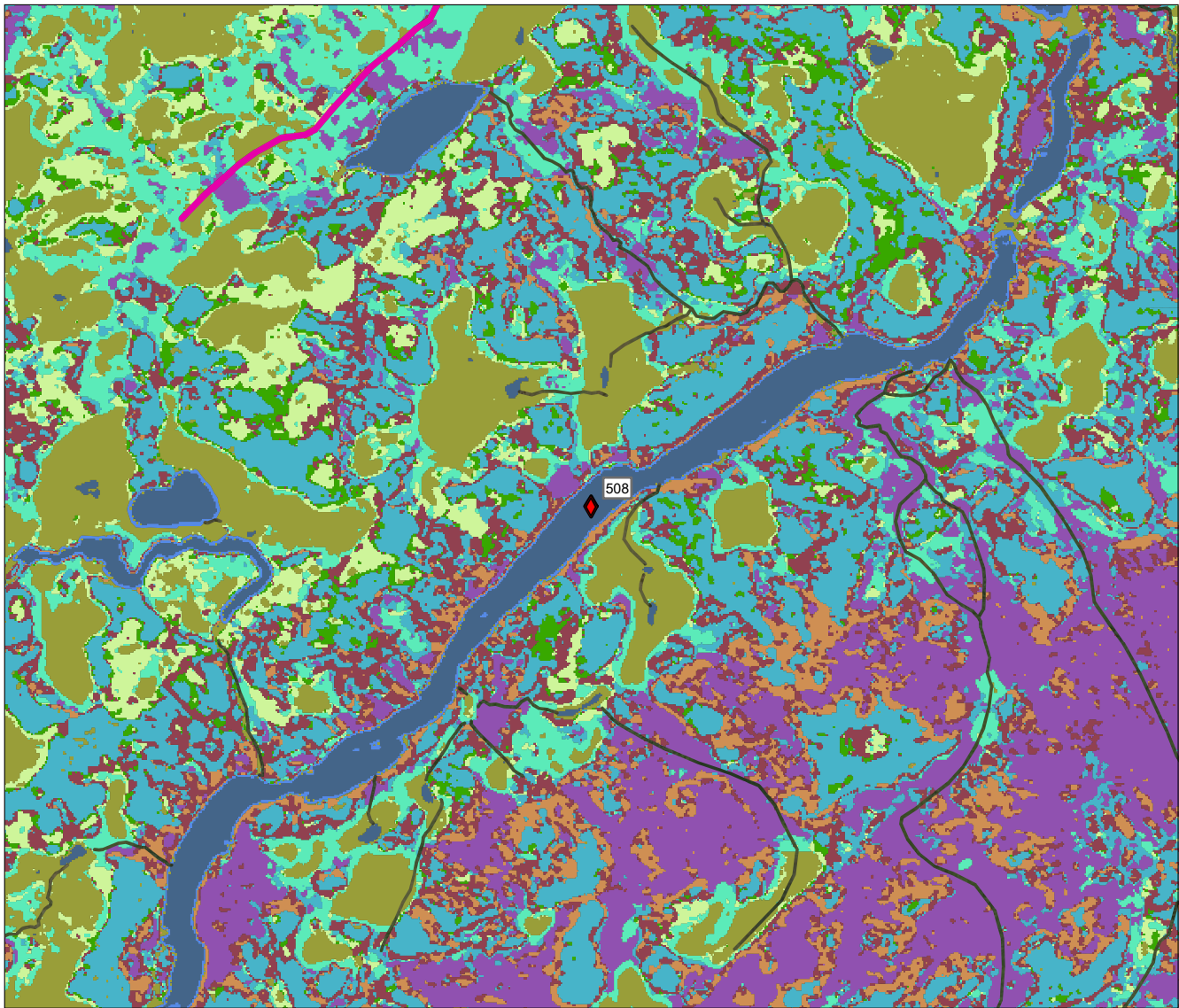
Figure IR50.2b

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_1-b

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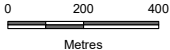
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



◆ 2011 Summer Brood Waterfowl Observation

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

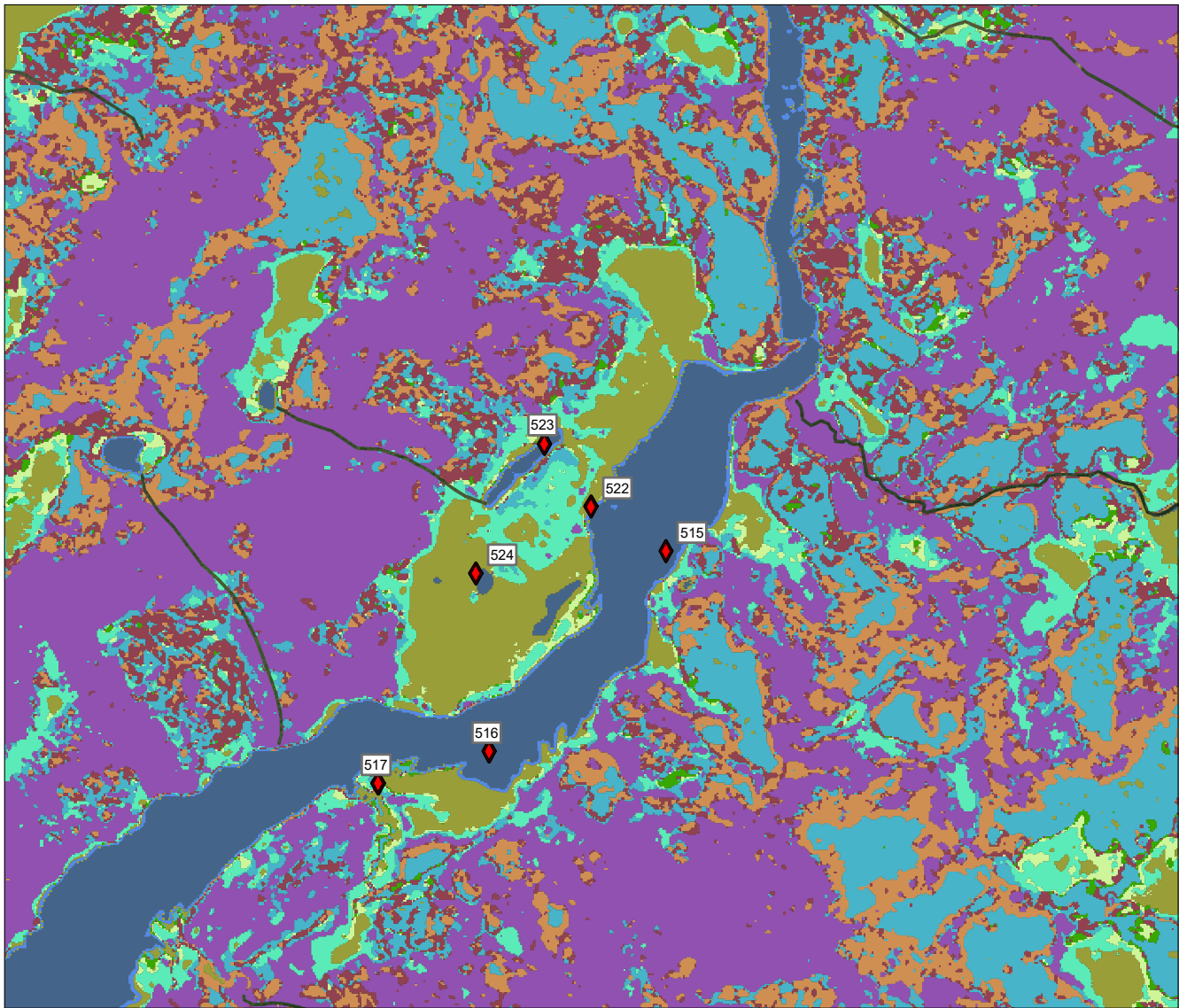
Figure IR50.2c

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_2-c

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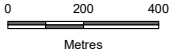
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◆ 2011 Summer Brood Waterfowl Observation

ELC

- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

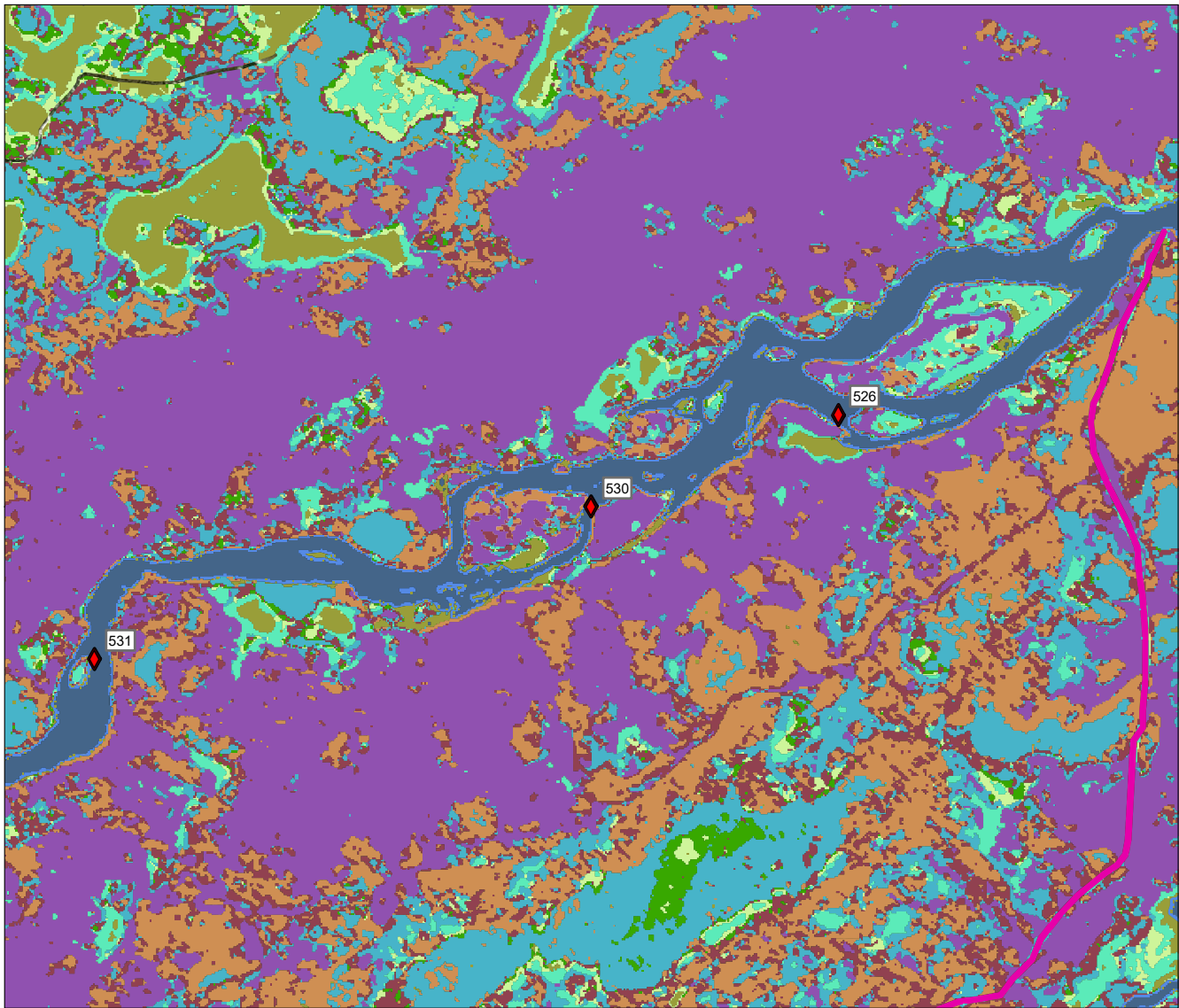
Figure IR50.2d

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_3-d

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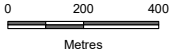
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◆ 2011 Summer Brood Waterfowl Observation

ELC

- ◆ Anthropogenic
- ◆ Shrub Fen/Shrub Bog
- ◆ Open Water
- ◆ Black Spruce Forest
- ◆ Balsam Fir Forest
- ◆ Alder Thicket
- ◆ Kalmia-Black Spruce Forest
- ◆ Mixedwood Forest
- ◆ Regenerating Forest
- ◆ Riparian Transition
- ◆ Wet Coniferous Forest



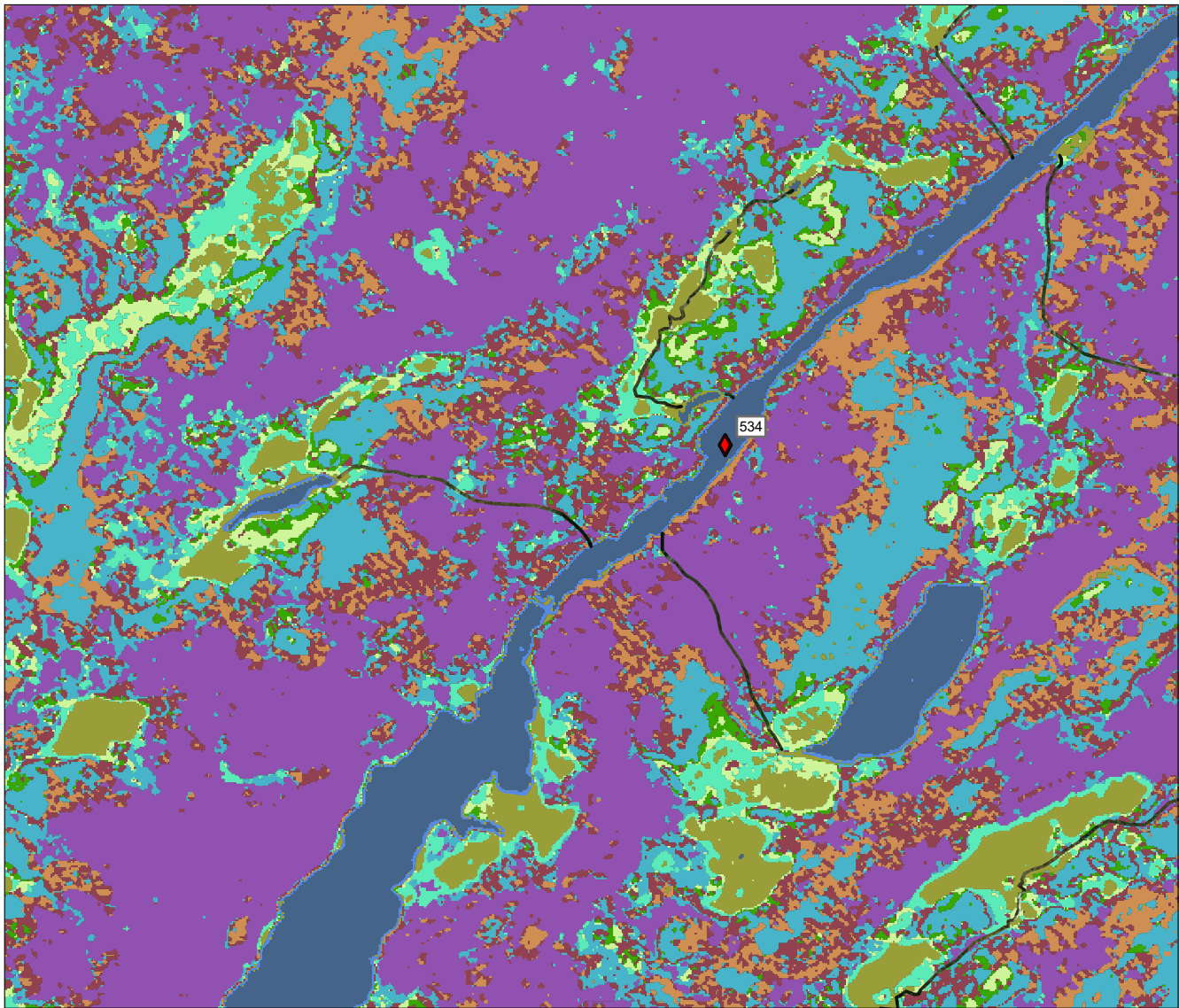
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2e

Client/Project 121416408_IR50_4-e
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

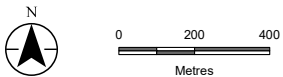
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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◆ 2011 Summer Brood Waterfowl Observation

- ELC**
- Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

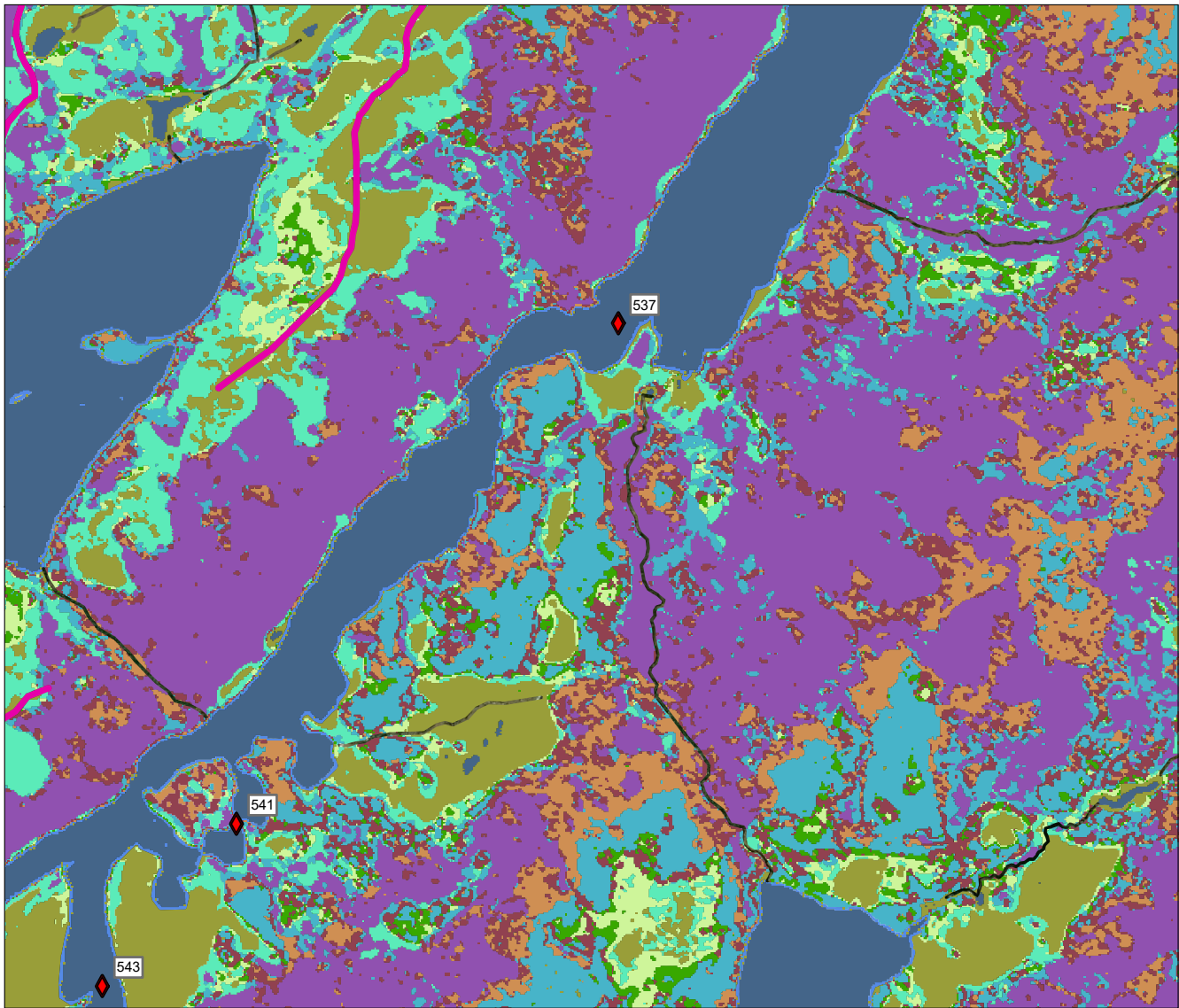
Figure IR50.2f

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_5-F

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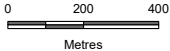
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



◆ 2011 Summer Brood Waterfowl Observation

ELC

- ◆ Anthropogenic
- ◆ Shrub Fen/Shrub Bog
- ◆ Open Water
- ◆ Black Spruce Forest
- ◆ Balsam Fir Forest
- ◆ Alder Thicket
- ◆ Kalmia-Black Spruce Forest
- ◆ Mixedwood Forest
- ◆ Regenerating Forest
- ◆ Riparian Transition
- ◆ Wet Coniferous Forest



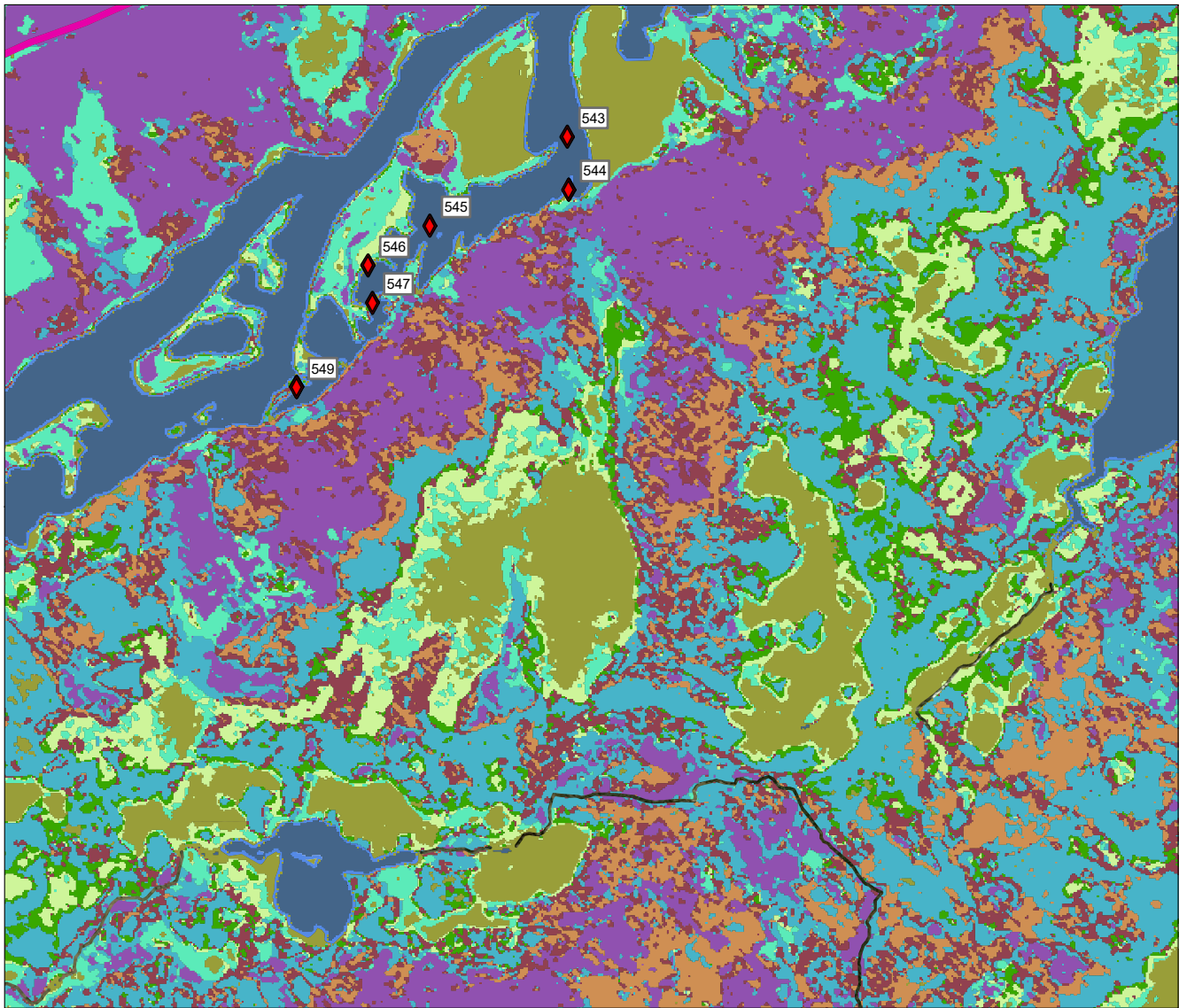
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2g

Client/Project 121416408_IR50_6-g
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

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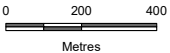
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◆ 2011 Summer Brood Waterfowl Observation

ELC

- ◆ Anthropogenic
- ◆ Shrub Fen/Shrub Bog
- ◆ Open Water
- ◆ Black Spruce Forest
- ◆ Balsam Fir Forest
- ◆ Alder Thicket
- ◆ Kalmia-Black Spruce Forest
- ◆ Mixedwood Forest
- ◆ Regenerating Forest
- ◆ Riparian Transition
- ◆ Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

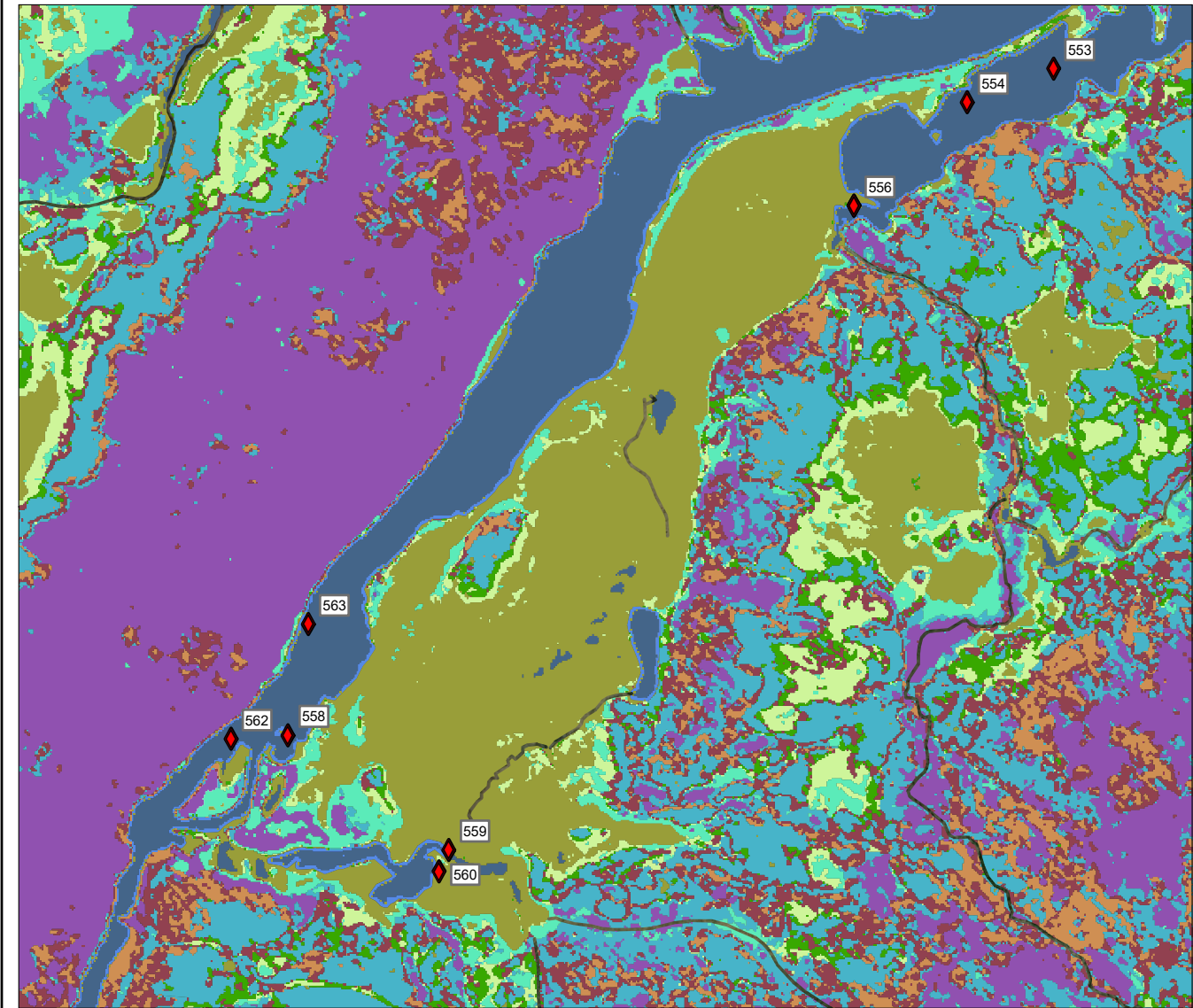
Figure IR50.2h

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_7-h

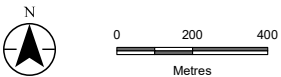
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◆ 2011 Summer Brood Waterfowl Observation

- ELC**
- Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



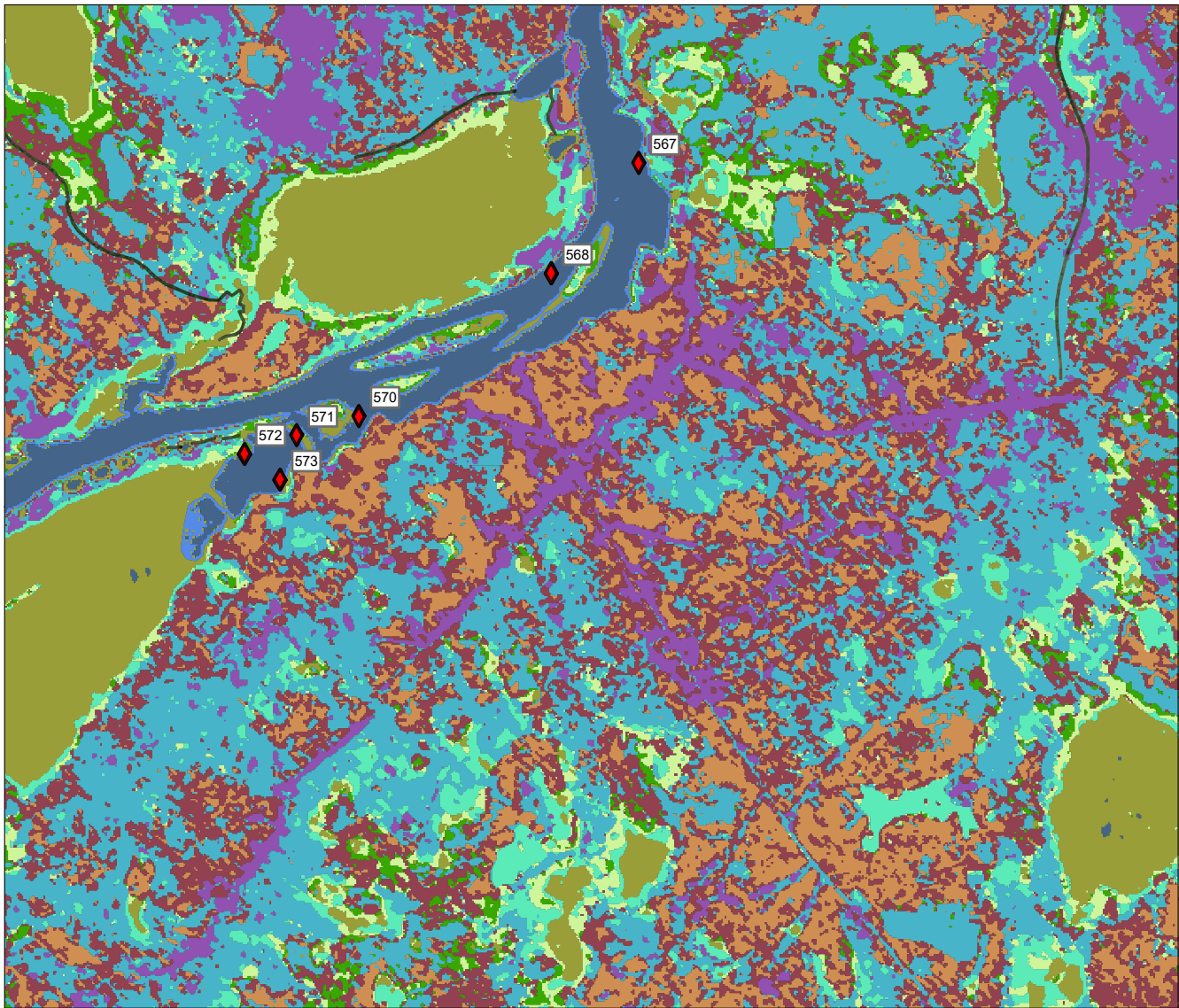
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2i

Client/Project 121416408_IR50_8-I
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

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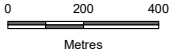
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◆ 2011 Summer Brood Waterfowl Observation

ELC

- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

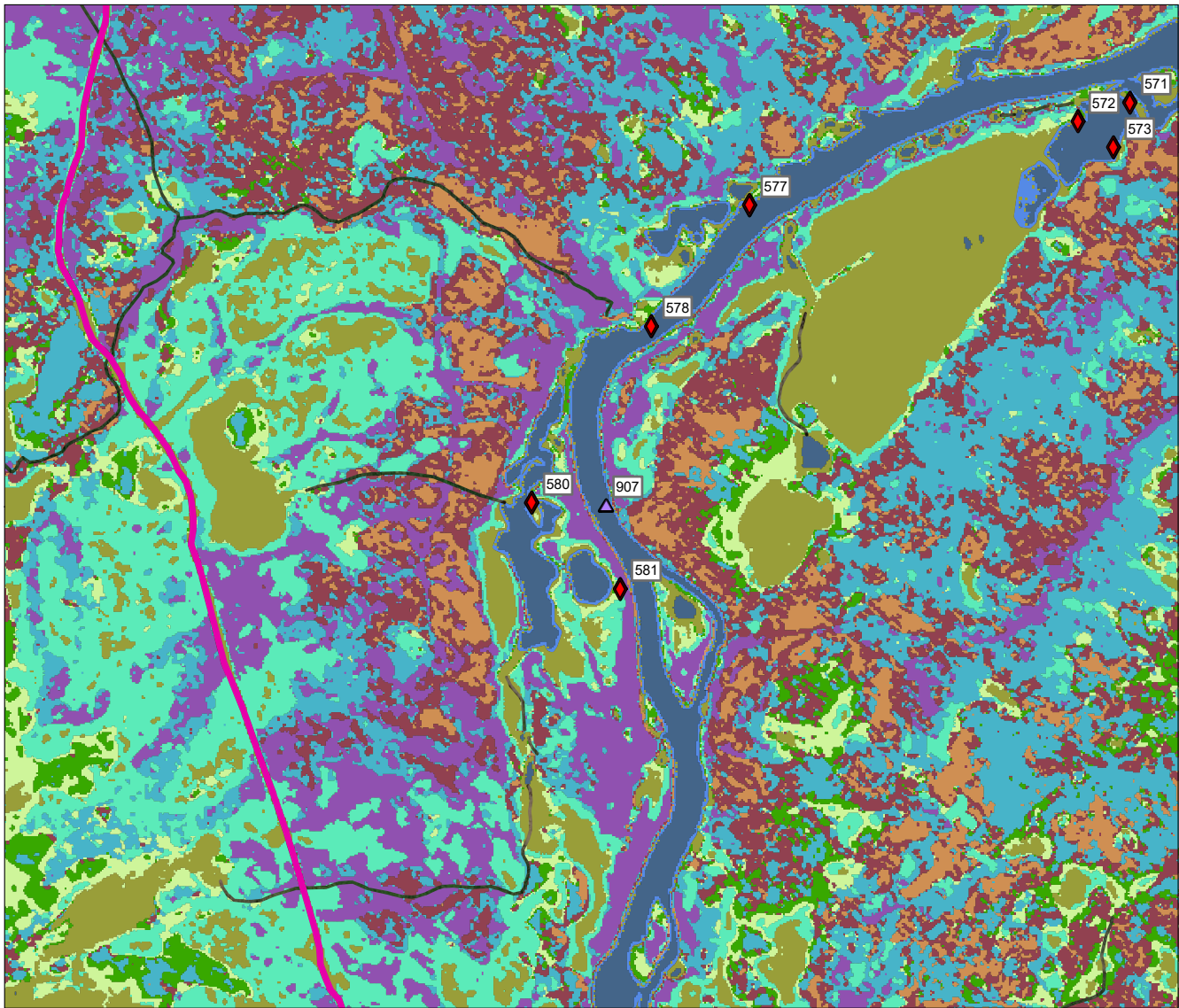
Figure IR50.2j

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_9-j

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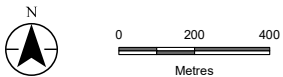
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- ◆ 2011 Summer Brood Waterfowl Observation
- △ 2017 Fall Staging Waterfowl Observation

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

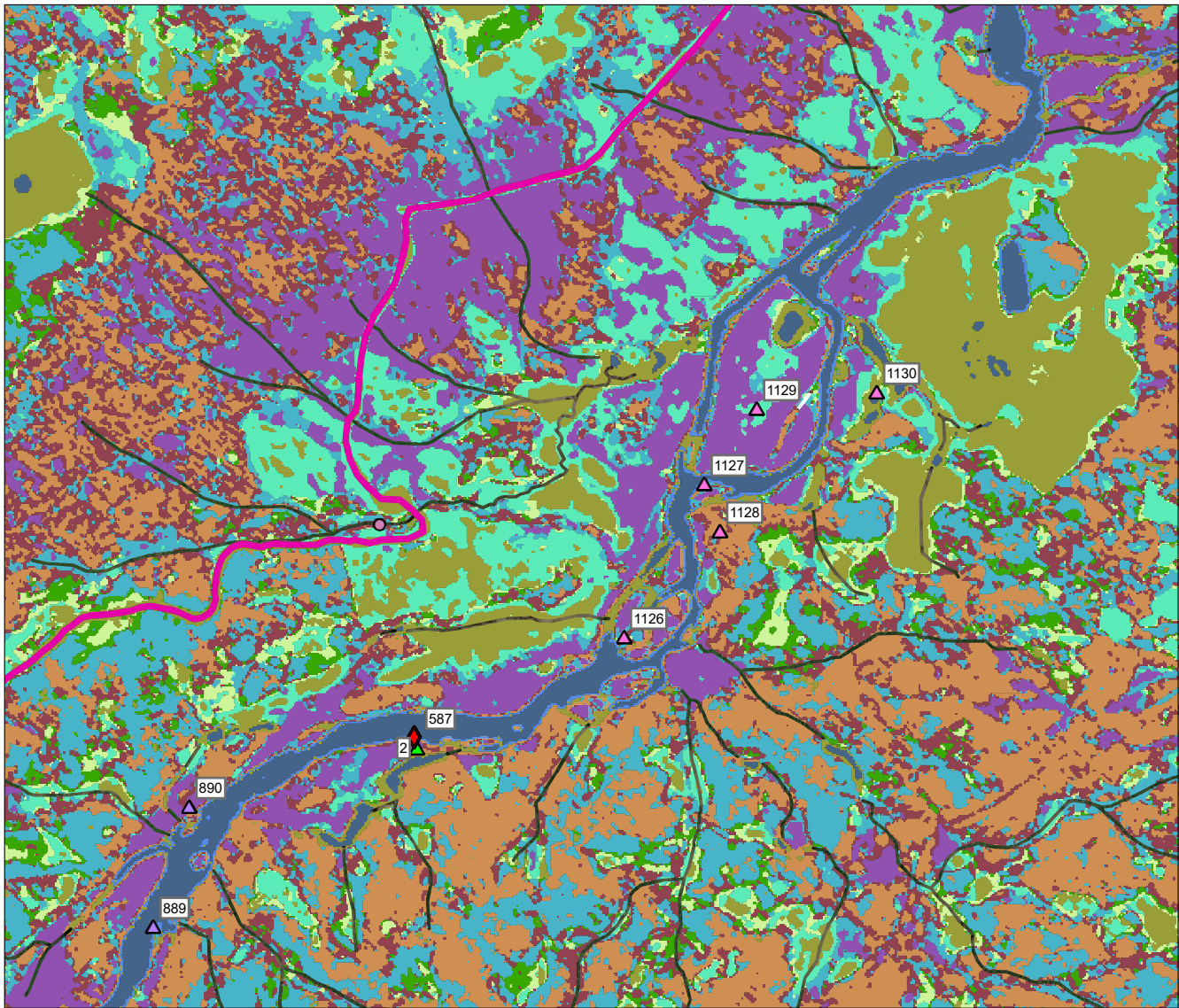
Figure IR50.2k

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_10-k

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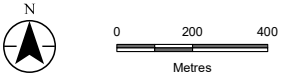
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- ◆ 2011 Summer Brood Waterfowl Observation
- △ 2017 Spring Breeding Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation
- △ 2017 Fall Staging Waterfowl Observation

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.21

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_114

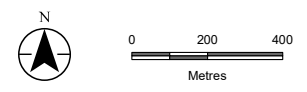
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- ◆ 2011 Summer Brood Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation
- 2019 Common Nighthawk Point Count Site
- 2011 Songbird Point Count Site
- 2019 Songbird Point Count Site

- ELC**
- █ Anthropogenic
 - █ Shrub Fen/Shrub Bog
 - █ Open Water
 - █ Black Spruce Forest
 - █ Balsam Fir Forest
 - █ Alder Thicket
 - █ Kalmia-Black Spruce Forest
 - █ Mixedwood Forest
 - █ Regenerating Forest
 - █ Riparian Transition
 - █ Wet Coniferous Forest



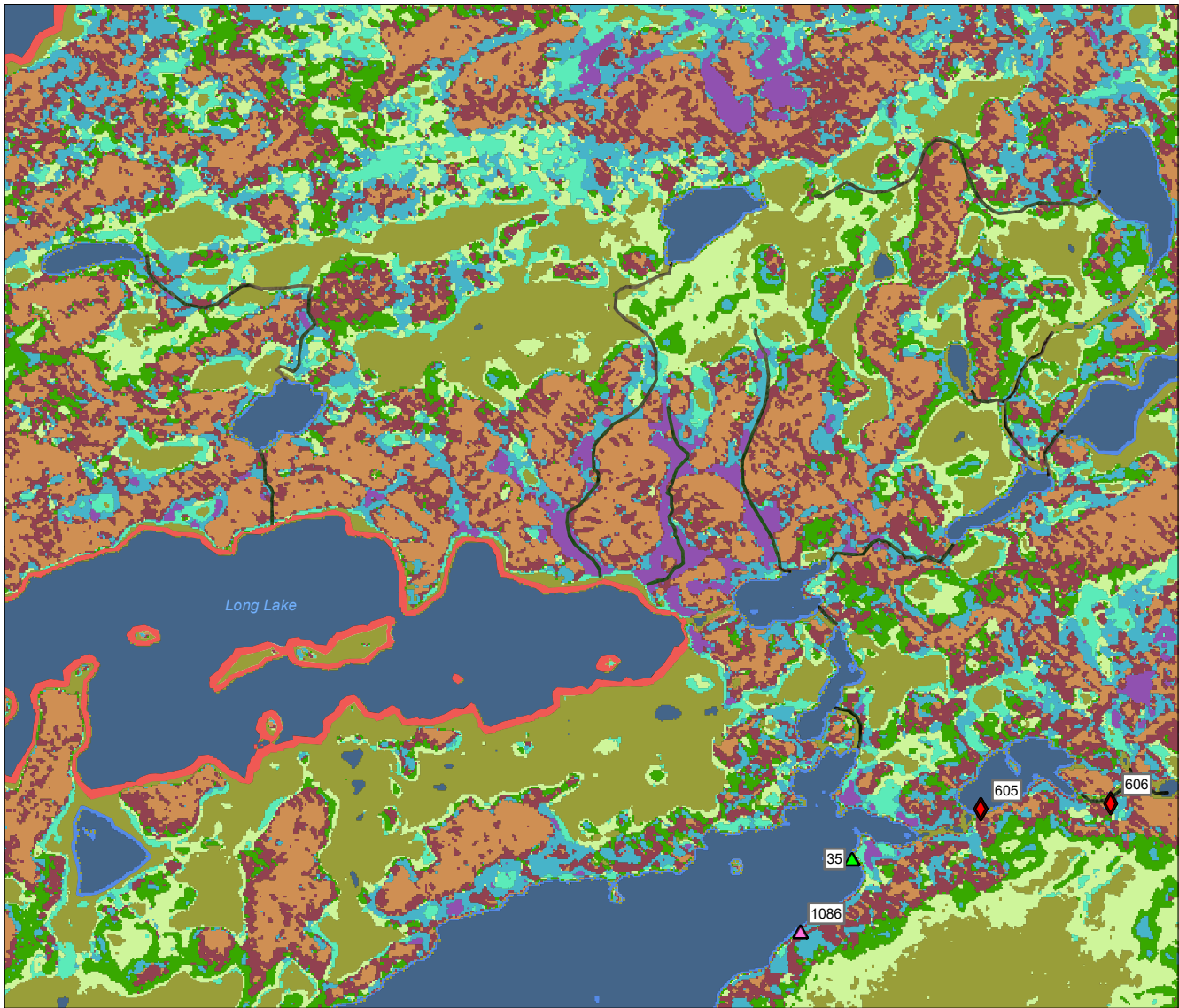
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2m

Client/Project 121416408_IR50_12-m
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

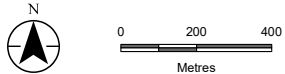
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- ◆ 2011 Summer Brood Waterfowl Observation
- ▲ 2017 Spring Breeding Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation

- ELC**
- Sand Shoreline
 - Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



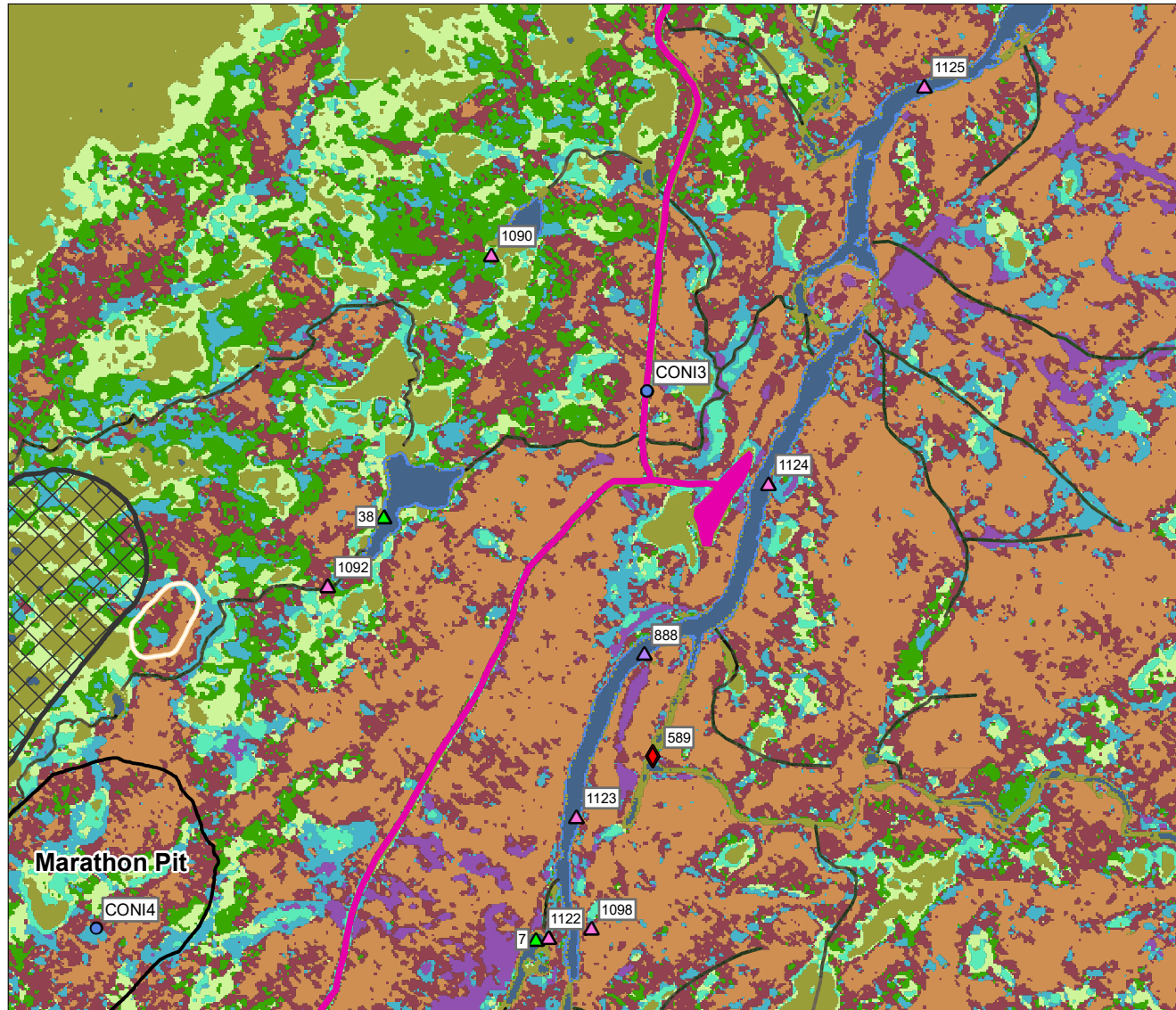
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2n

Client/Project 121416408_IR50_13-n
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

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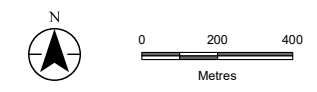
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- 2011 Summer Brood Waterfowl Observation
- 2017 Spring Breeding Waterfowl Observation
- 2011 Spring Breeding Waterfowl Observation
- 2017 Fall Staging Waterfowl Observation
- 2019 Common Nighthawk Point Count Site
- 2019 Songbird Point Count Site

- Mine Features**
- Open Pit
 - Waste Rock Pile
 - Other Mine Infrastructure

- ELC**
- Anthropogenic
 - Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

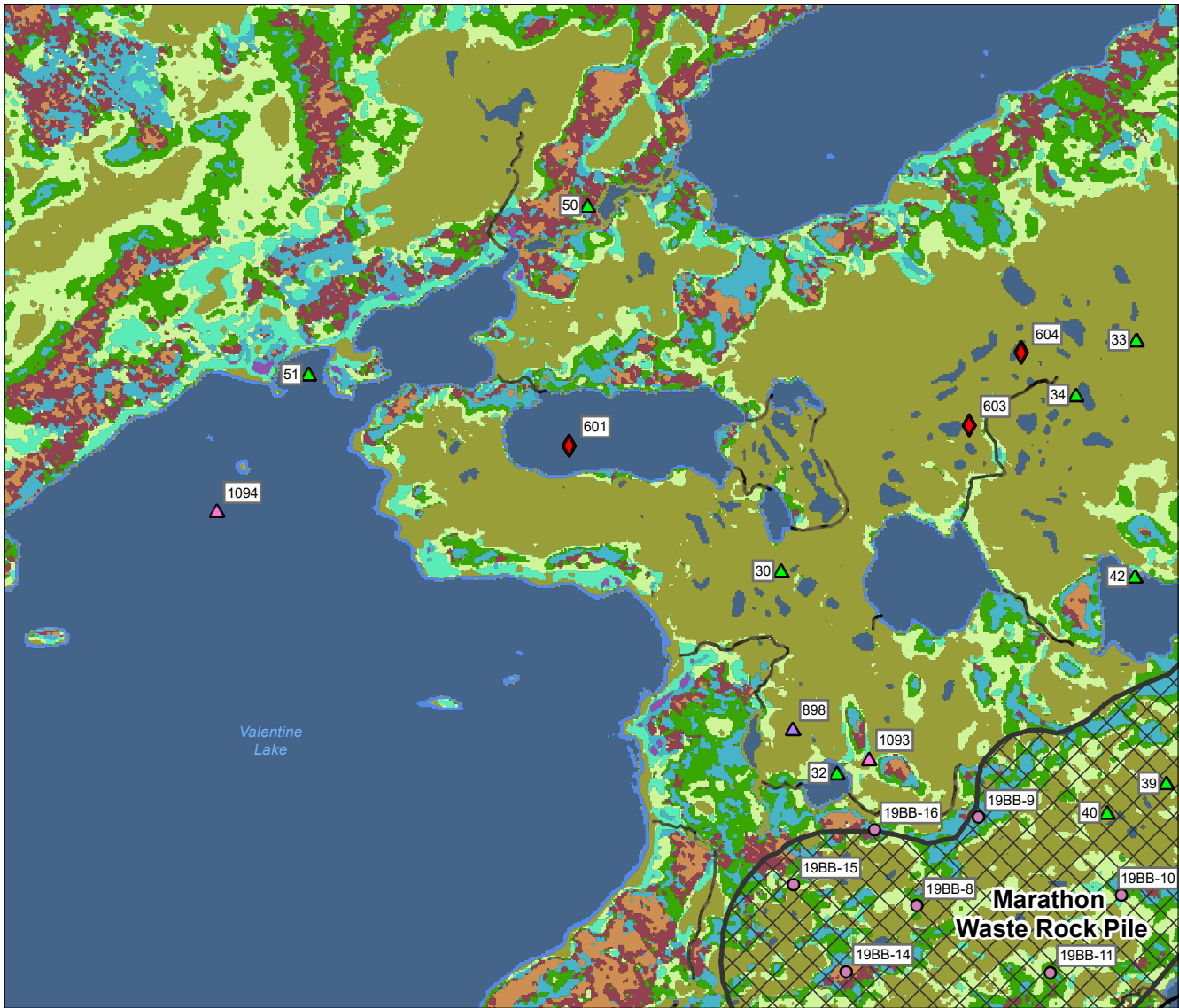
Figure IR50.2o

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_14-o

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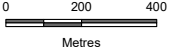
- 2011 Summer Brood Waterfowl Observation
- 2017 Spring Breeding Waterfowl Observation
- 2011 Spring Breeding Waterfowl Observation
- 2017 Fall Staging Waterfowl Observation
- 2019 Songbird Point Count Site

Mine Features

- Open Pit
- Waste Rock Pile

ELC

- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

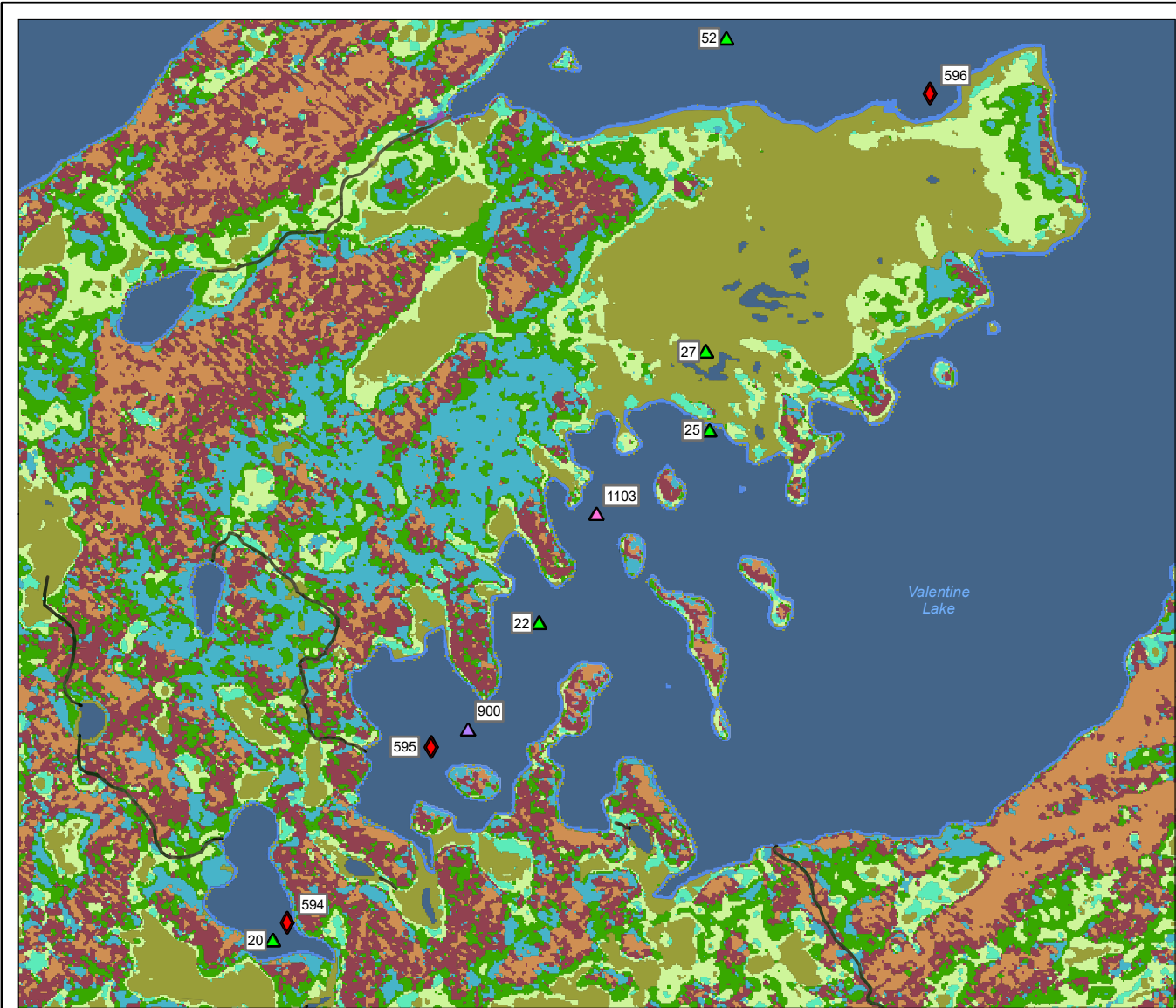
Figure IR50.2p

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_15-p

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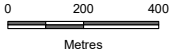
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- ◆ 2011 Summer Brood Waterfowl Observation
- ▲ 2017 Spring Breeding Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation
- ▲ 2017 Fall Staging Waterfowl Observation

ELC

- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

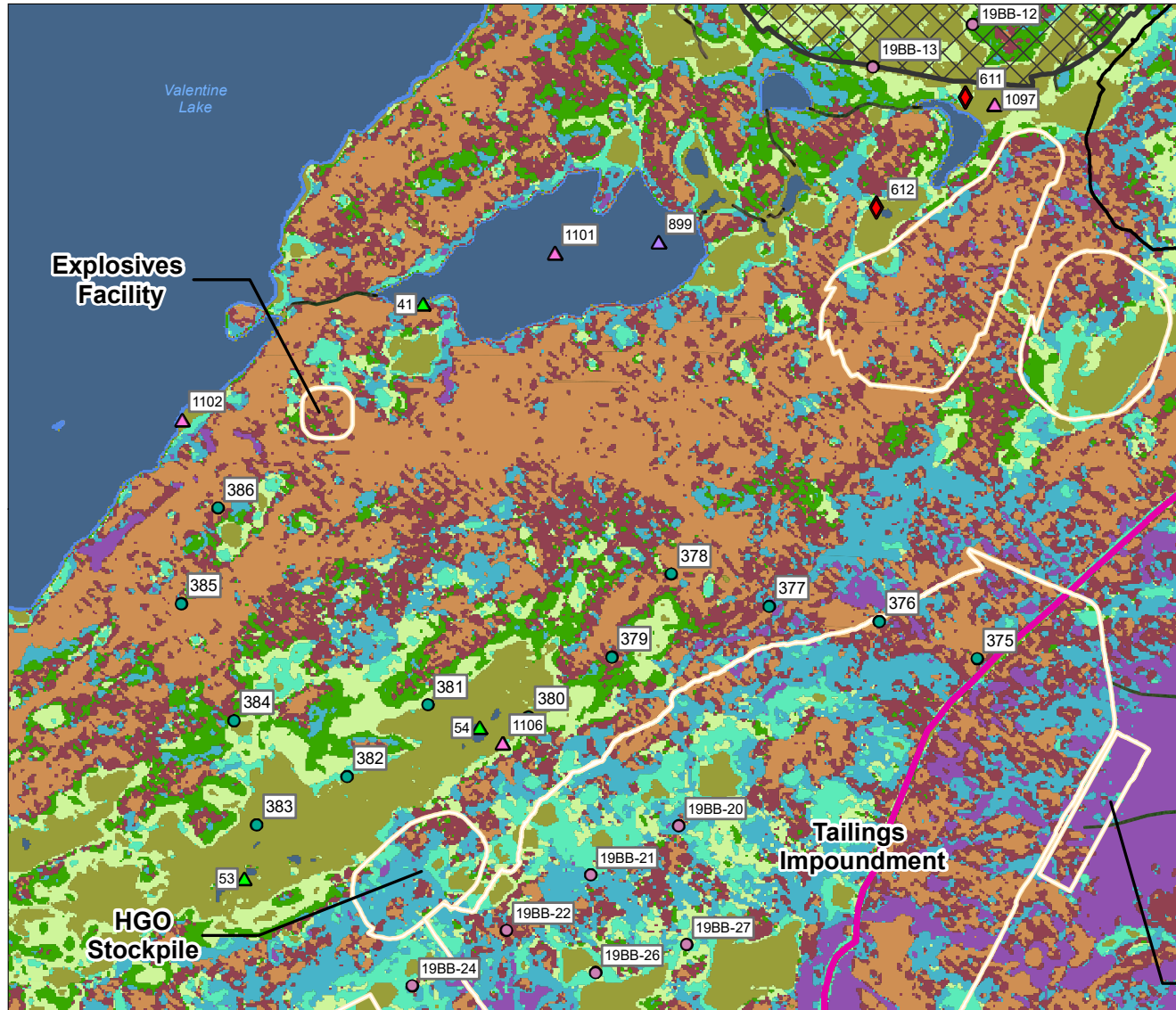
Figure IR50.2q

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_16-q

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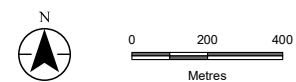
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- 2011 Summer Brood Waterfowl Observation
- 2017 Spring Breeding Waterfowl Observation
- 2011 Spring Breeding Waterfowl Observation
- 2017 Fall Staging Waterfowl Observation
- 2011 Songbird Point Count Site
- 2019 Songbird Point Count Site

- Mine Features**
- Open Pit
 - Waste Rock Pile
 - Other Mine Infrastructure

- ELC**
- Anthropogenic
 - Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

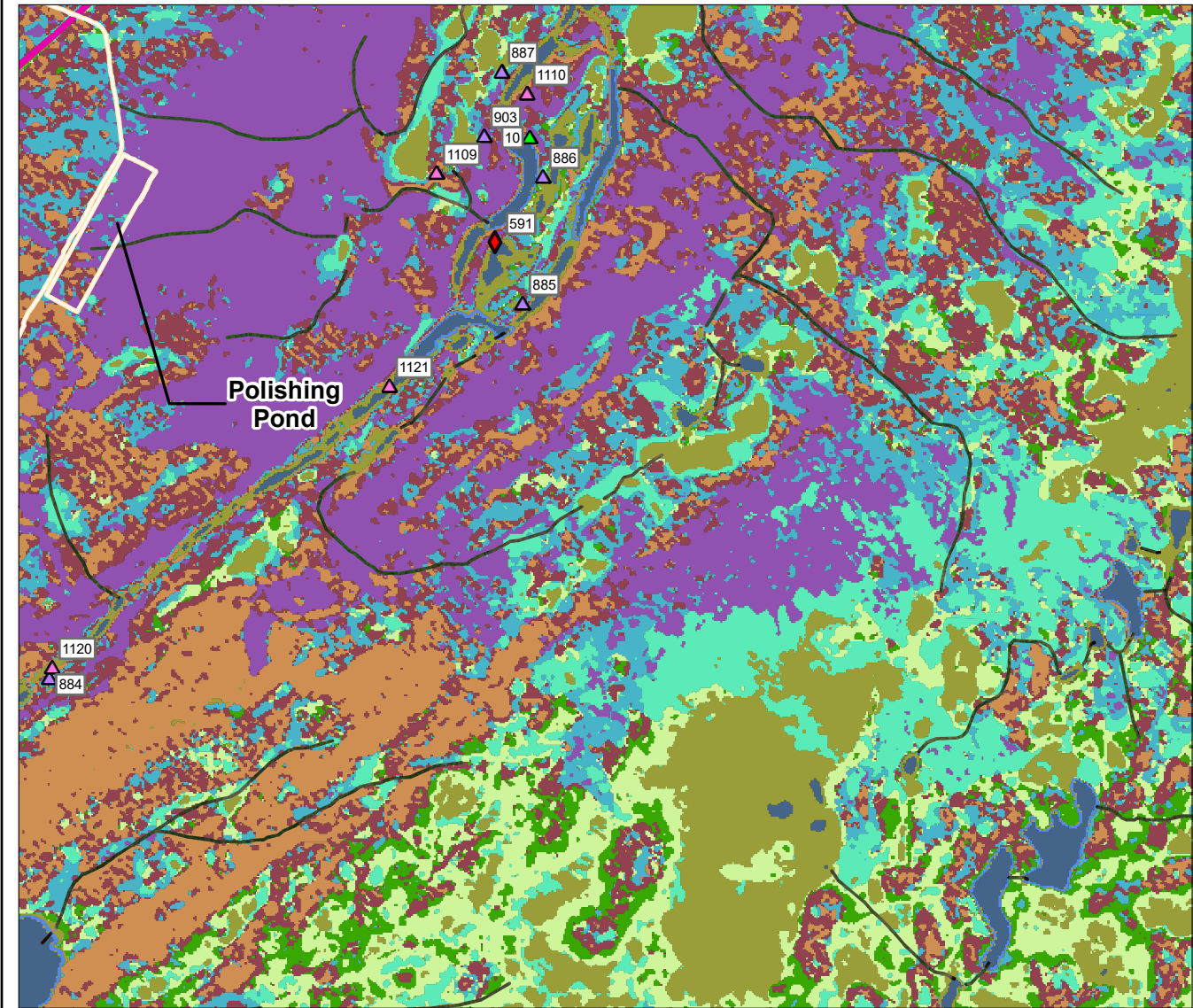
Figure IR50.2r

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_17-r

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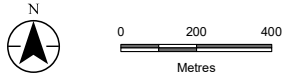
- 2011 Summer Brood Waterfowl Observation
- 2017 Spring Breeding Waterfowl Observation
- 2011 Spring Breeding Waterfowl Observation
- 2017 Fall Staging Waterfowl Observation

Mine Features

- Other Mine Infrastructure

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

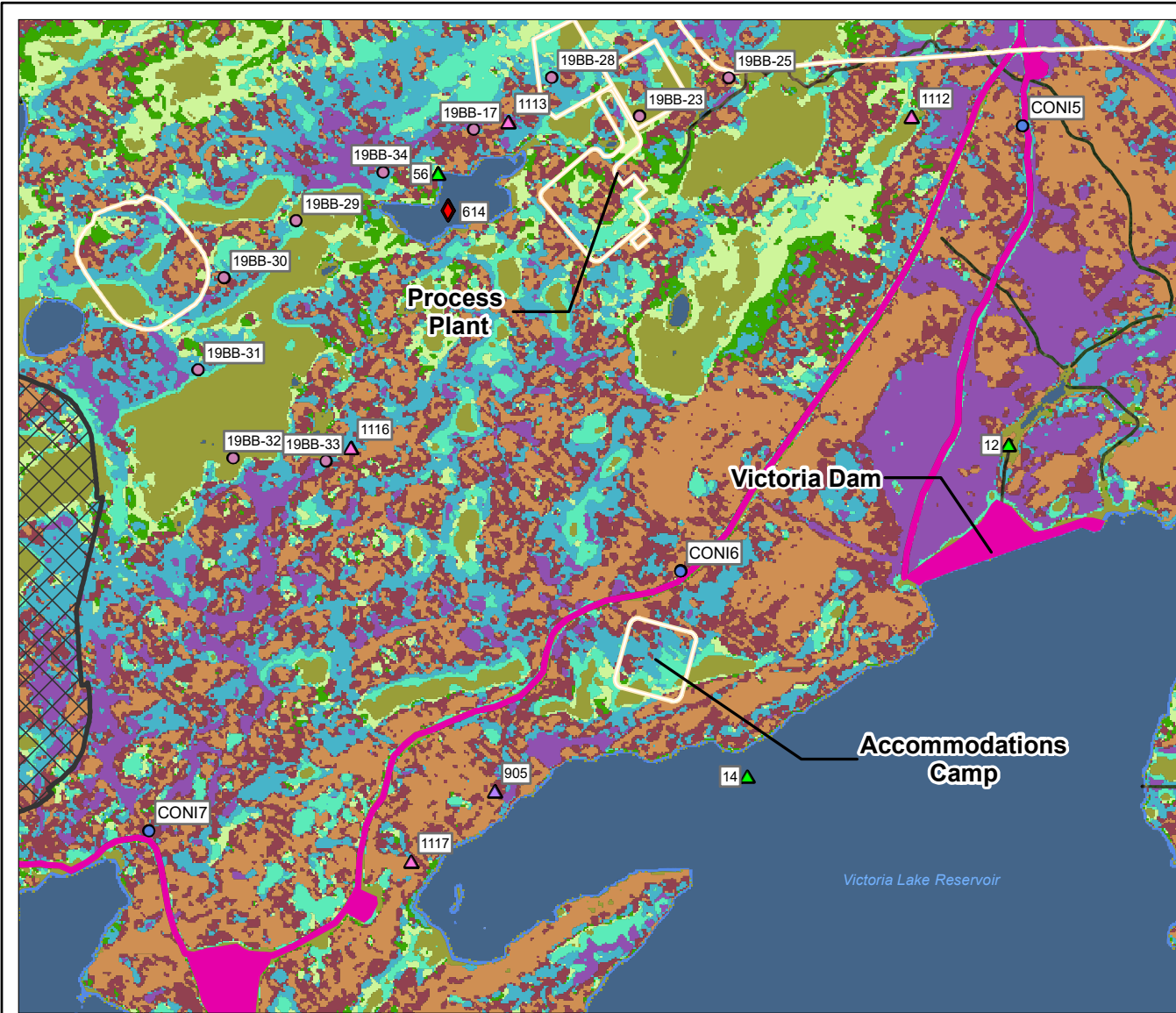
Figure IR50.2s

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_18-s

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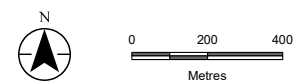
- ◆ 2011 Summer Brood Waterfowl Observation
- ▲ 2017 Spring Breeding Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation
- ▲ 2017 Fall Staging Waterfowl Observation
- 2019 Common Nighthawk Point Count Site
- 2019 Songbird Point Count Site

Mine Features

- ⊠ Waste Rock Pile
- Other Mine Infrastructure

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



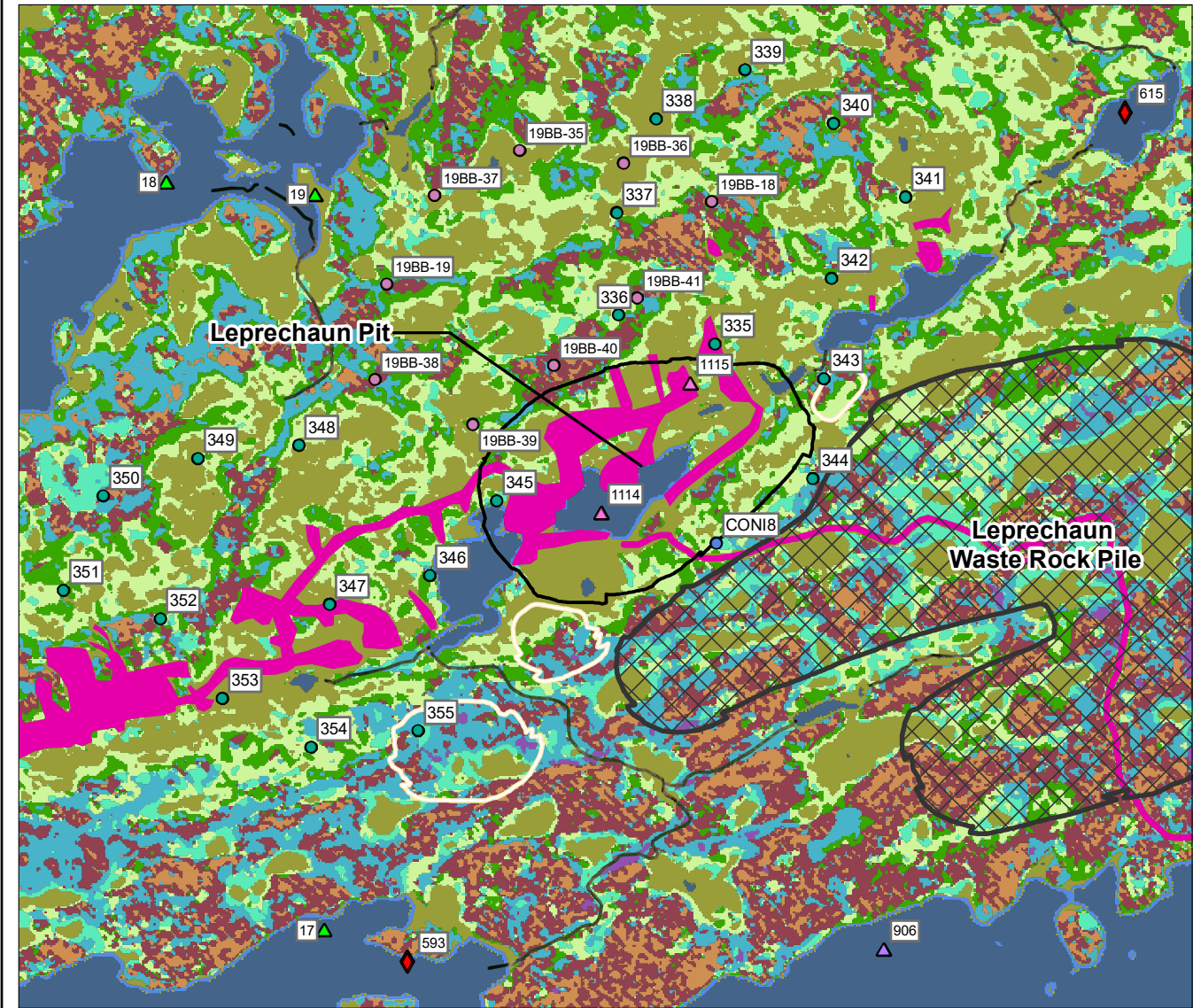
Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2t

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

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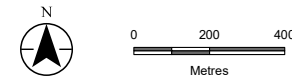
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- ◆ 2011 Summer Brood Waterfowl Observation
- ▲ 2017 Spring Breeding Waterfowl Observation
- ▲ 2011 Spring Breeding Waterfowl Observation
- ▲ 2017 Fall Staging Waterfowl Observation
- 2019 Common Nighthawk Point Count Site
- 2011 Songbird Point Count Site
- 2019 Songbird Point Count Site

- Mine Features**
- Open Pit
 - ▣ Waste Rock Pile
 - Other Mine Infrastructure

- ELC**
- Anthropogenic
 - Shrub Fen/Shrub Bog
 - Open Water
 - Black Spruce Forest
 - Balsam Fir Forest
 - Alder Thicket
 - Kalmia-Black Spruce Forest
 - Mixedwood Forest
 - Regenerating Forest
 - Riparian Transition
 - Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

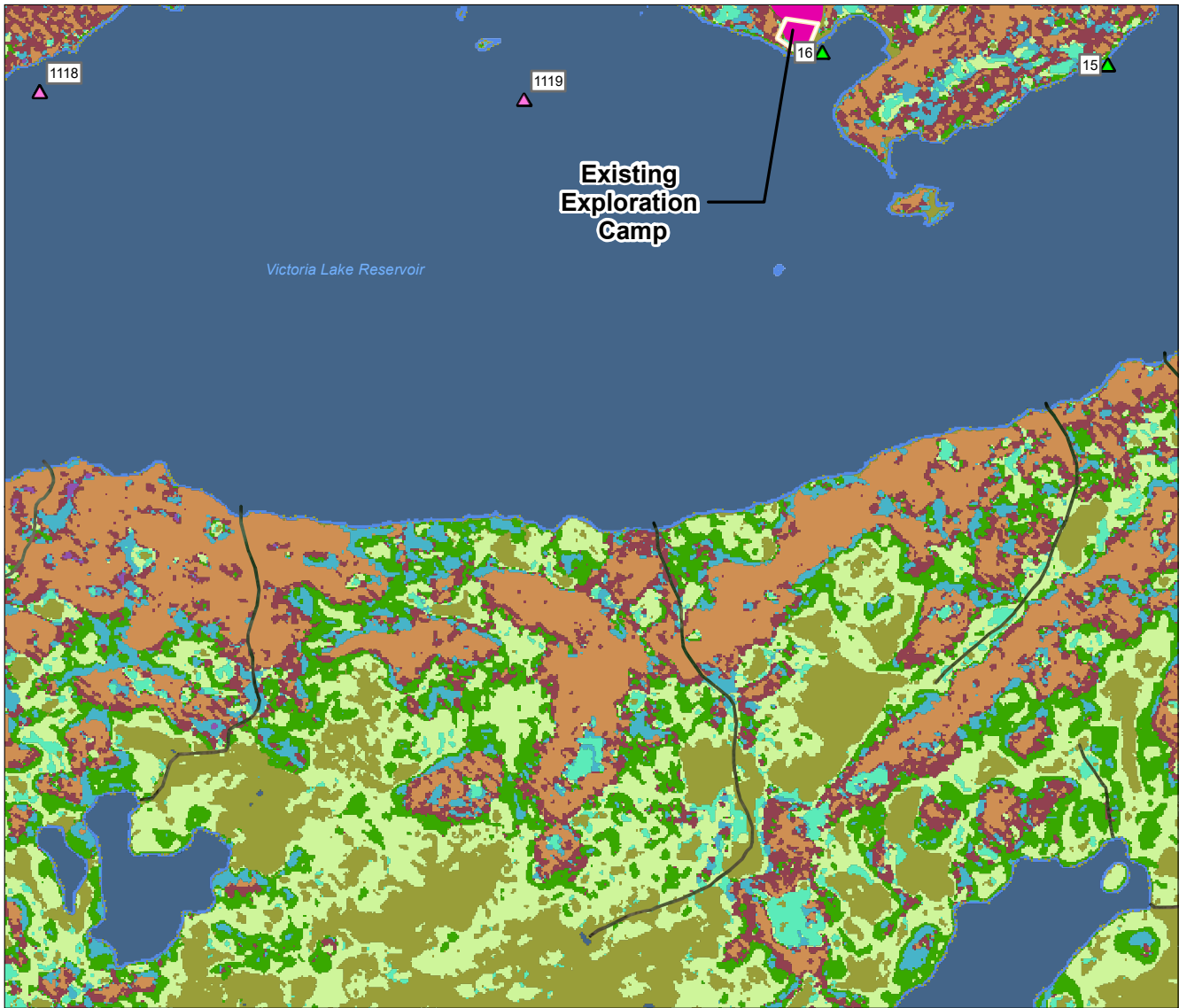
Figure IR50.2u

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_20-u

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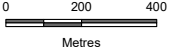
- 2017 Spring Breeding Waterfowl Observation
- 2011 Spring Breeding Waterfowl Observation

Mine Features

- Other Mine Infrastructure

ELC

- Anthropogenic
- Shrub Fen/Shrub Bog
- Open Water
- Black Spruce Forest
- Balsam Fir Forest
- Alder Thicket
- Kalmia-Black Spruce Forest
- Mixedwood Forest
- Regenerating Forest
- Riparian Transition
- Wet Coniferous Forest



Project Location
Valentine Lake
Central Newfoundland, CA

Figure IR50.2v

Client/Project
Marathon Gold Corporation
Valentine Gold Project
Environmental Impact Statement

121416408_IR50_21-v

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