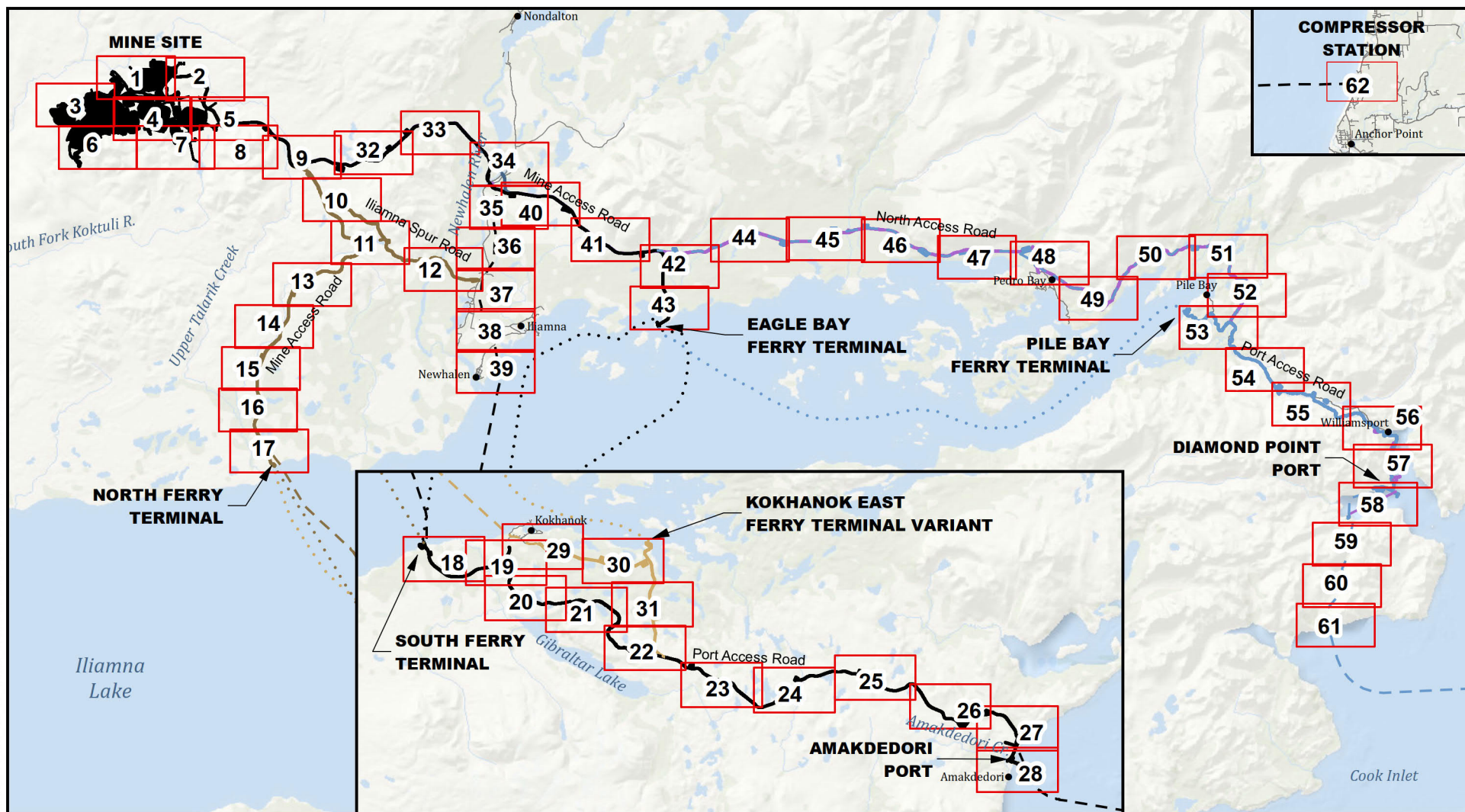


## **K4.22 WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

### **4.22.1 Wetlands and Other Waters Map Series**

Appendix K4.22 comprises the Wetlands and Other Waters Map Series, which includes an Index Sheet followed by Figure K4.22-1 through Figure K4.22-62.



Source: PLP 2020 RFI-168; PLP 2019 RFI-153



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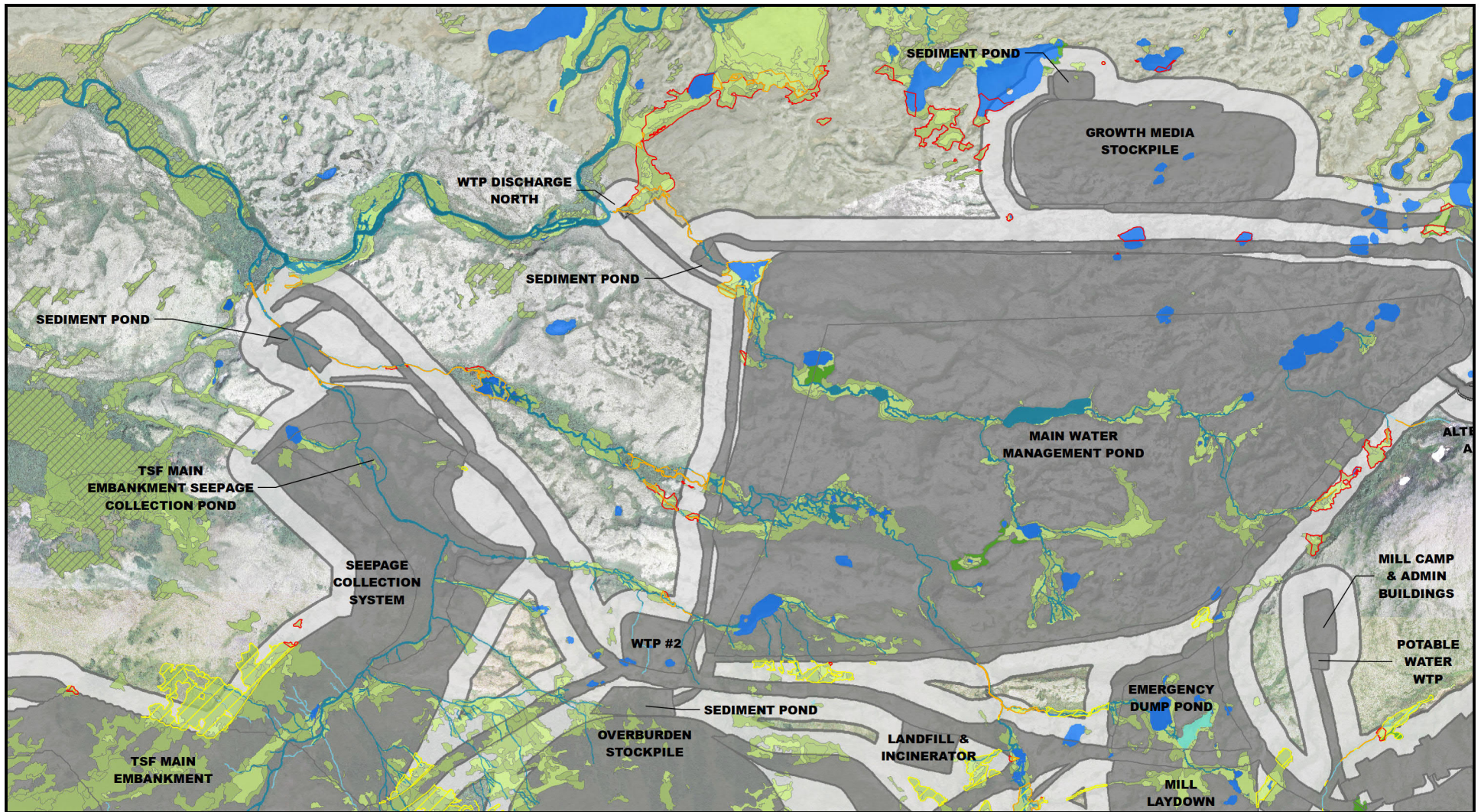
- K4.22 Page Number
- Action Alternatives**
- Ferry Routes
- Natural Gas Pipelines
- Alternative 1a
- Alternative 1
- Alternative 1 Kokhanok East Ferry Terminal Variant
- Alternative 2
- Alternative 2 Newhalen River North Crossing Variant
- Alternative 3

**PEBBLE PROJECT EIS**

**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**FIGURE K4.22 INDEX SHEET**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

High Drawdown (S0; End of Mining)

Moderate Drawdown (S0; End of Mining)

Fragmented

#### NWI Classes

Aquatic Bed

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

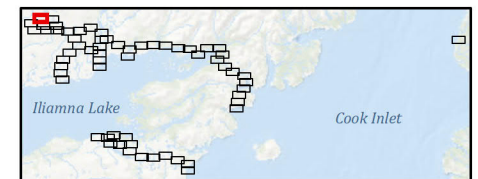
Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

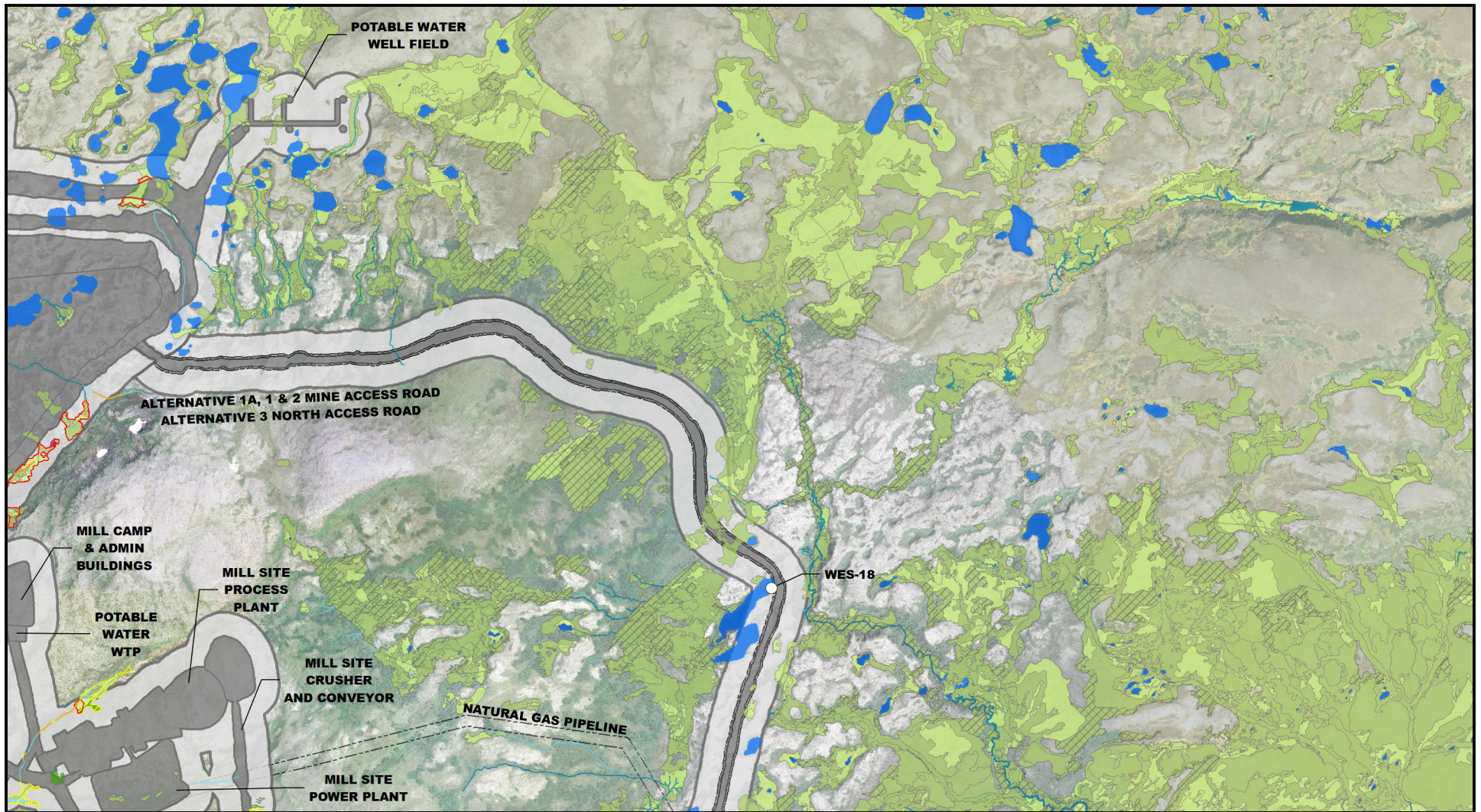
Wetland/Upland Mosaic

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

High Drawdown  
(S0; End of Mining)

Moderate Drawdown  
(S0; End of Mining)

Fragmented

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

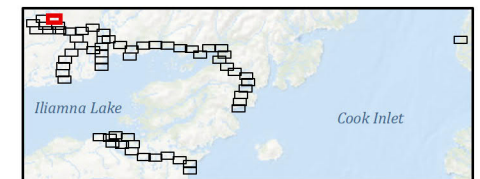
■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent

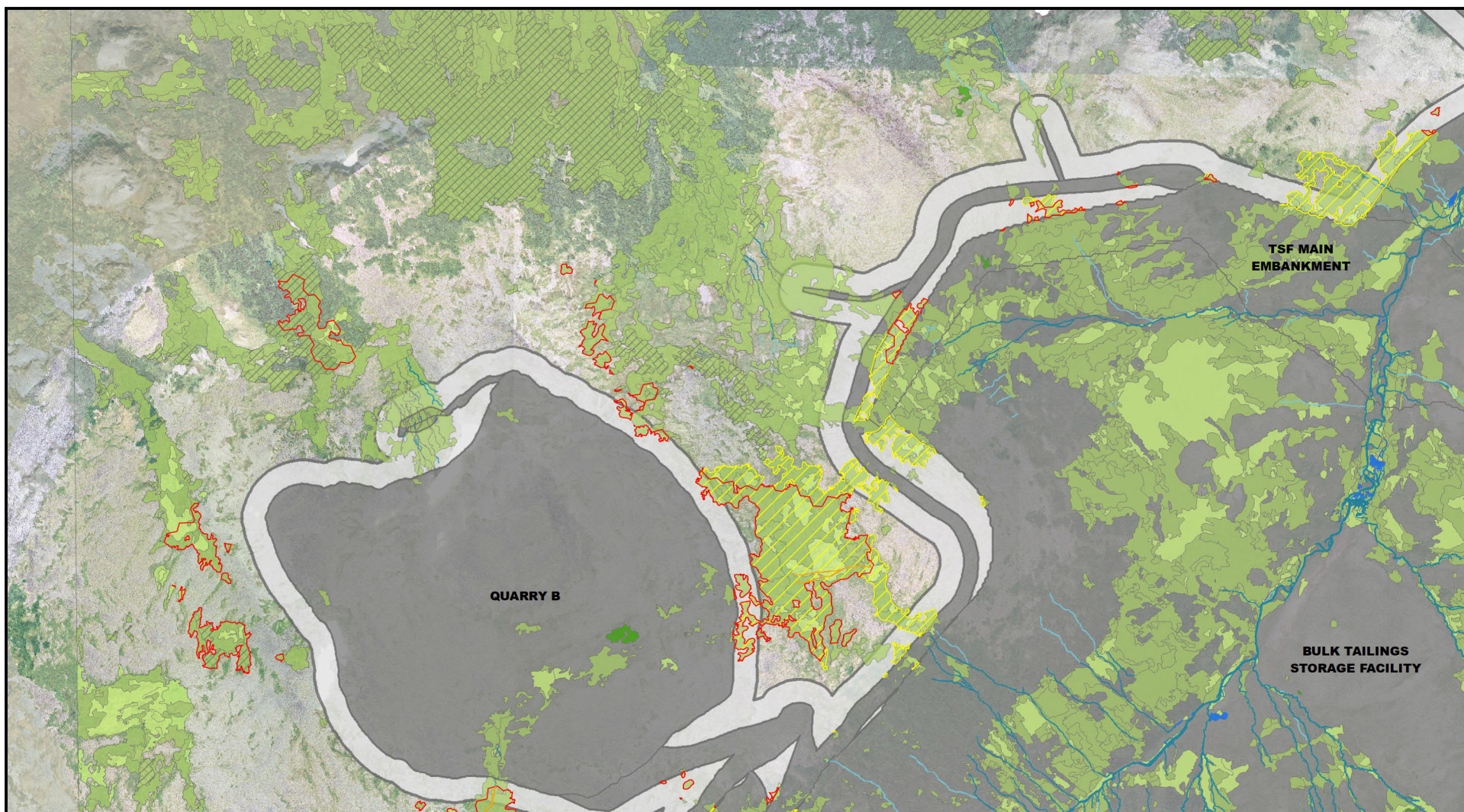


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**FIGURE K4.22-2 of 62**

**PEBBLE PROJECT EIS**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

- Fugitive Dust

#### High Drawdown (S0; End of Mining)

- Moderate Drawdown (S0; End of Mining)

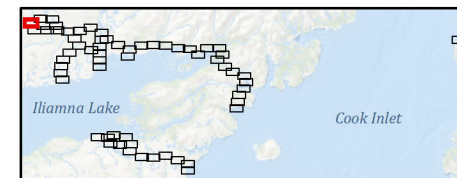
#### Fragmented

- 

#### NWI Classes

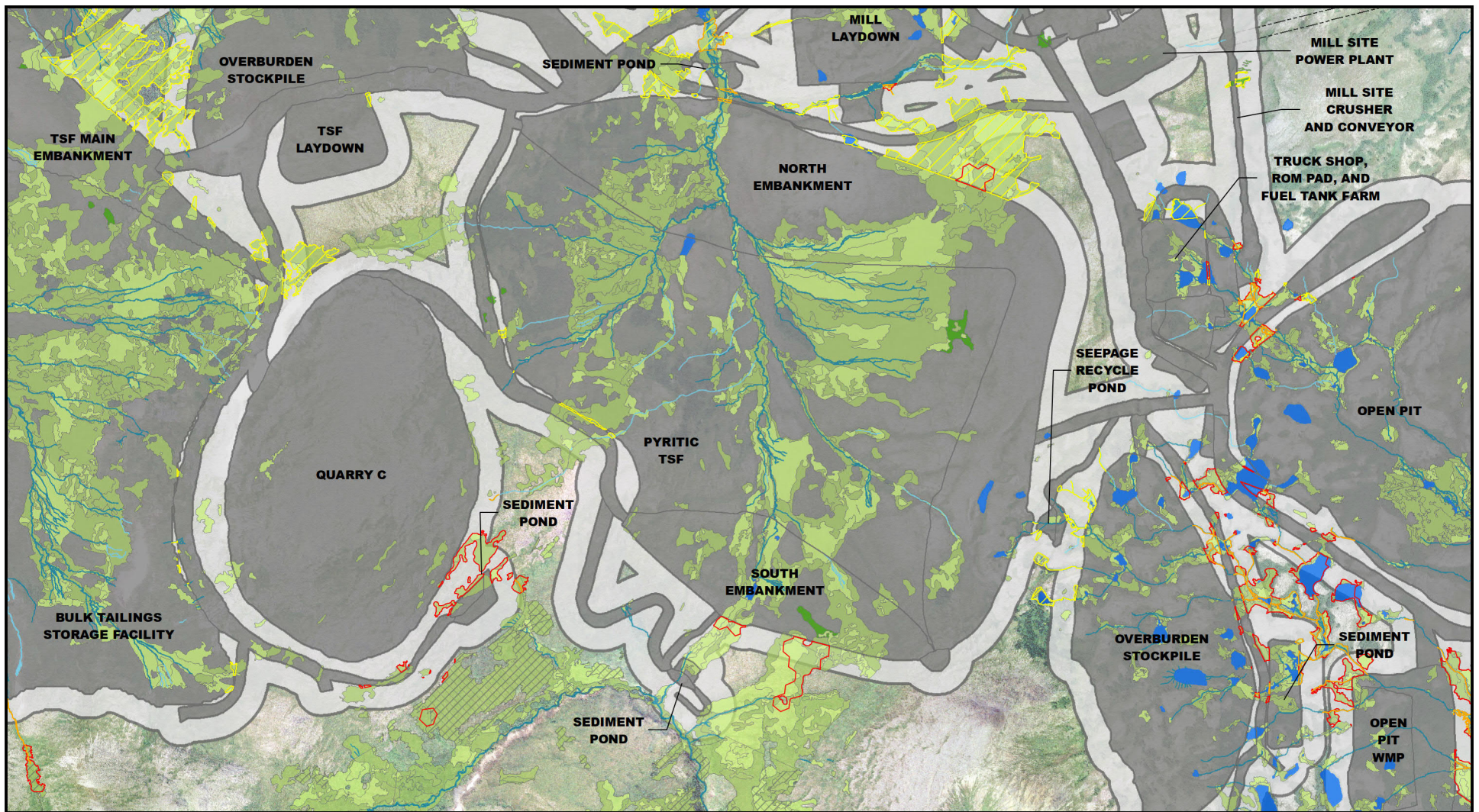
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

High Drawdown  
(S0; End of Mining)

Moderate Drawdown  
(S0; End of Mining)

Fragmented

#### NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

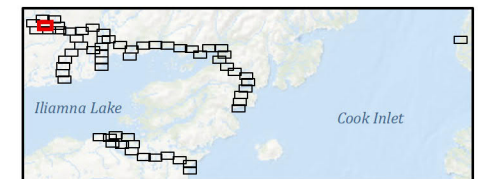
Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Wetland/Upland Mosaic

Uplands/Mapped Wetlands Extent

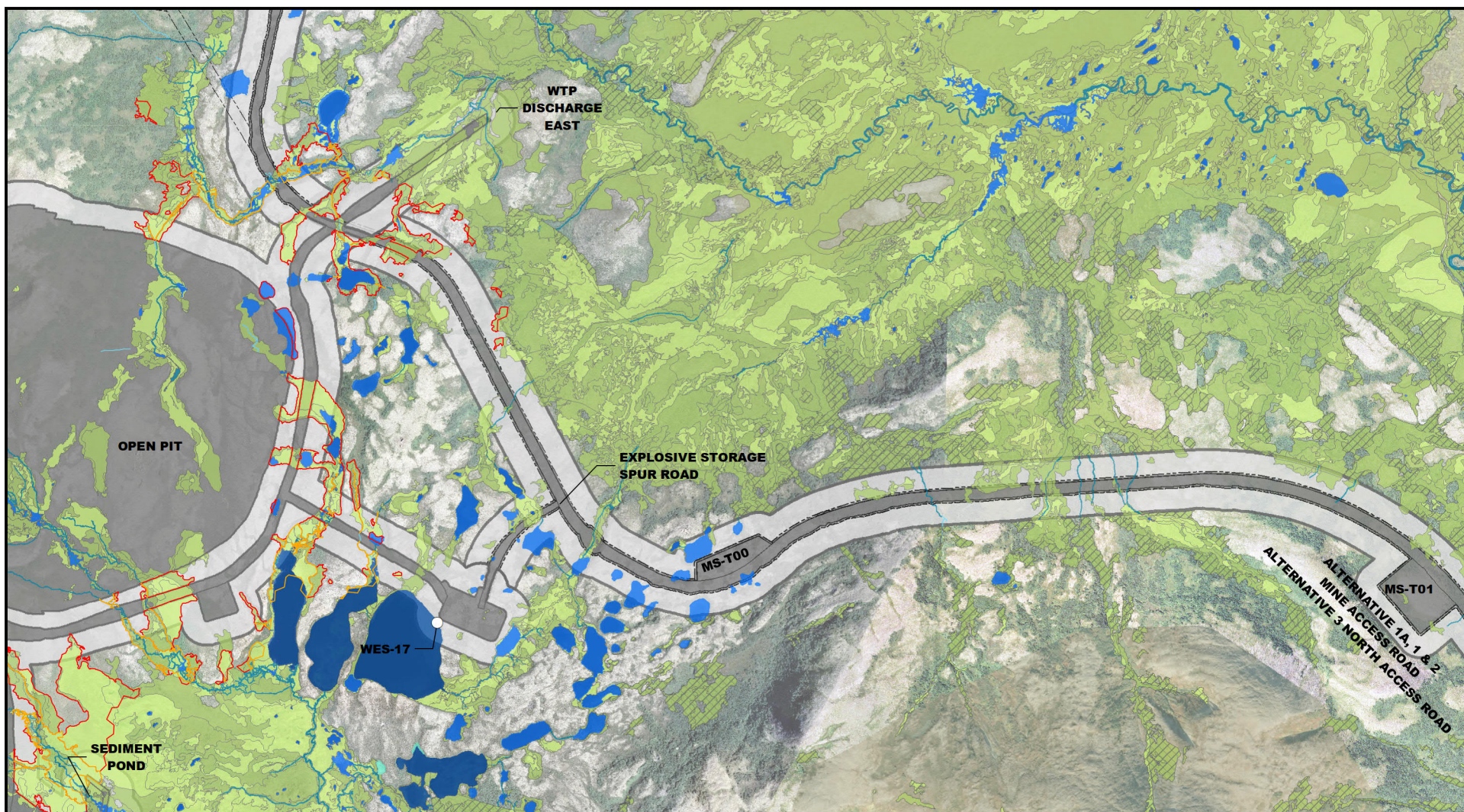


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-4 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

High Drawdown (S0; End of Mining)

Moderate Drawdown (S0; End of Mining)

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

■ Evergreen Shrubs

■ Ponds

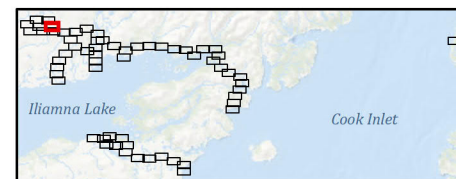
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

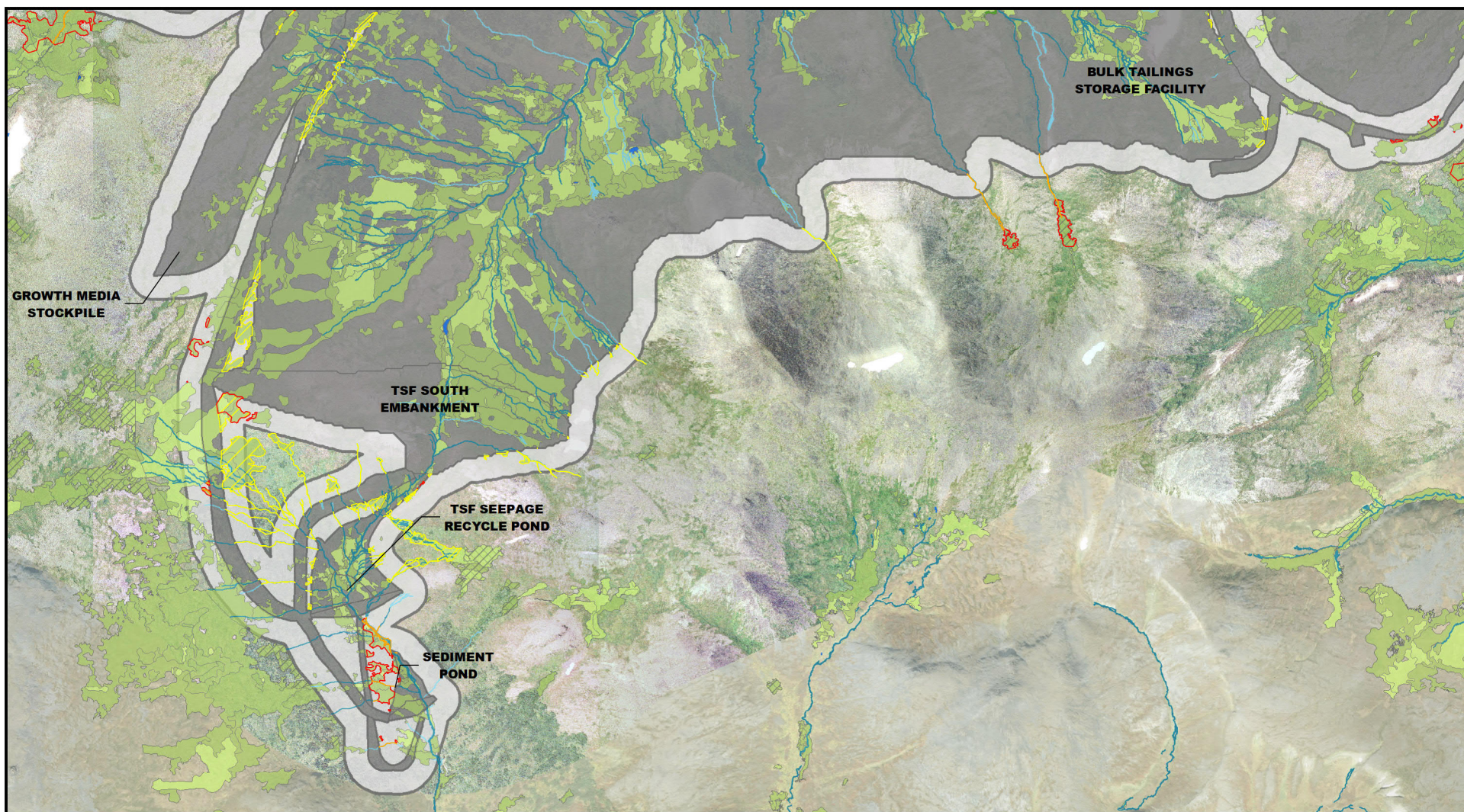
■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

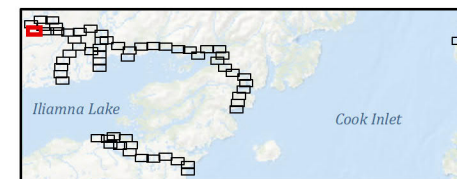
- Fugitive Dust

- High Drawdown (S0; End of Mining)
- Moderate Drawdown (S0; End of Mining)
- Fragmented

#### NWI Classes

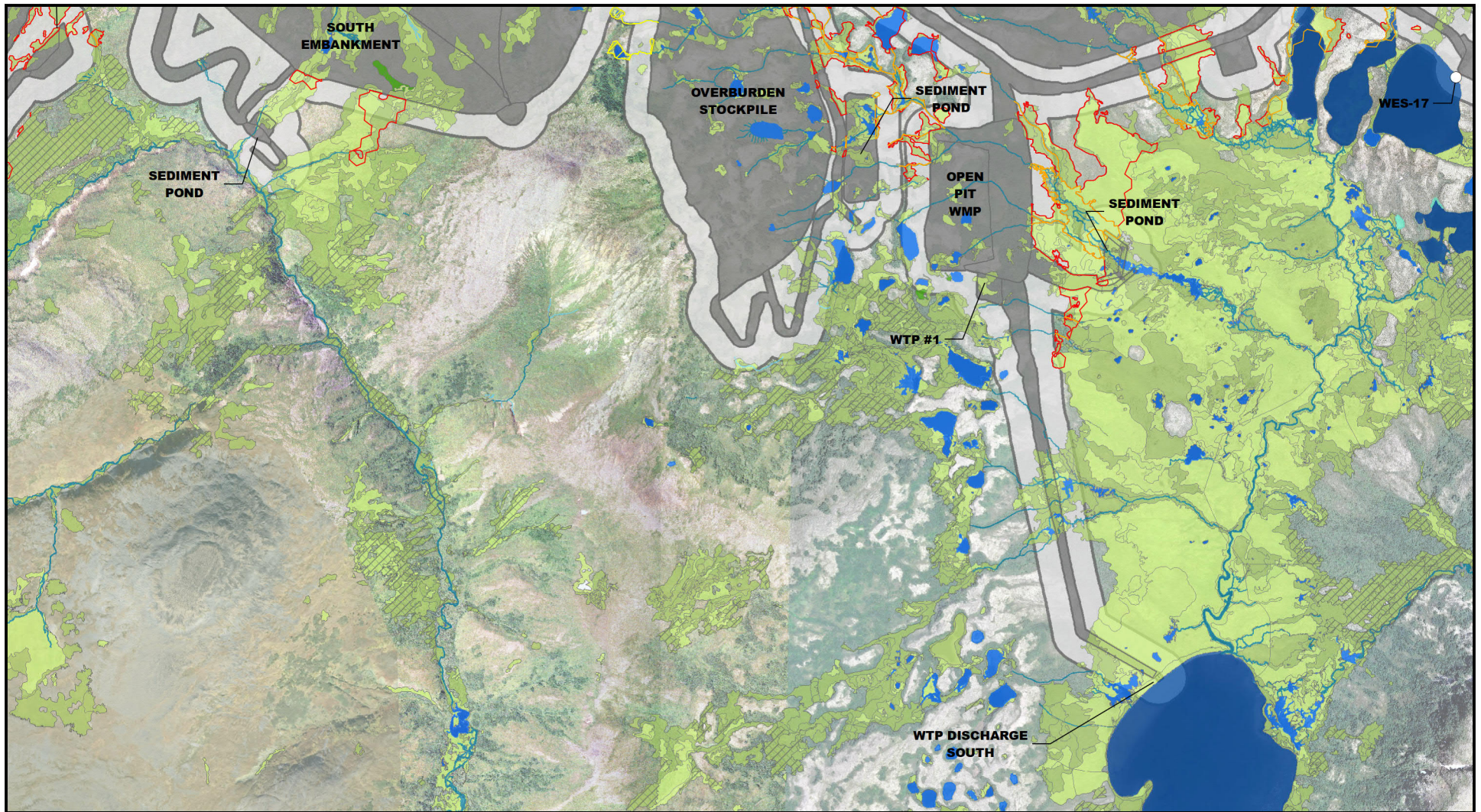
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

High Drawdown  
(S0; End of Mining)

Moderate Drawdown  
(S0; End of Mining)

Fragmented

**NWI Classes**

Aquatic Bed

Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

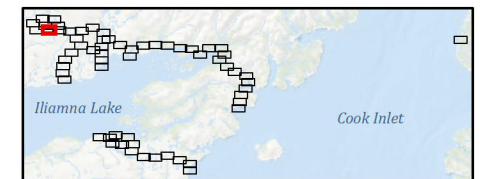
Lakes

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

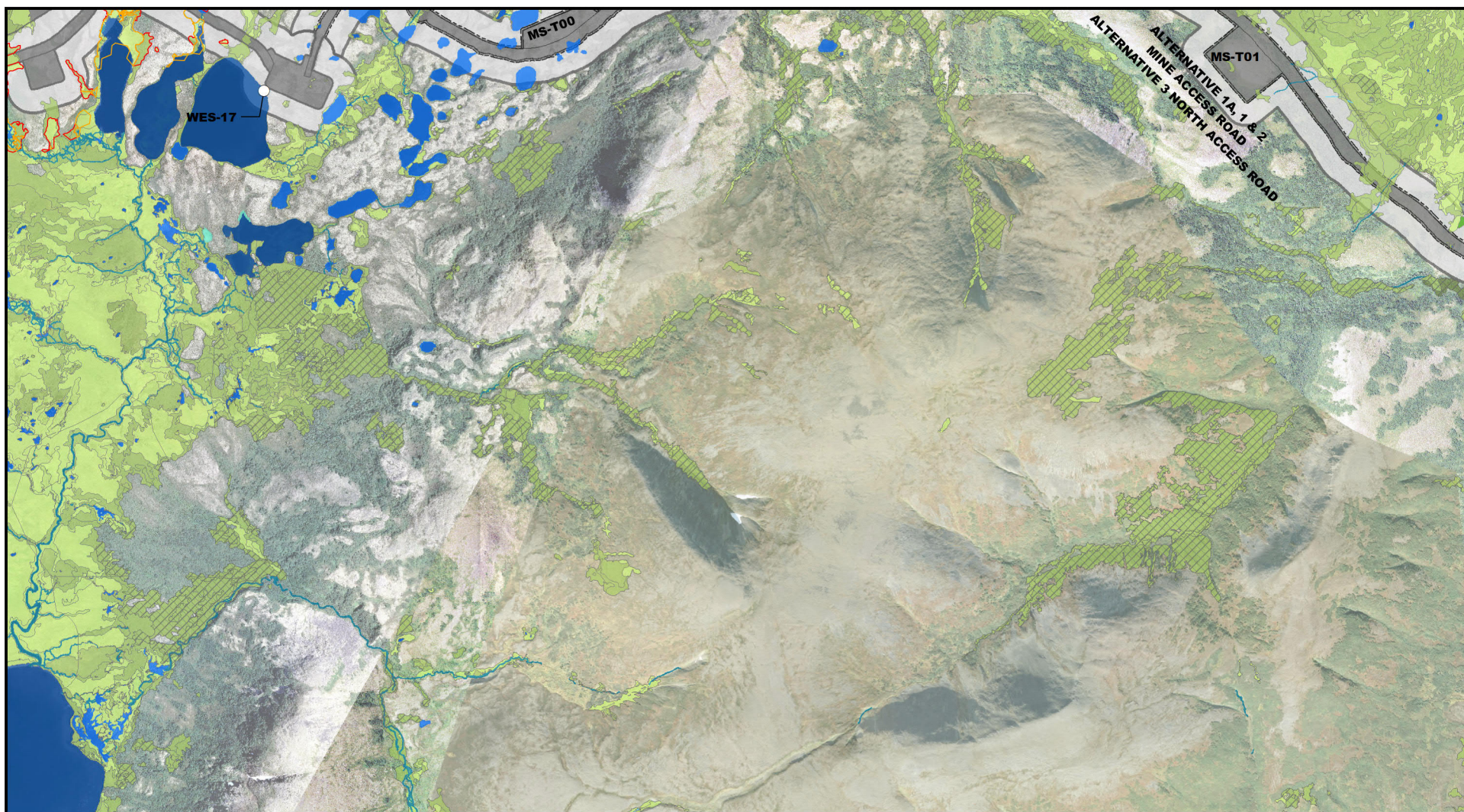
Wetland/Upland Mosaic

Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

High Drawdown

(S0; End of Mining)

Moderate Drawdown

(S0; End of Mining)

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

■ Evergreen Shrubs

■ Ponds

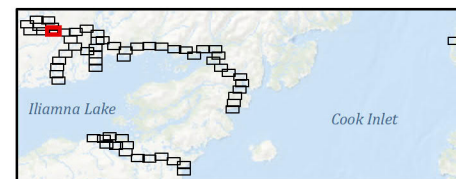
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

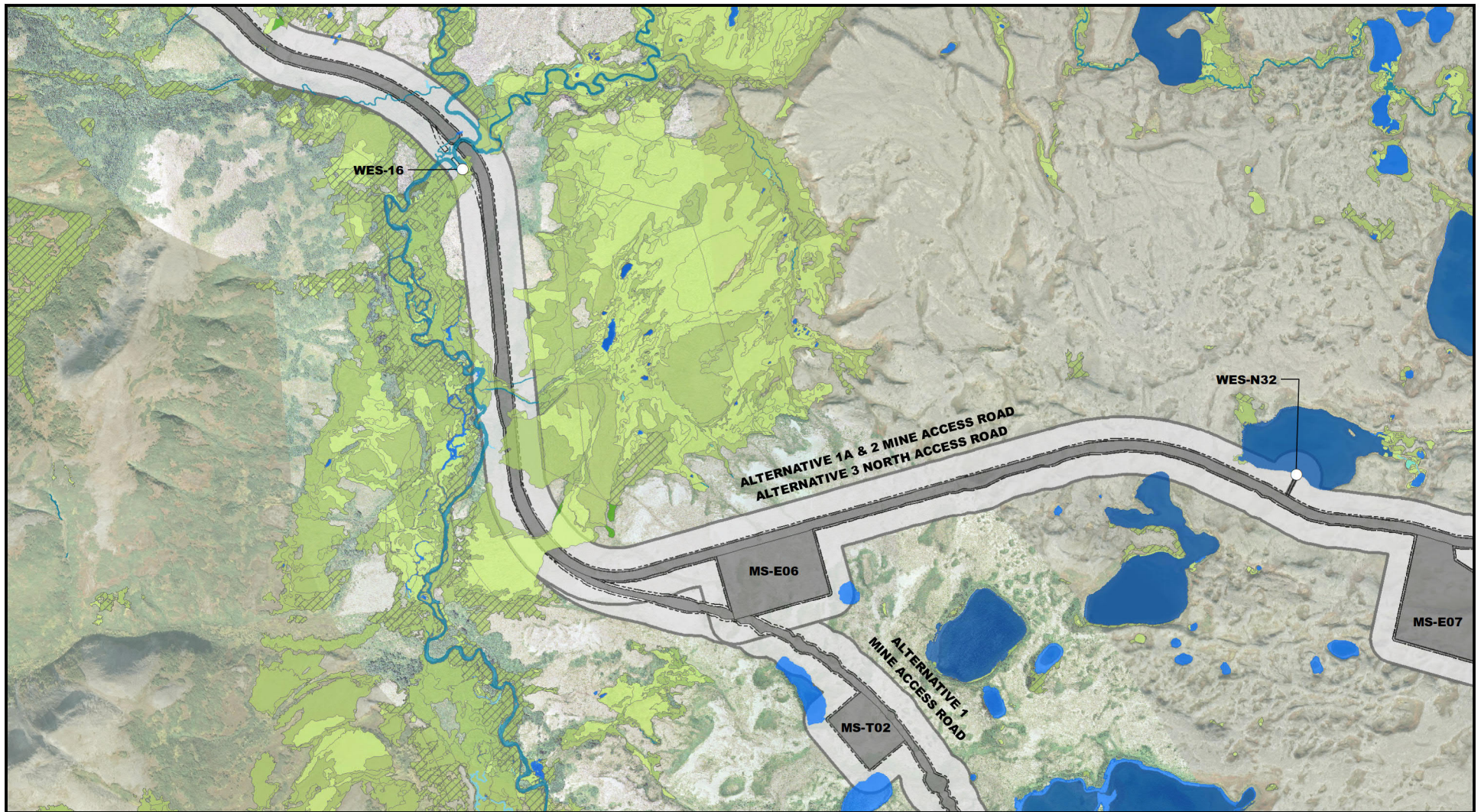
■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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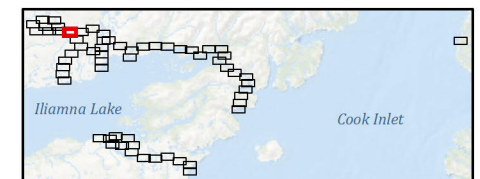
1,000 0 1,000 2,000  
Feet

- Water Extraction Site
- Direct Impact**
- Permanent
- Temporary
- Indirect Impact**
- Fugitive Dust

#### NWI Classes

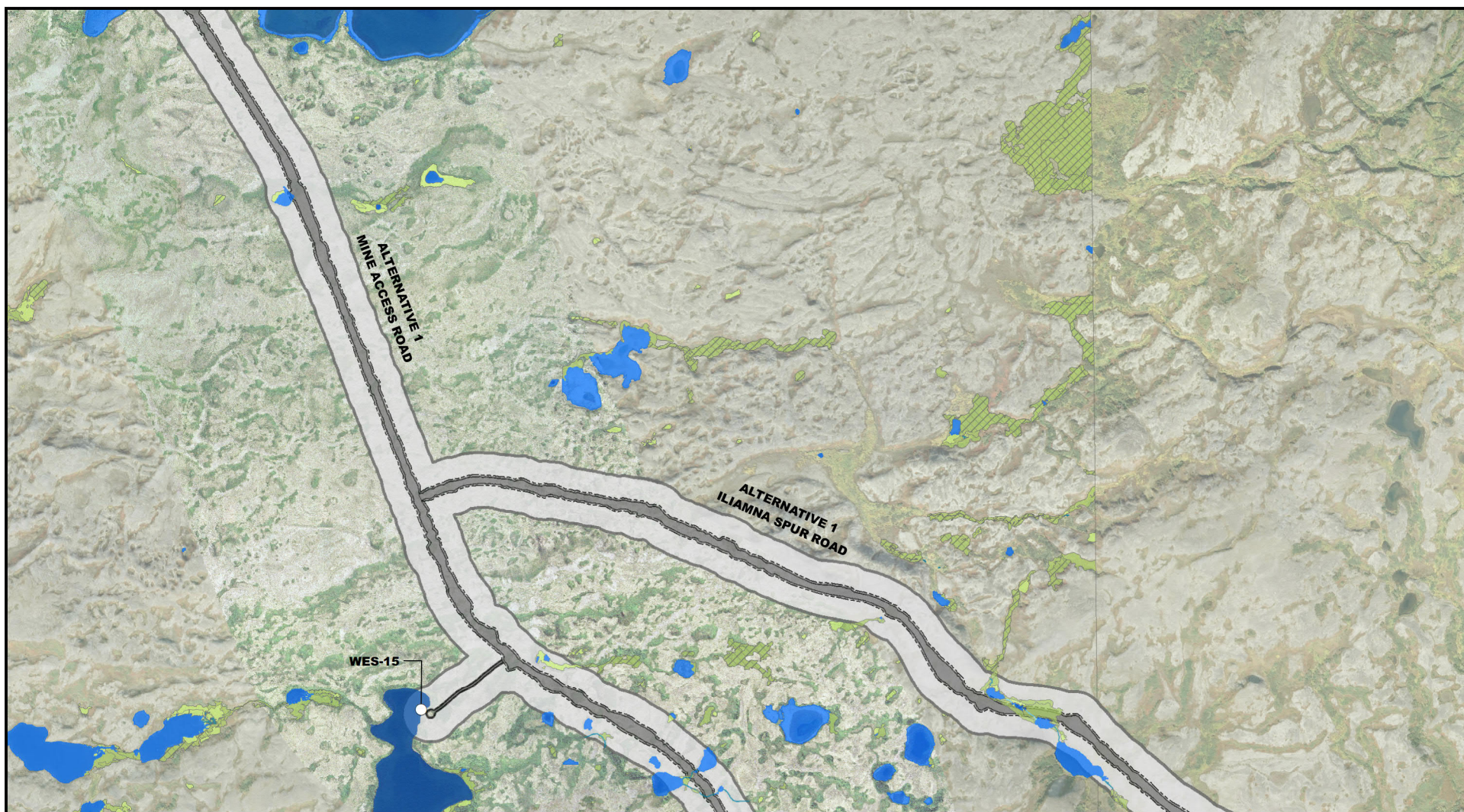
- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Ponds

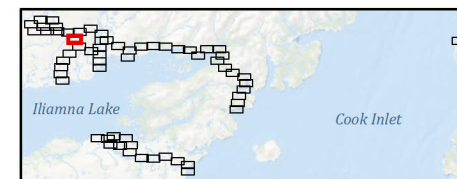
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-10 of 62

PEBBLE PROJECT EIS





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Ponds

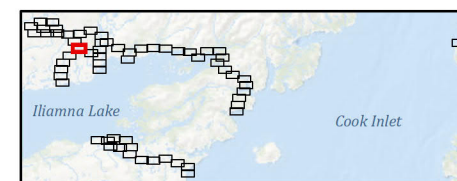
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent

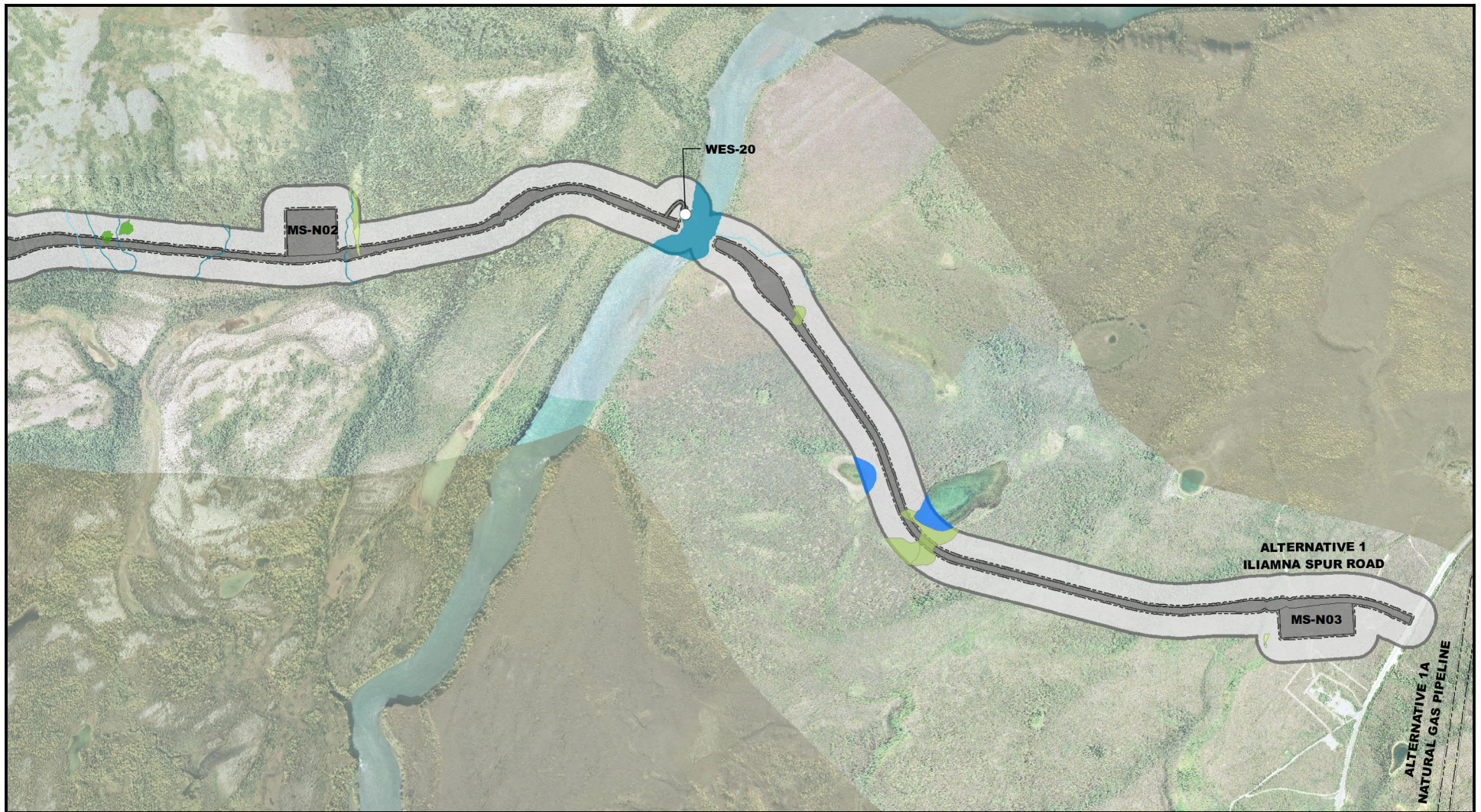


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-11 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

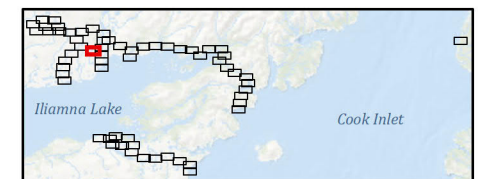
■ Evergreen Shrubs

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

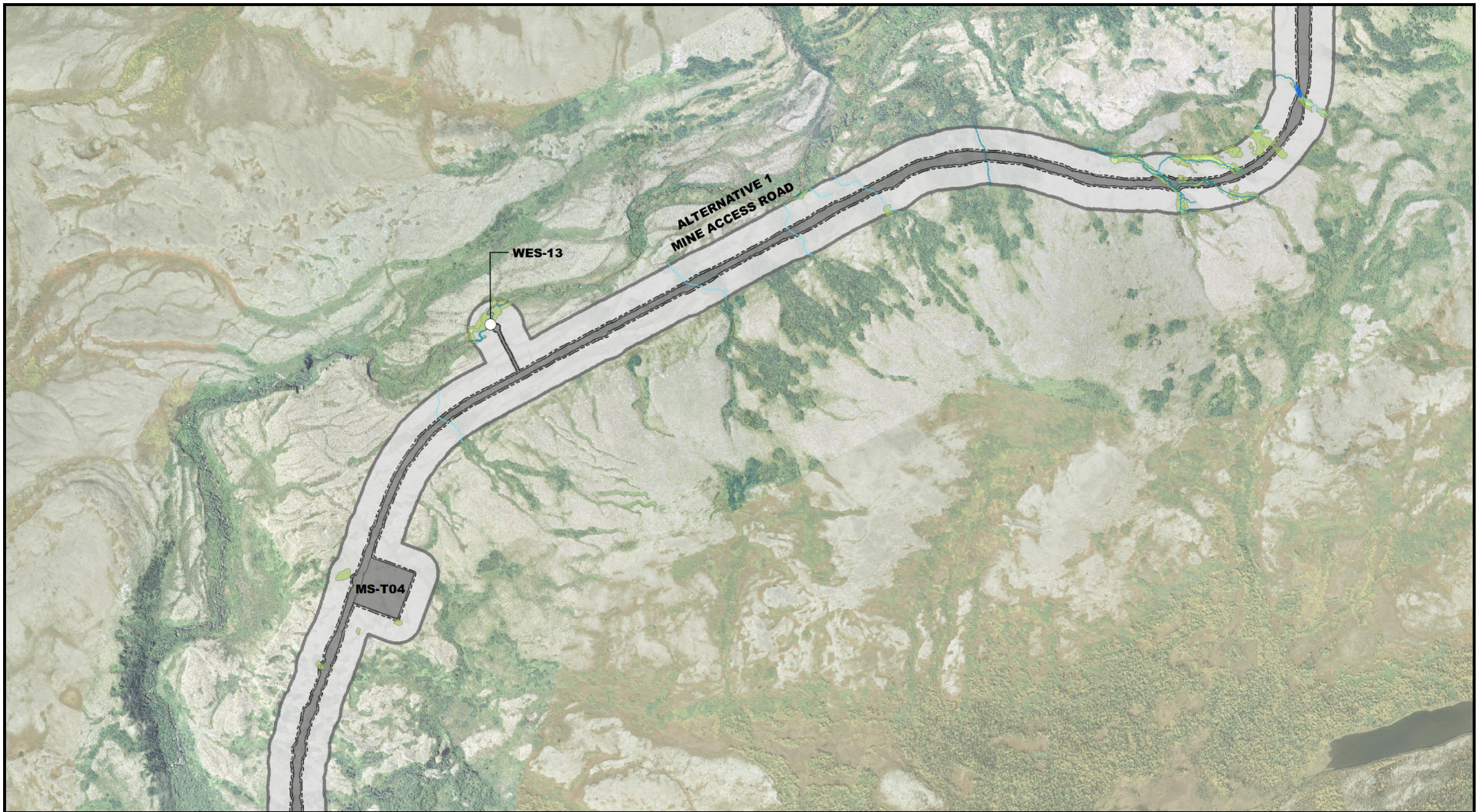


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-12 of 62

PEBBLE PROJECT EIS





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153

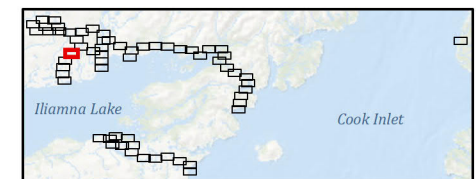


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1,000 0 1,000 2,000  
Feet

- |                         |                               |                                |
|-------------------------|-------------------------------|--------------------------------|
| ○ Water Extraction Site | <b>NWI Classes</b>            | Ponds                          |
| <b>Direct Impact</b>    | Herbaceous                    | Rivers/Streams (Intermittent)  |
| Permanent               | Broad Leaved Deciduous Shrubs | Rivers/Streams (Perennial)     |
| Temporary               |                               | Uplands/Mapped Wetlands Extent |
| <b>Indirect Impact</b>  |                               |                                |
| Fugitive Dust           |                               |                                |

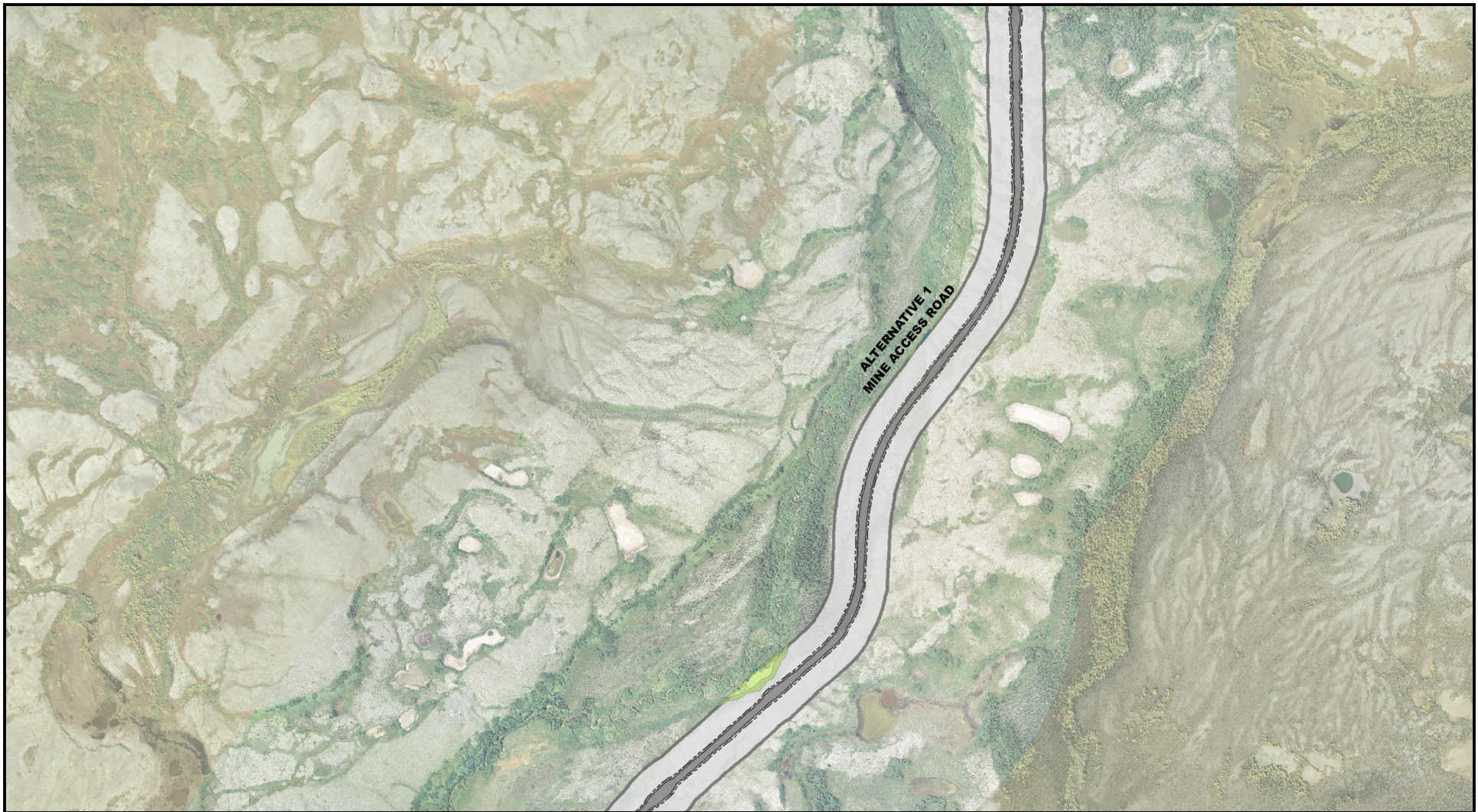


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-13 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

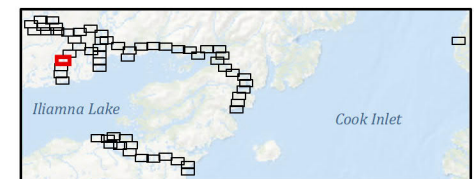
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

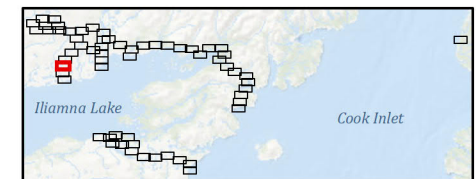
■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Ponds

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

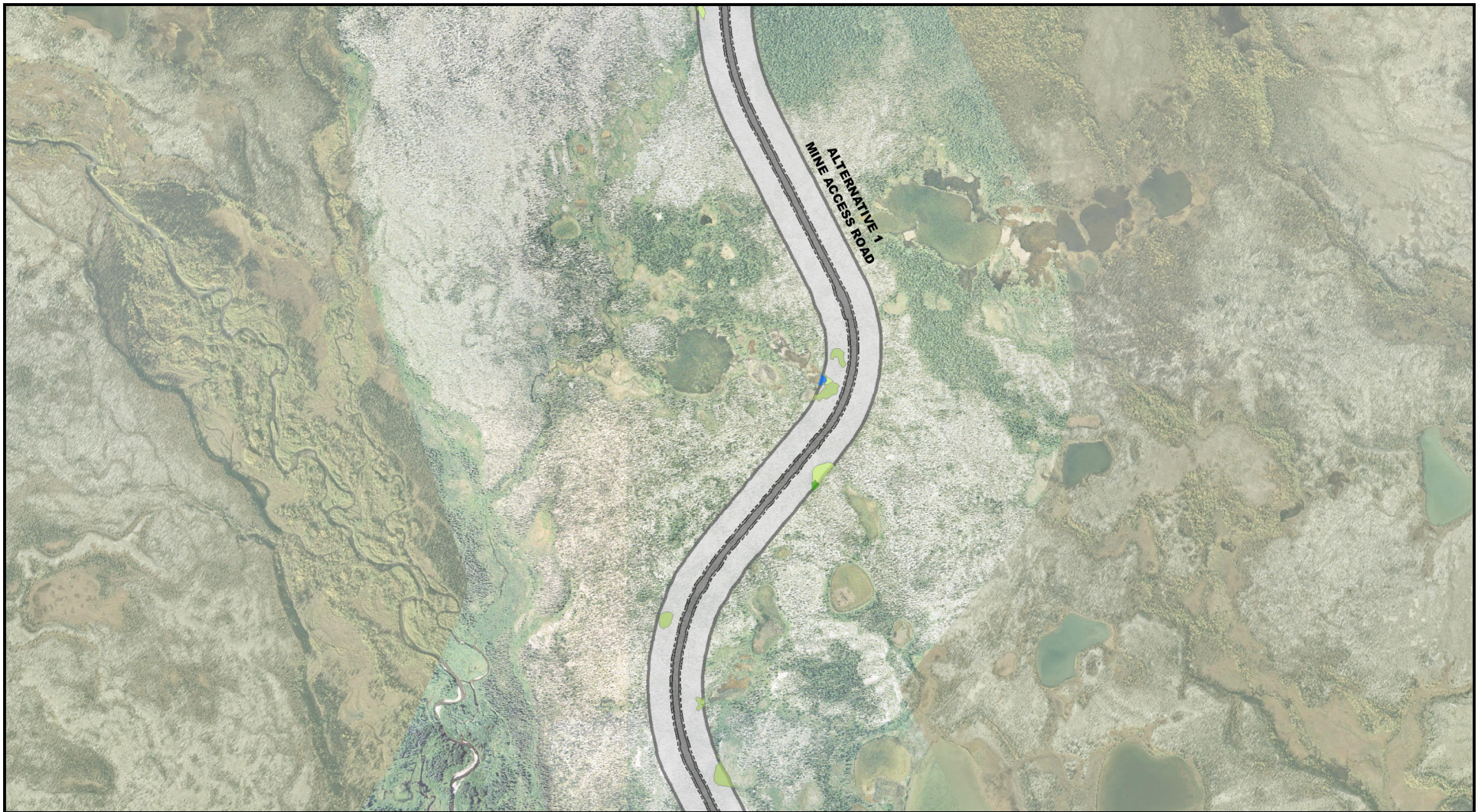


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**FIGURE K4.22-15 of 62**

**PEBBLE PROJECT EIS**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000



Feet

**Direct Impact**

Permanent

Temporary

**Indirect Impact**

Fugitive Dust

**NWI Classes**

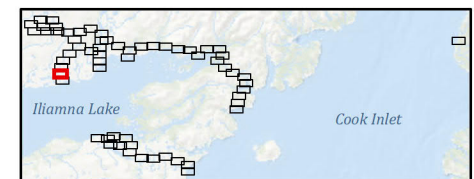
Herbaceous

Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

Uplands/Mapped Wetlands Extent

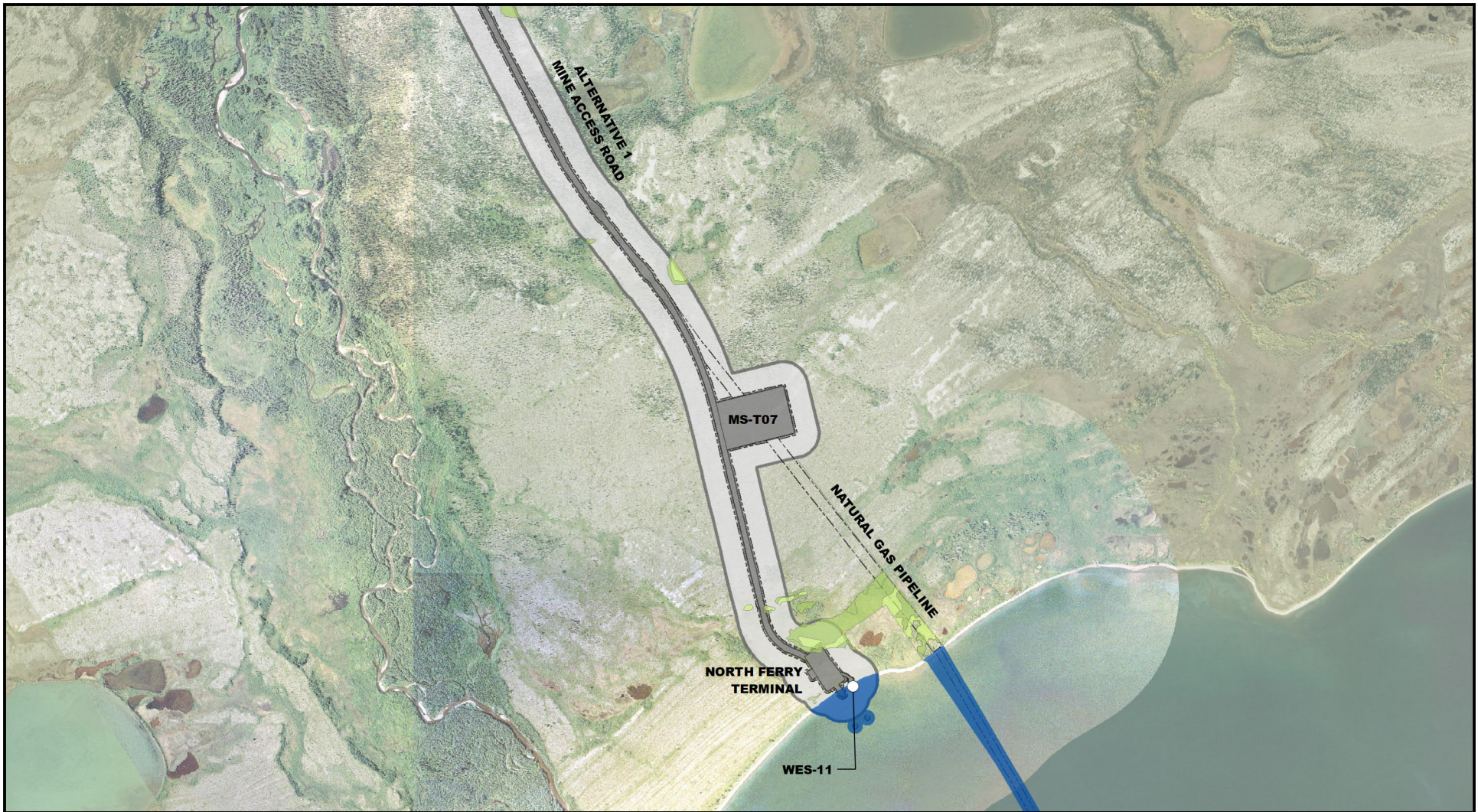


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-16 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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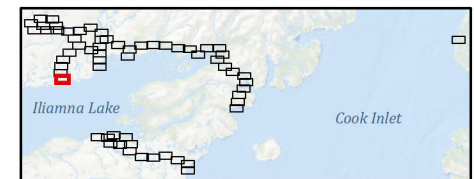


1,000 0 1,000 2,000



Feet

- |                         |                    |                                  |
|-------------------------|--------------------|----------------------------------|
| ○ Water Extraction Site | <b>NWI Classes</b> | ■ Broad Leaved Deciduous Shrubs  |
| <b>Direct Impact</b>    | ■ Herbaceous       | ■ Lakes                          |
| ■ Permanent             |                    | ○ Uplands/Mapped Wetlands Extent |
| ■ Temporary             |                    |                                  |
| <b>Indirect Impact</b>  |                    |                                  |
| ■ Fugitive Dust         |                    |                                  |



Iliamna Lake

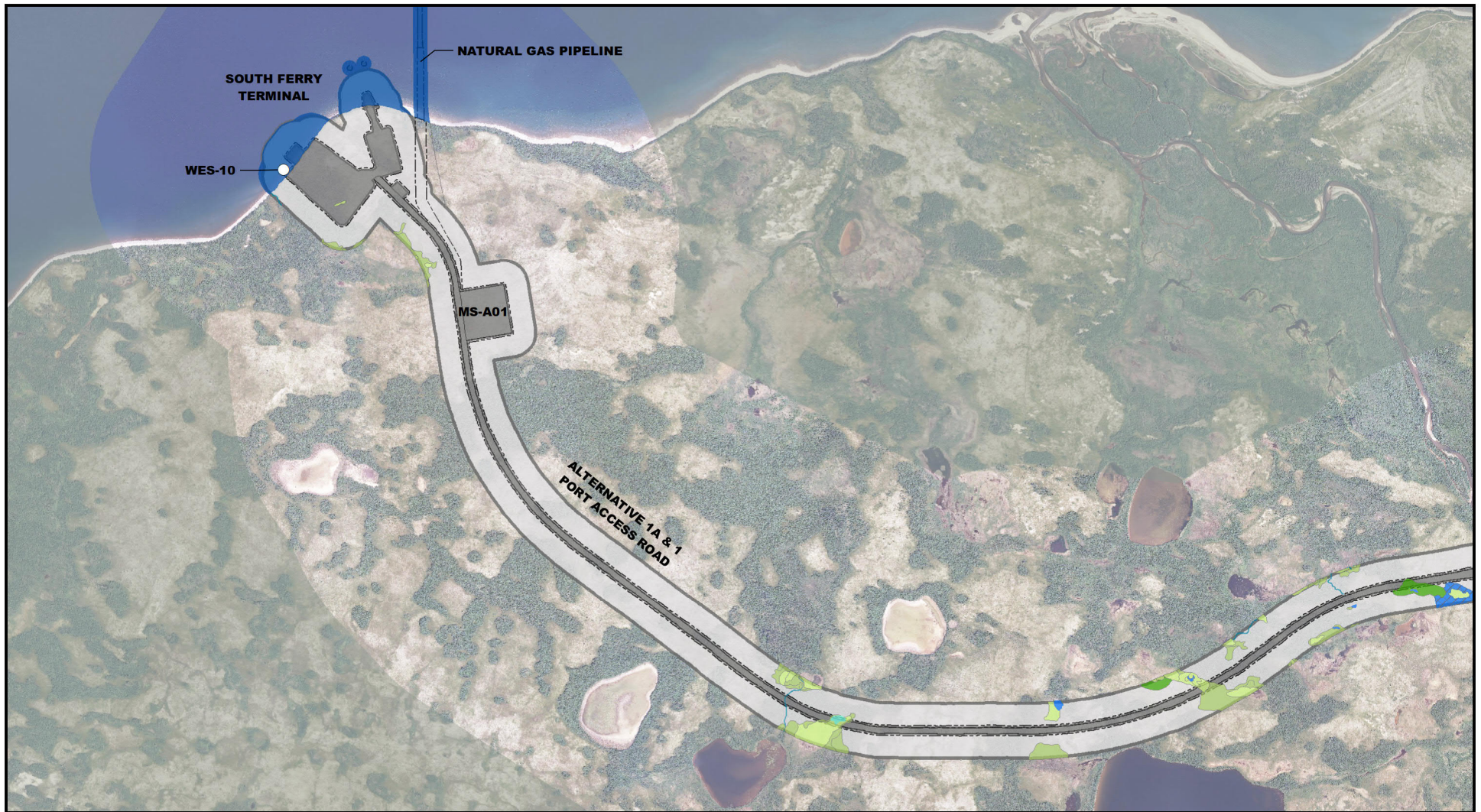
Cook Inlet

WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-17 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

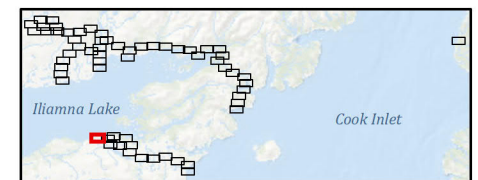
■ Ponds

■ Lakes

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent

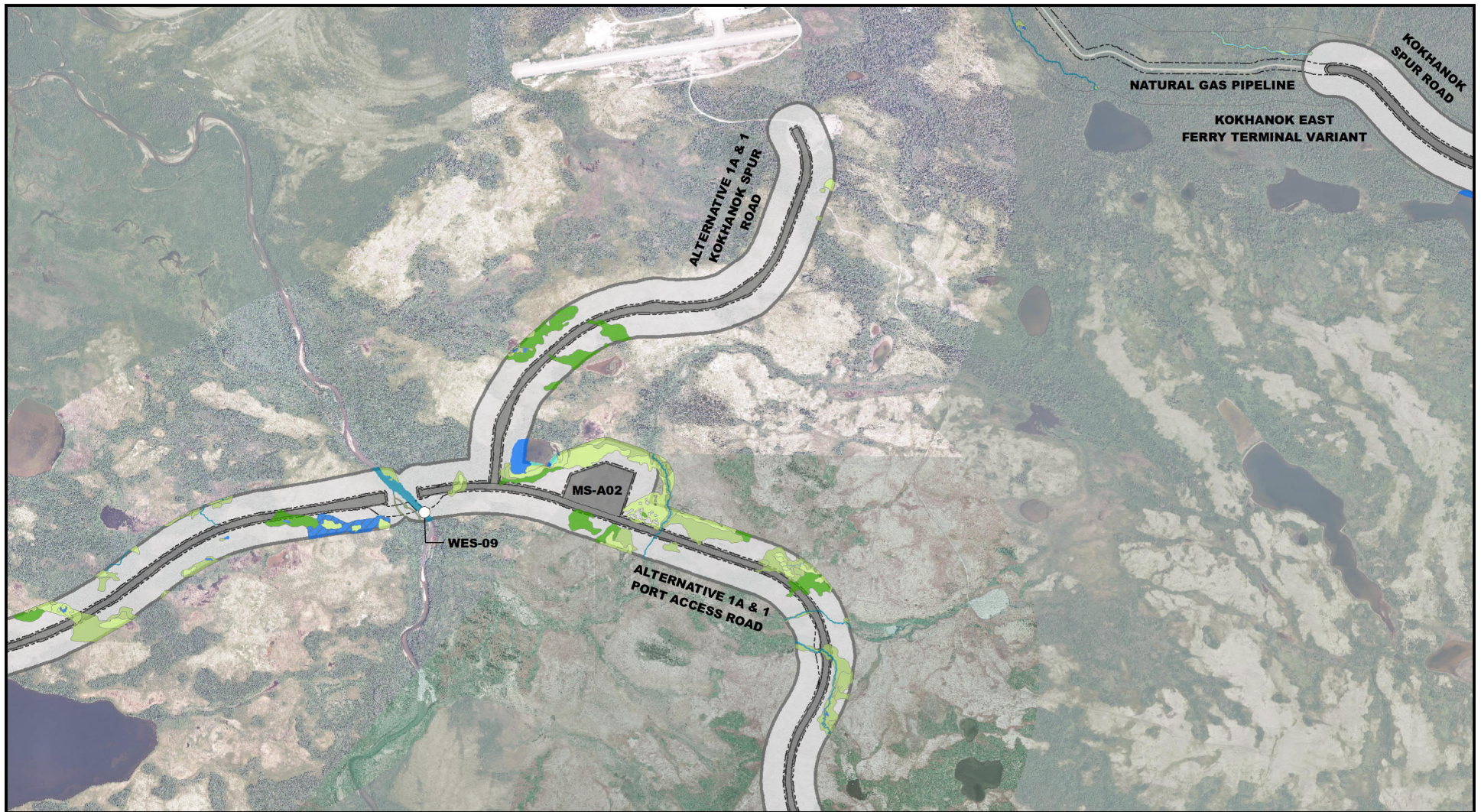


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-18 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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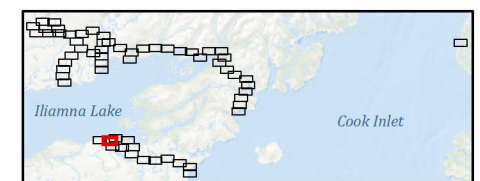
1,000 0 1,000 2,000  
Feet

- Water Extraction Site
- Direct Impact**
- Permanent
- Temporary
- Indirect Impact**
- Fugitive Dust

#### NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

■ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

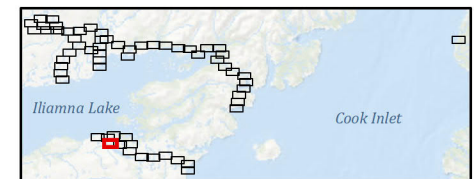
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-20 of 62

PEBBLE PROJECT EIS





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

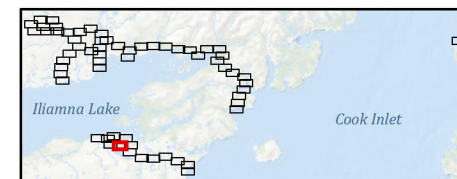
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

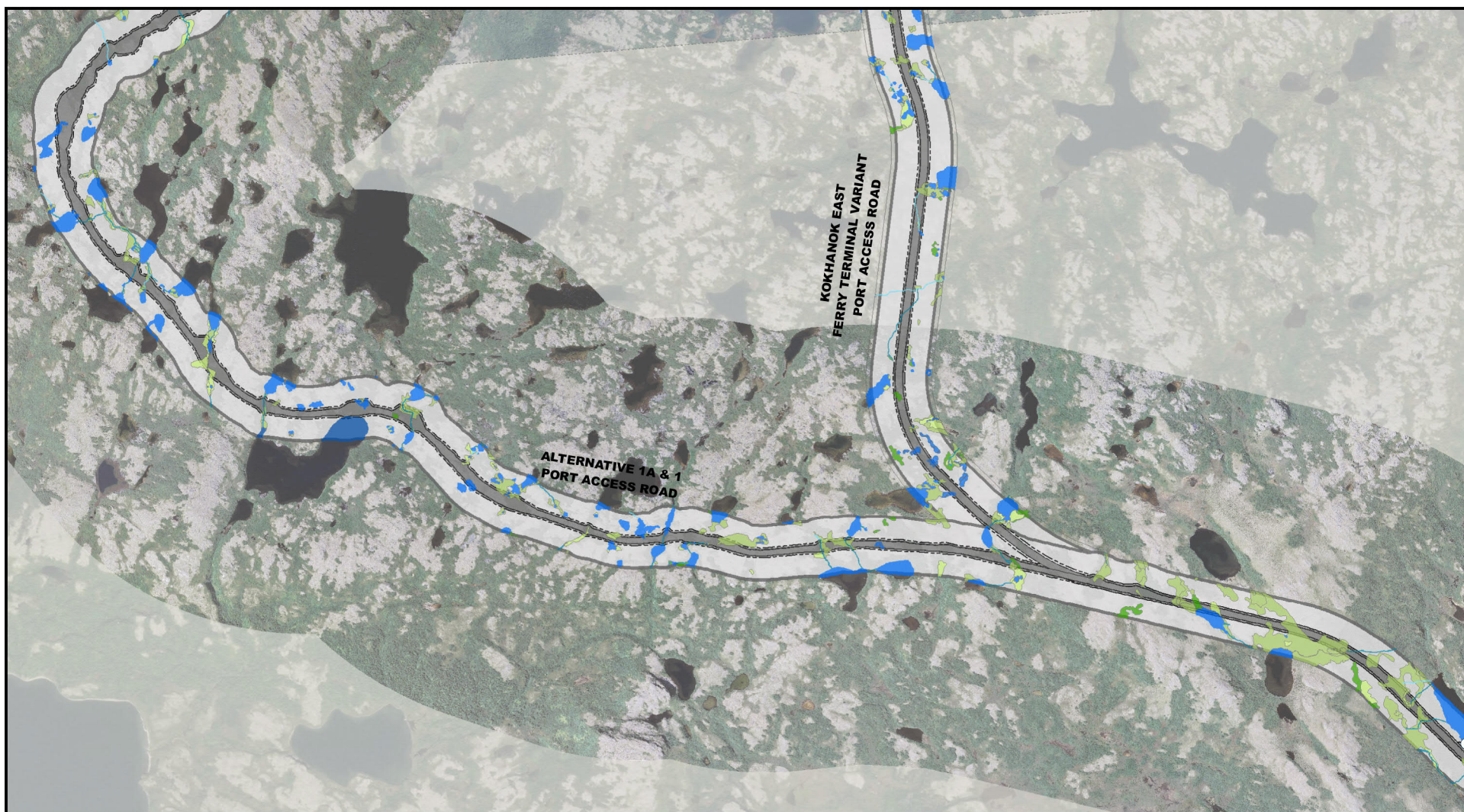


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-21 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Ponds

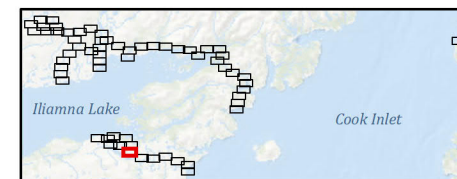
■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Wetland/Upland Mosaic

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-22 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



**US Army Corps  
of Engineers®**



1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

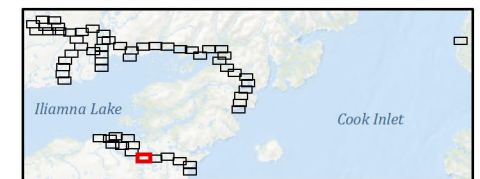
■ Evergreen Shrubs

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-23 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

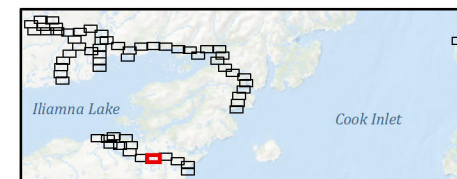
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-24 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

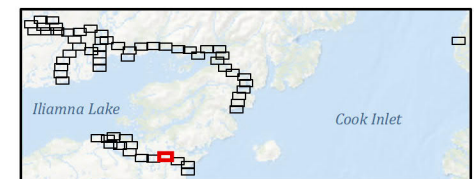
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

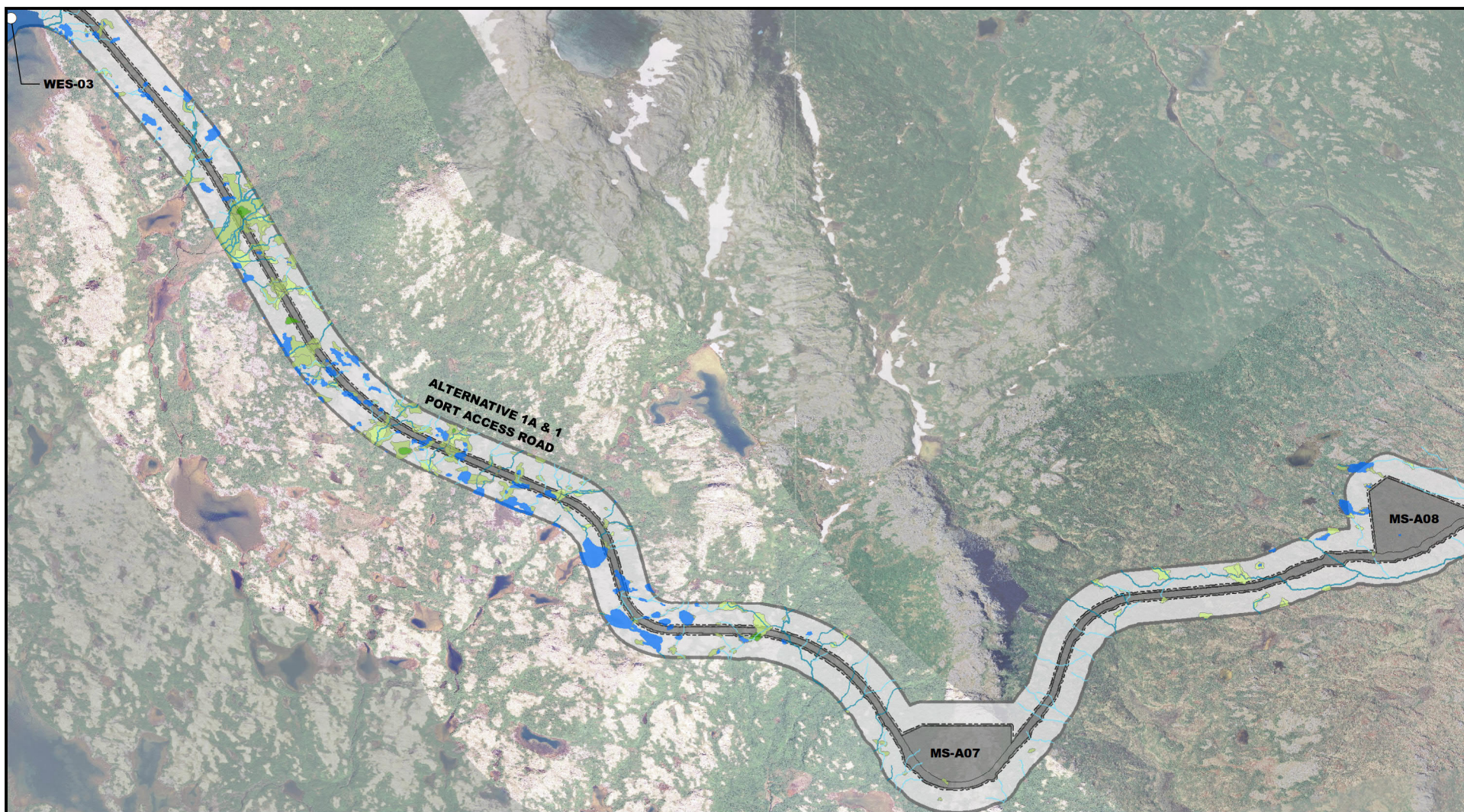


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-25 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

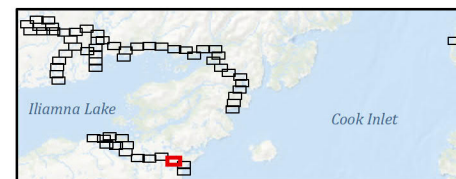
■ Ponds

■ Lakes

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

FIGURE K4.22-26 of 62

PEBBLE PROJECT EIS





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Evergreen Shrubs

■ Marine (Intertidal)

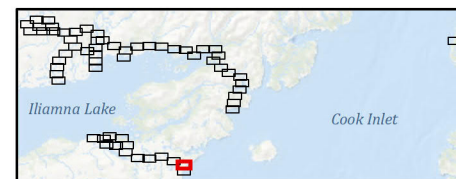
■ Marine (Subtidal)

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

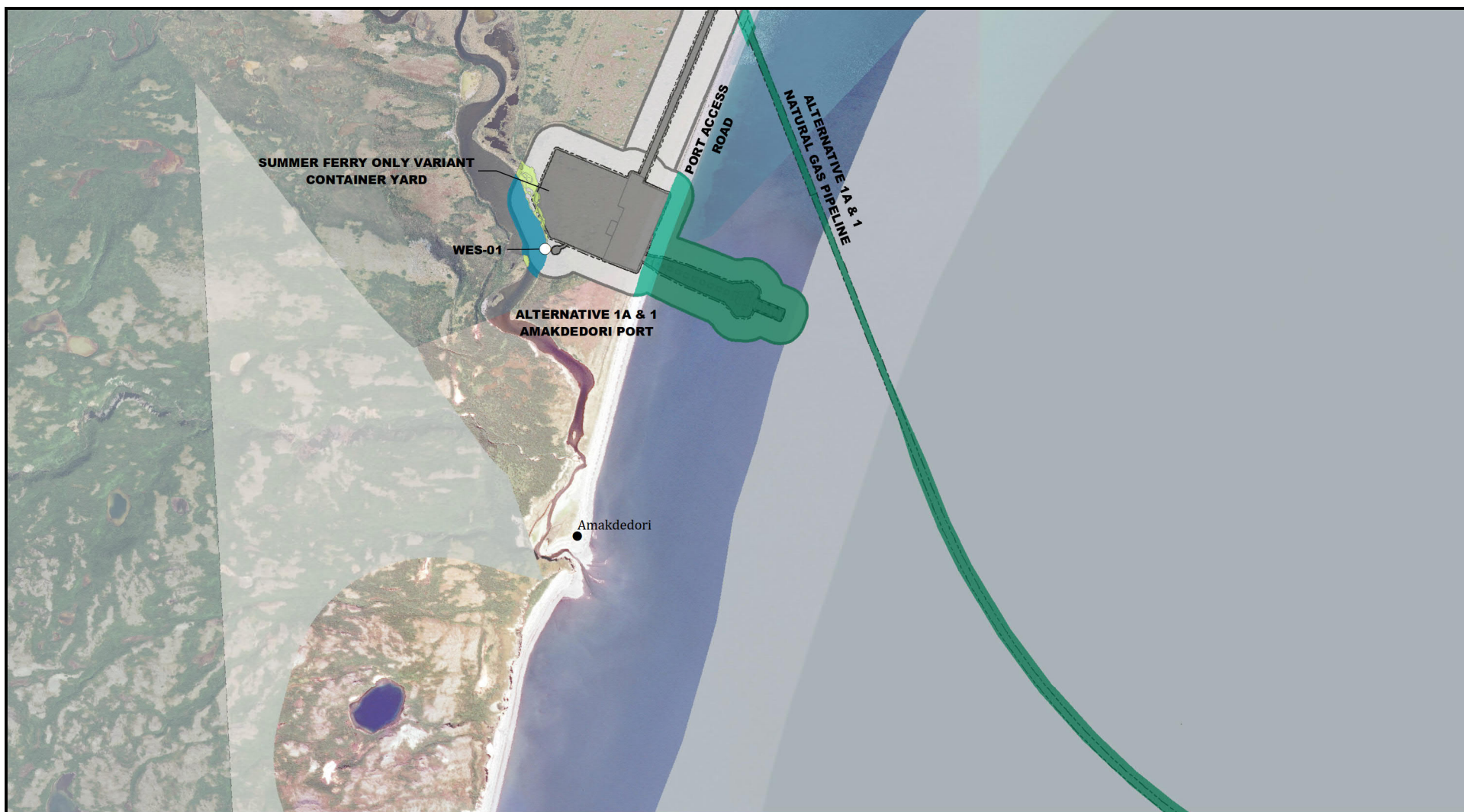


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-27 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Herbaceous

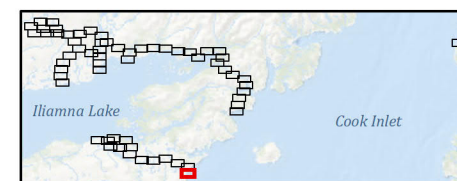
■ Broad Leaved Deciduous Shrubs

■ Marine (Intertidal)

■ Marine (Subtidal)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

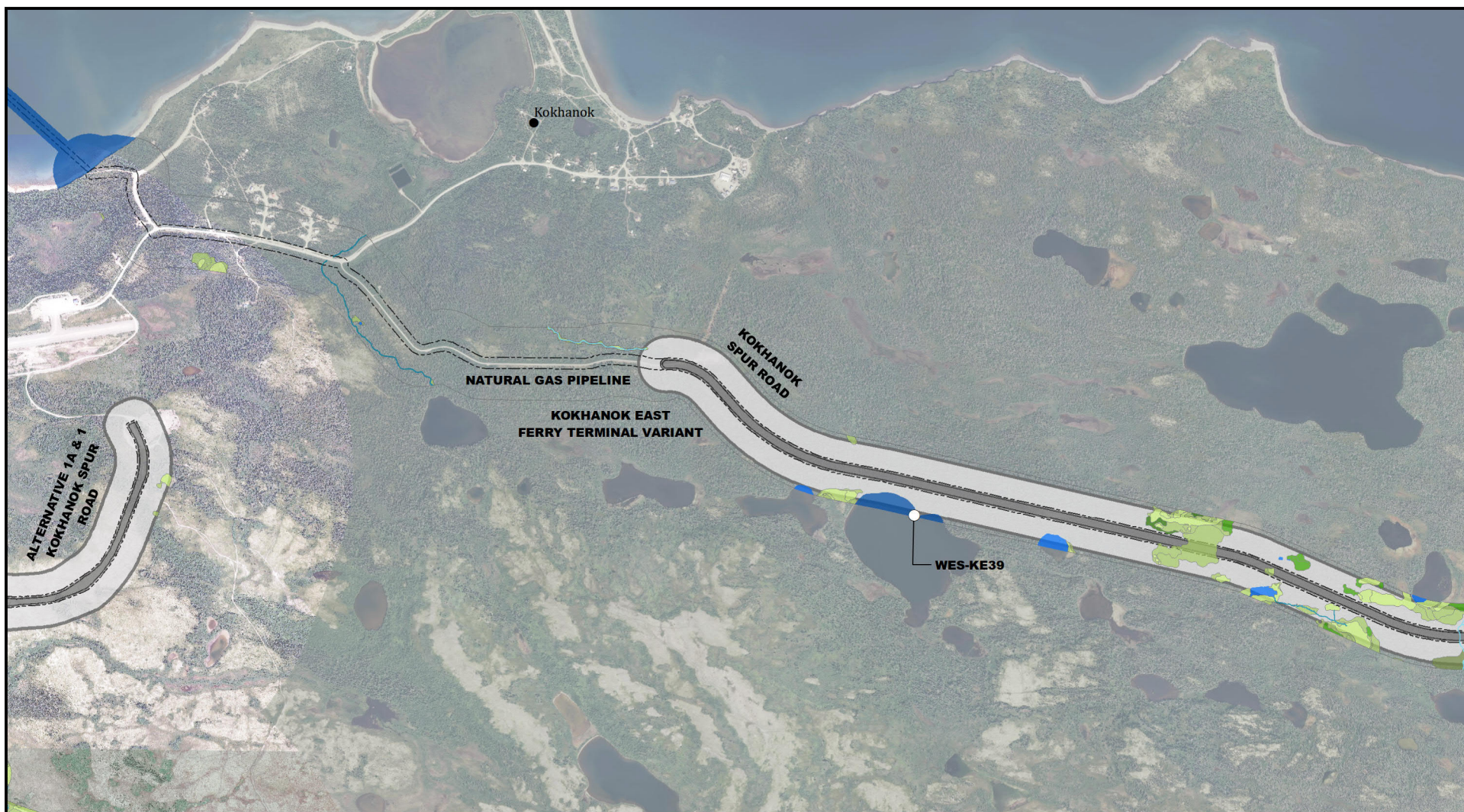


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-28 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

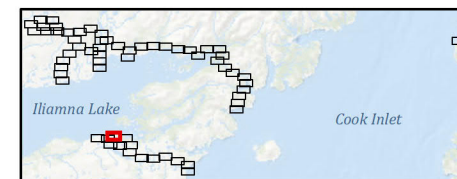
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

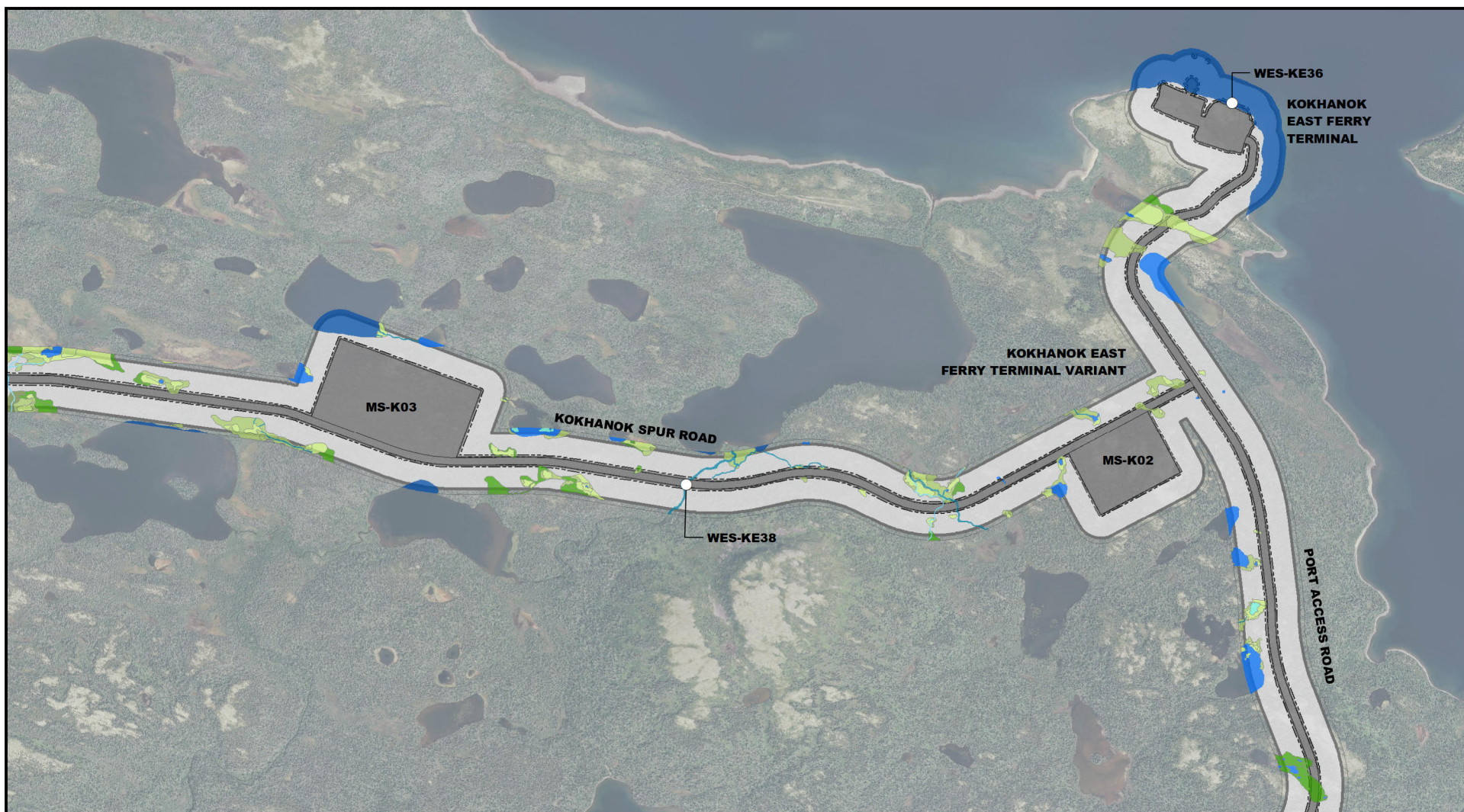
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

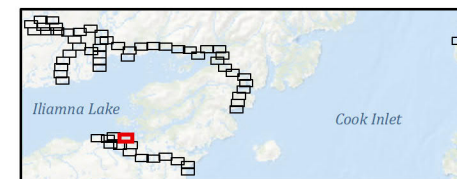
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

○ Water Extraction Site

**Direct Impact**

■ Permanent

□ Temporary

**Indirect Impact**

■ Fugitive Dust

**NWI Classes**

■ Aquatic Bed

■ Herbaceous

■ Broad Leaved Deciduous Shrubs

■ Deciduous Forest

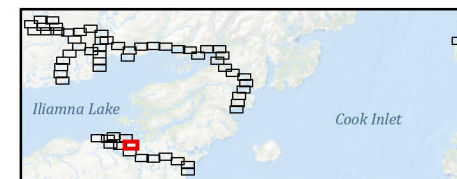
■ Evergreen Shrubs

■ Ponds

■ Rivers/Streams (Intermittent)

■ Rivers/Streams (Perennial)

■ Uplands/Mapped Wetlands Extent

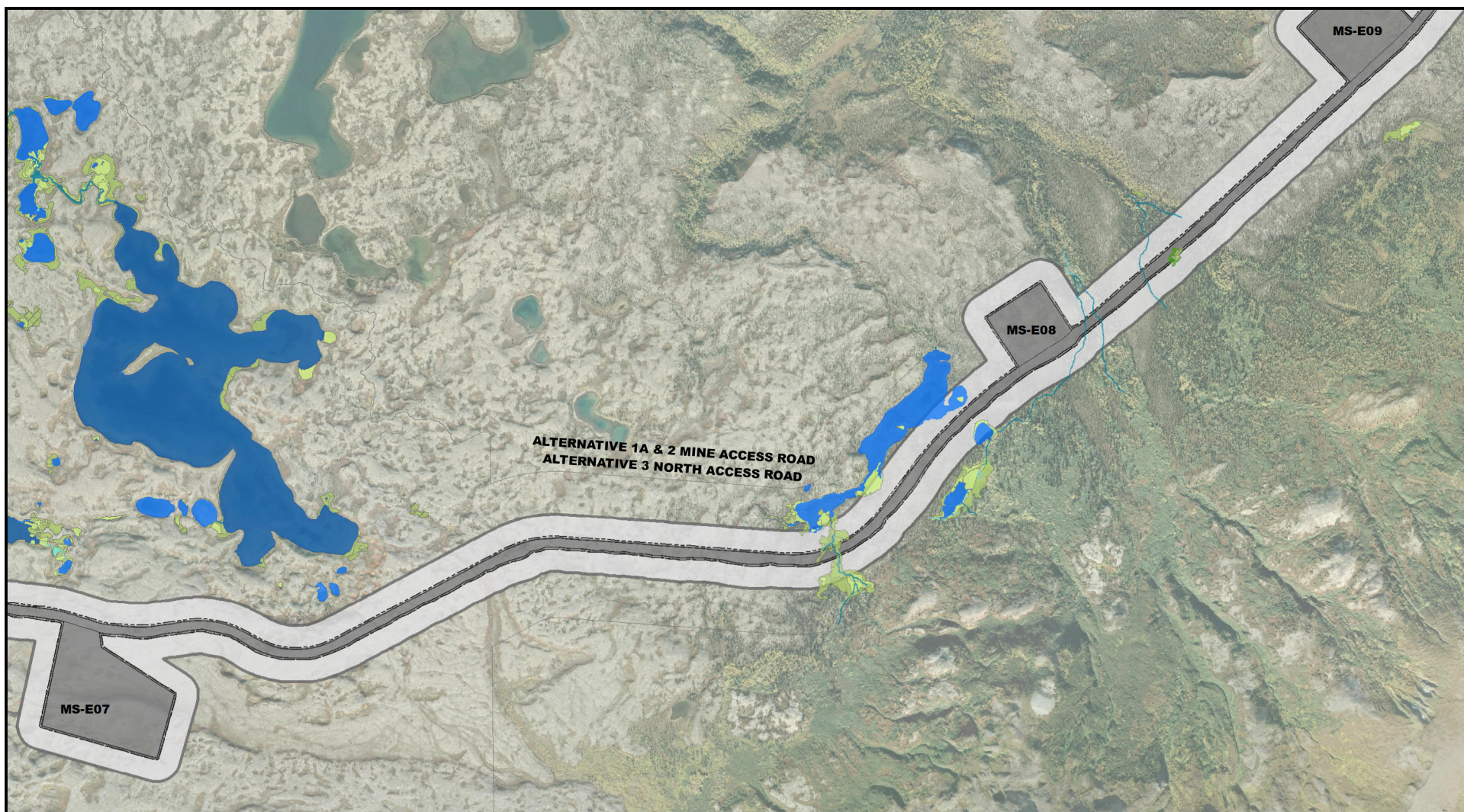


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-31 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

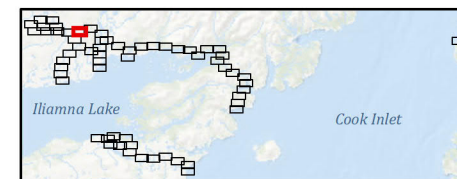
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

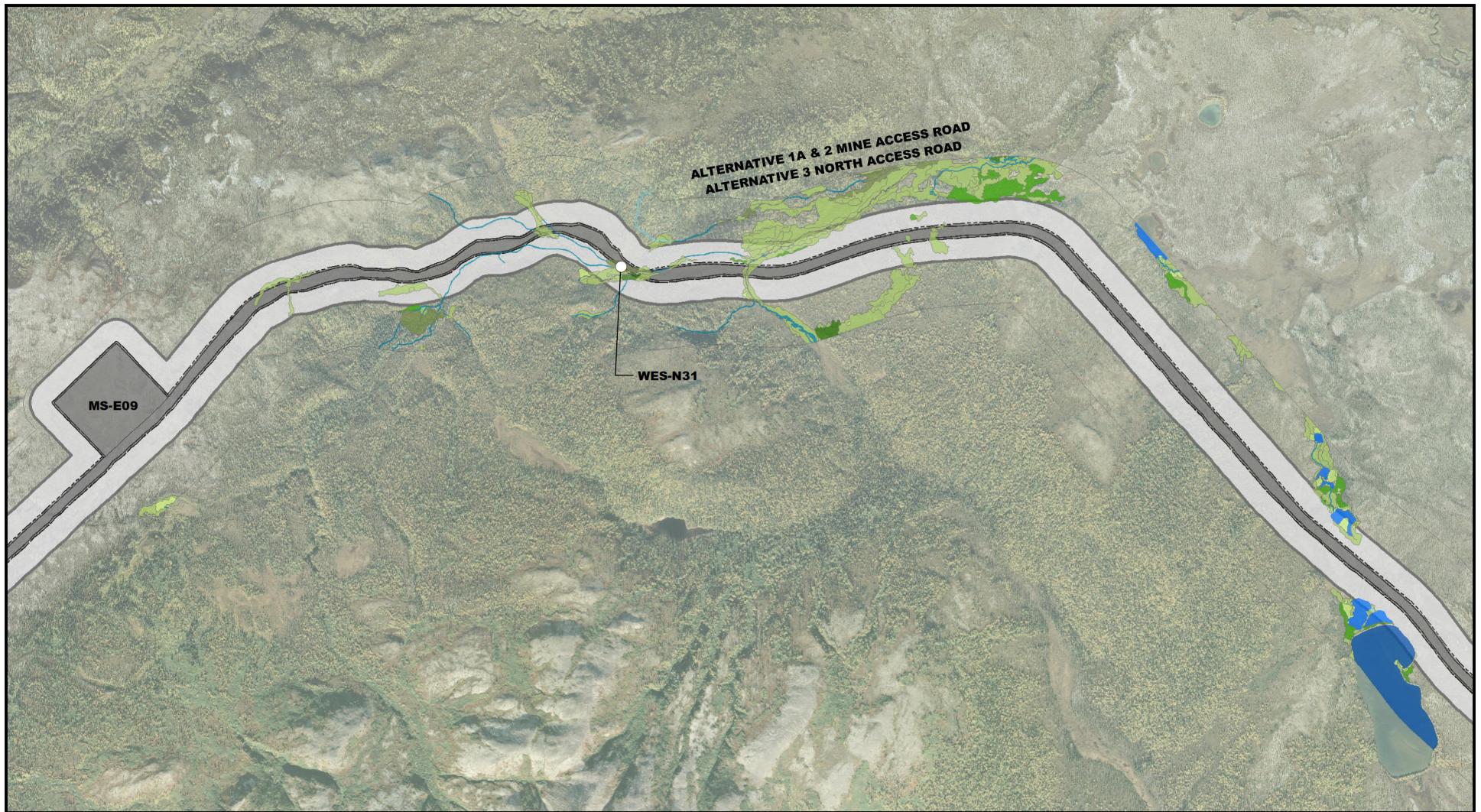
- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

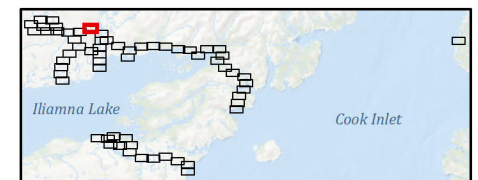
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

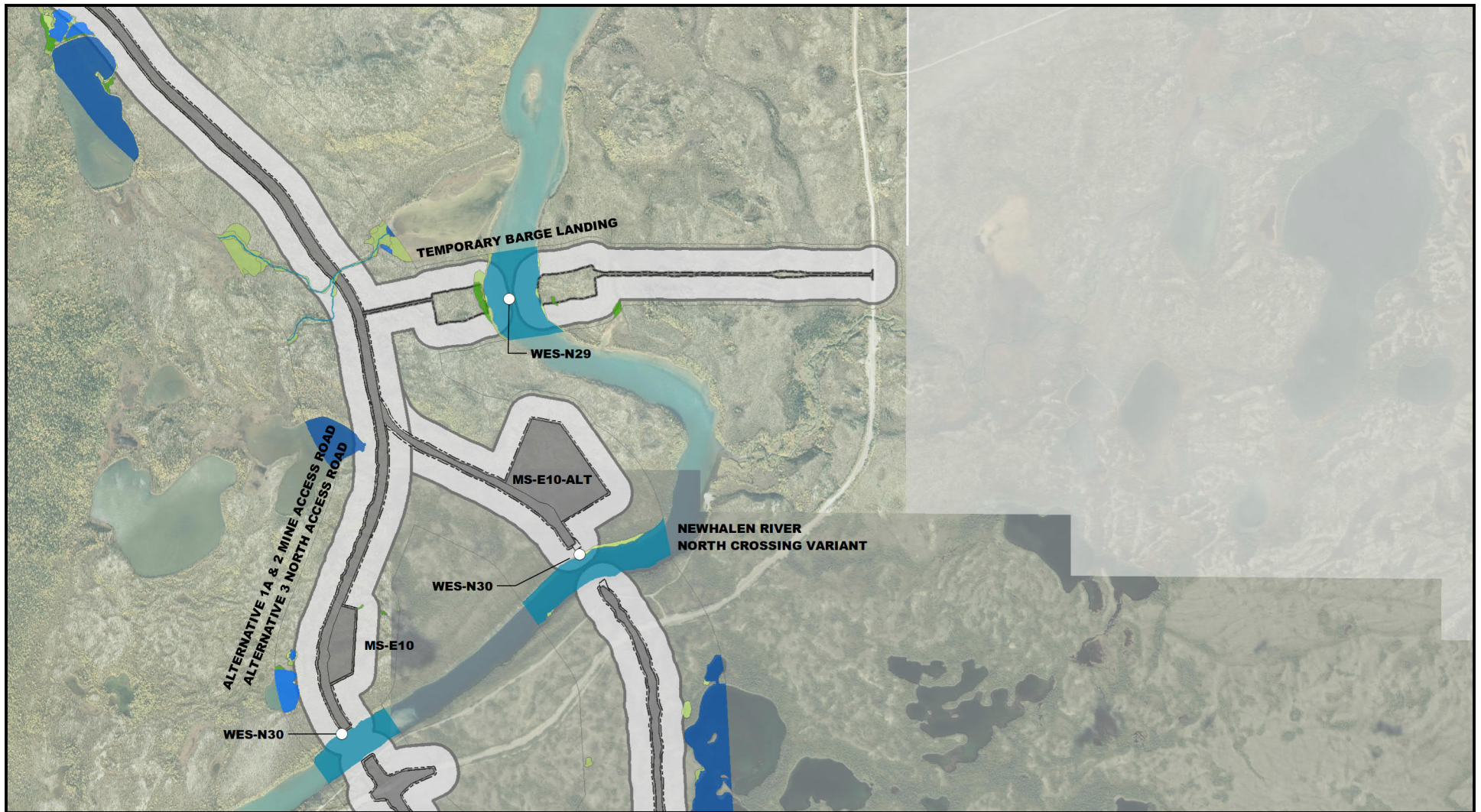


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-33 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

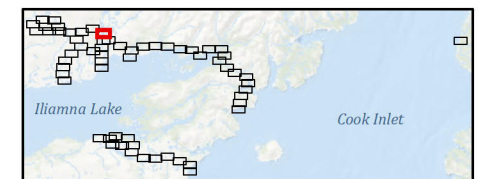
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

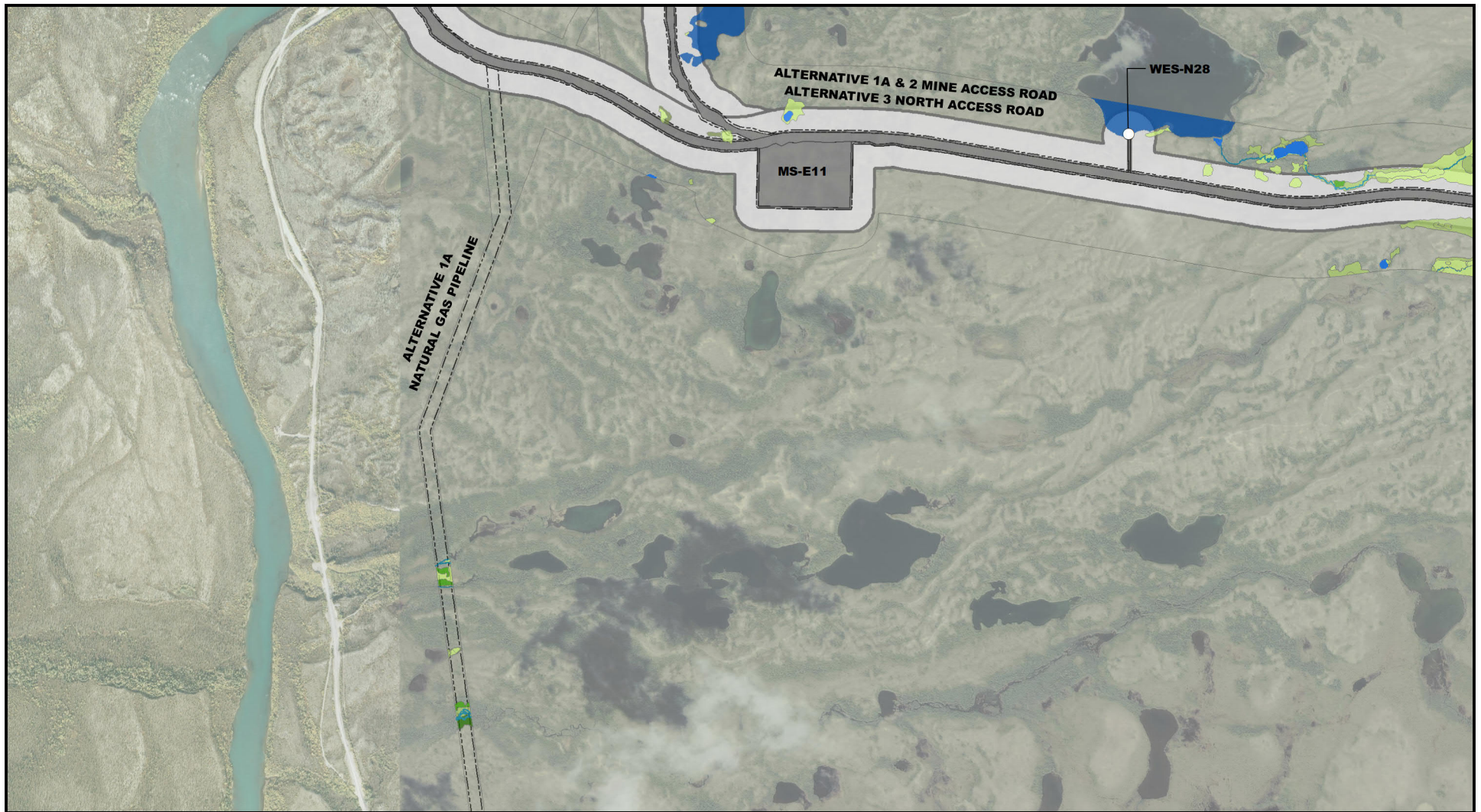
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

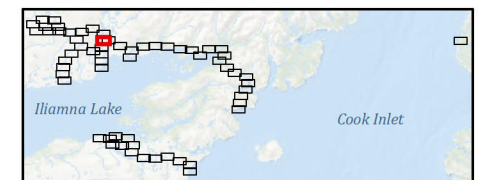
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

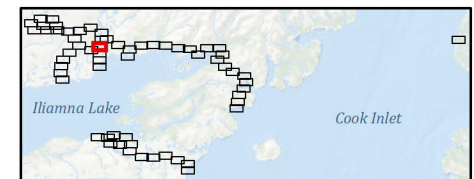
- Fugitive Dust

#### NWI Classes

- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs

- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-36 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

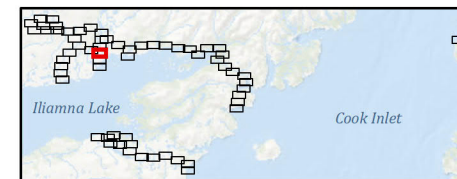
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs
- Ponds
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-37 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

**Indirect Impact**

- Fugitive Dust

**NWI Classes**

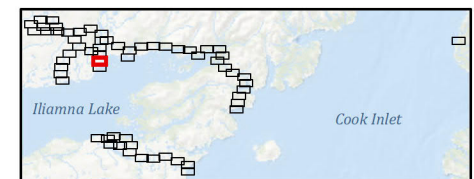
- Herbaceous
- Broad Leaved Deciduous Shrubs

Evergreen Shrubs

Ponds

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-38 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

**Indirect Impact**

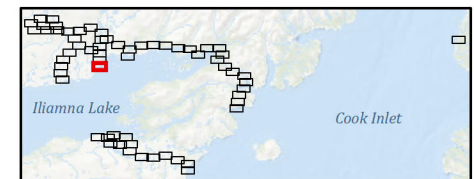
- Fugitive Dust

**NWI Classes**

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs

- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

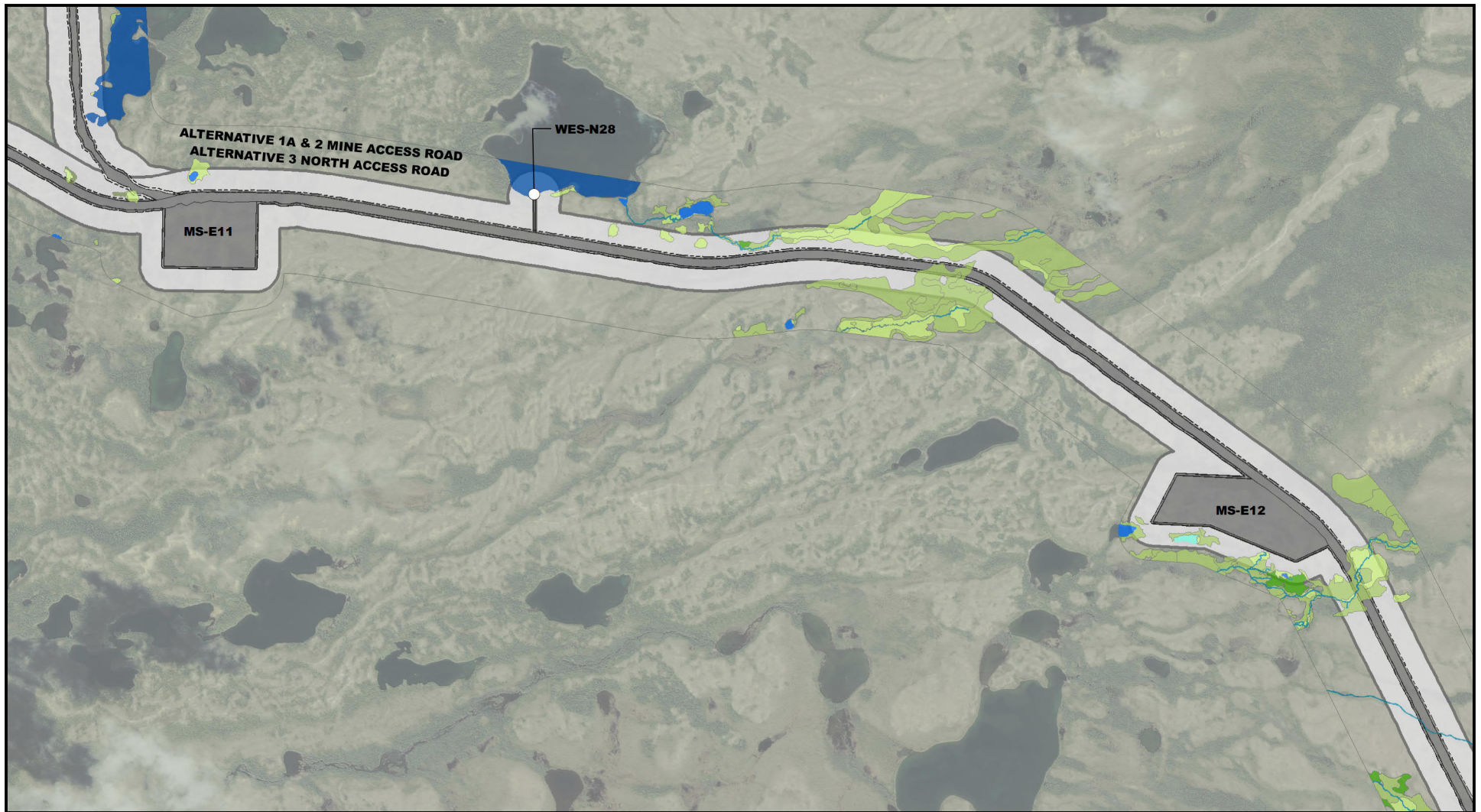


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-39 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

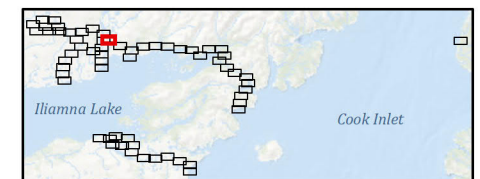
- Fugitive Dust

#### NWI Classes

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

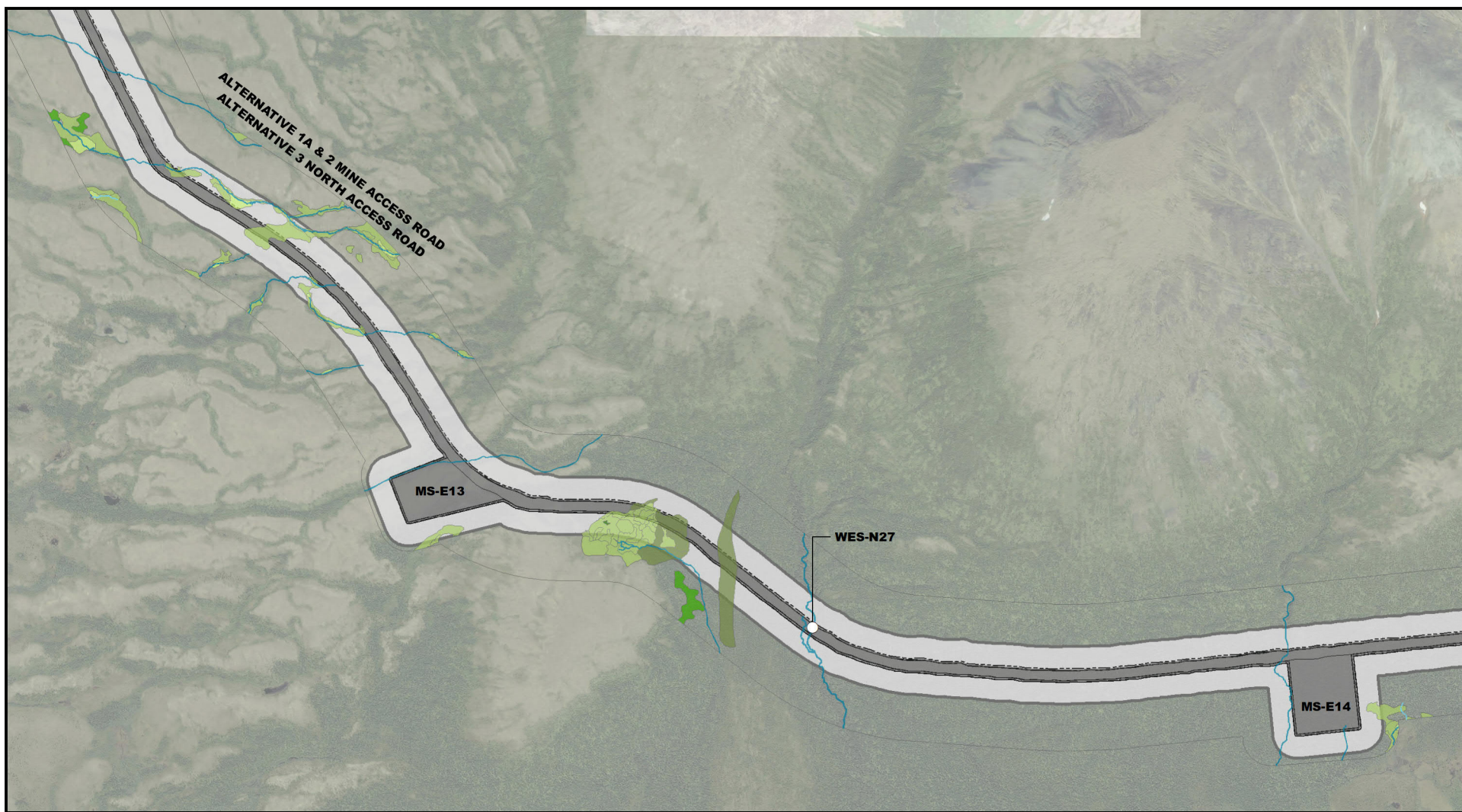
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

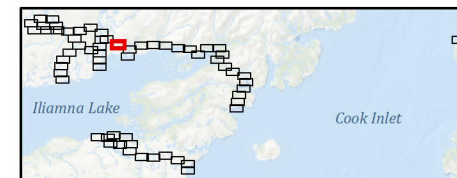
- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

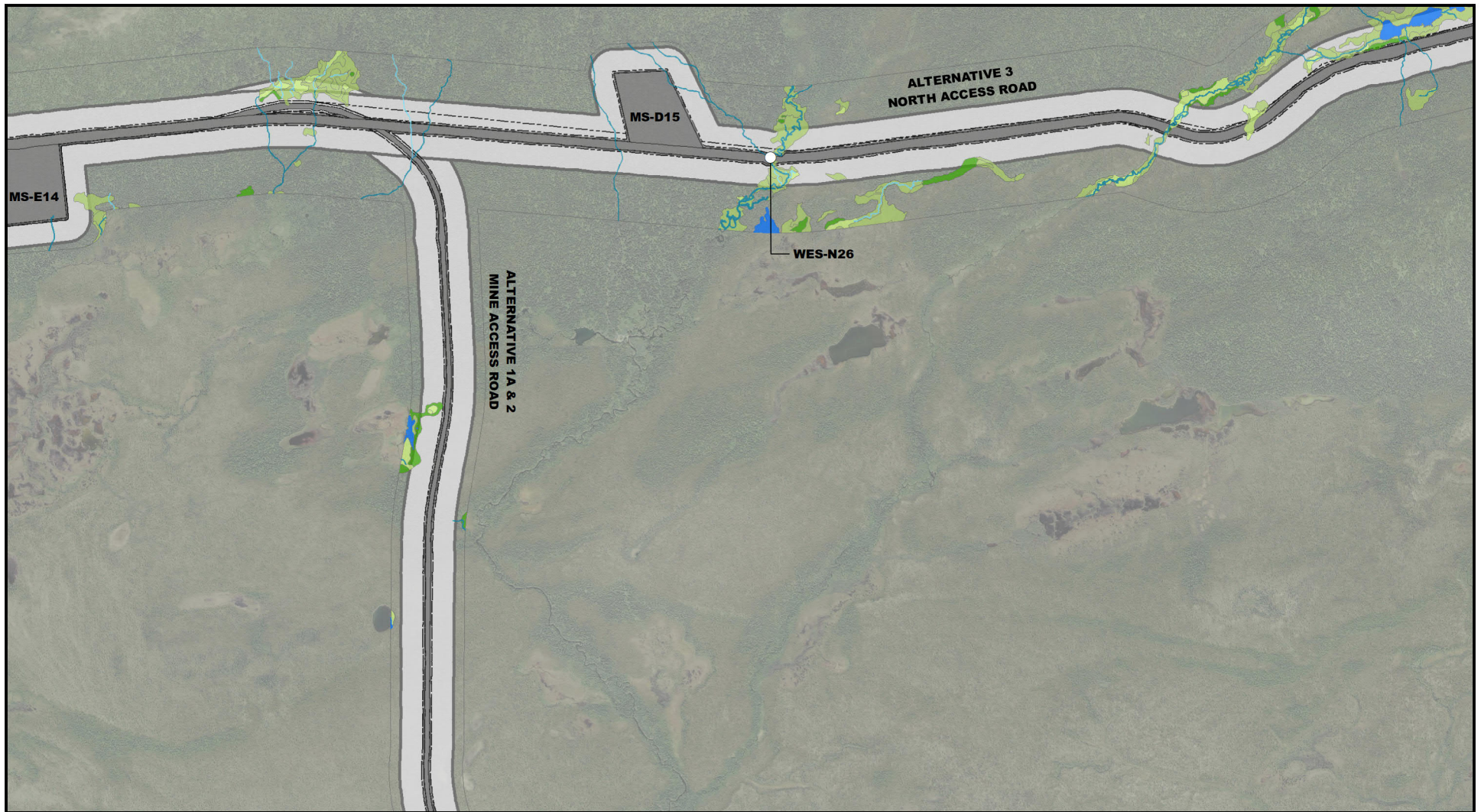
- Evergreen Forest

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

**Indirect Impact**

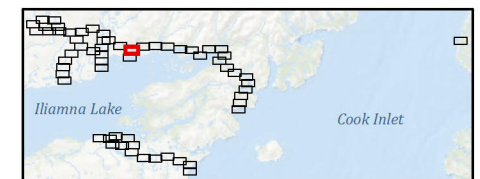
- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Evergreen Forest

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-42 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

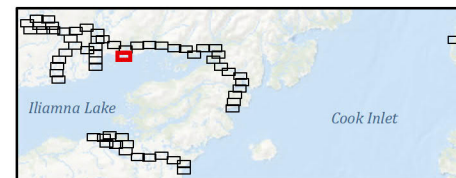
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs

- Evergreen Shrubs
- Ponds
- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

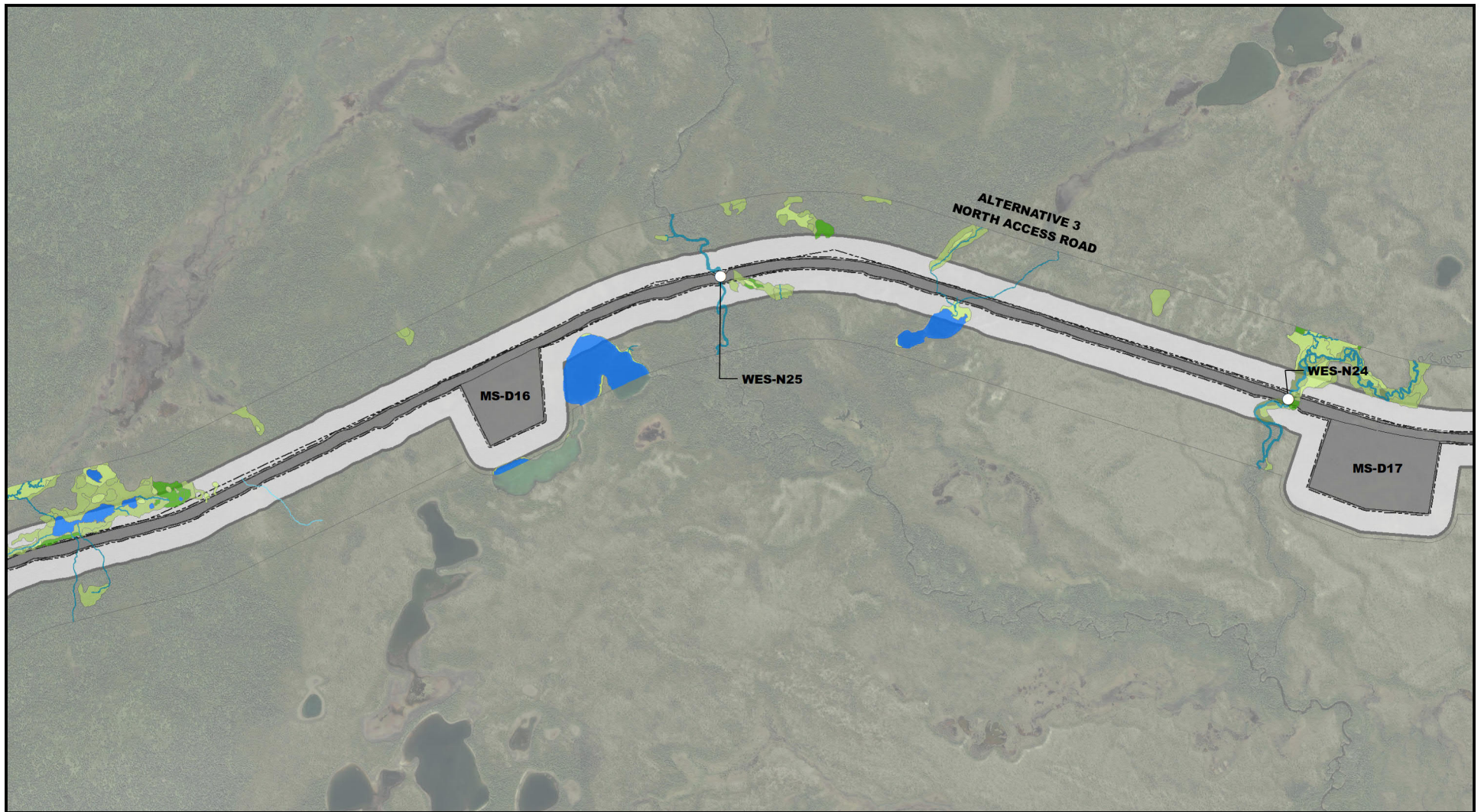


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-43 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

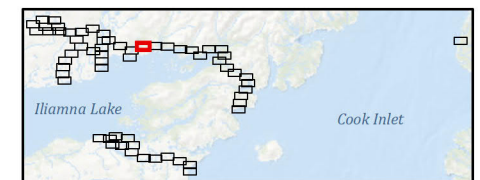
- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest

- Evergreen Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

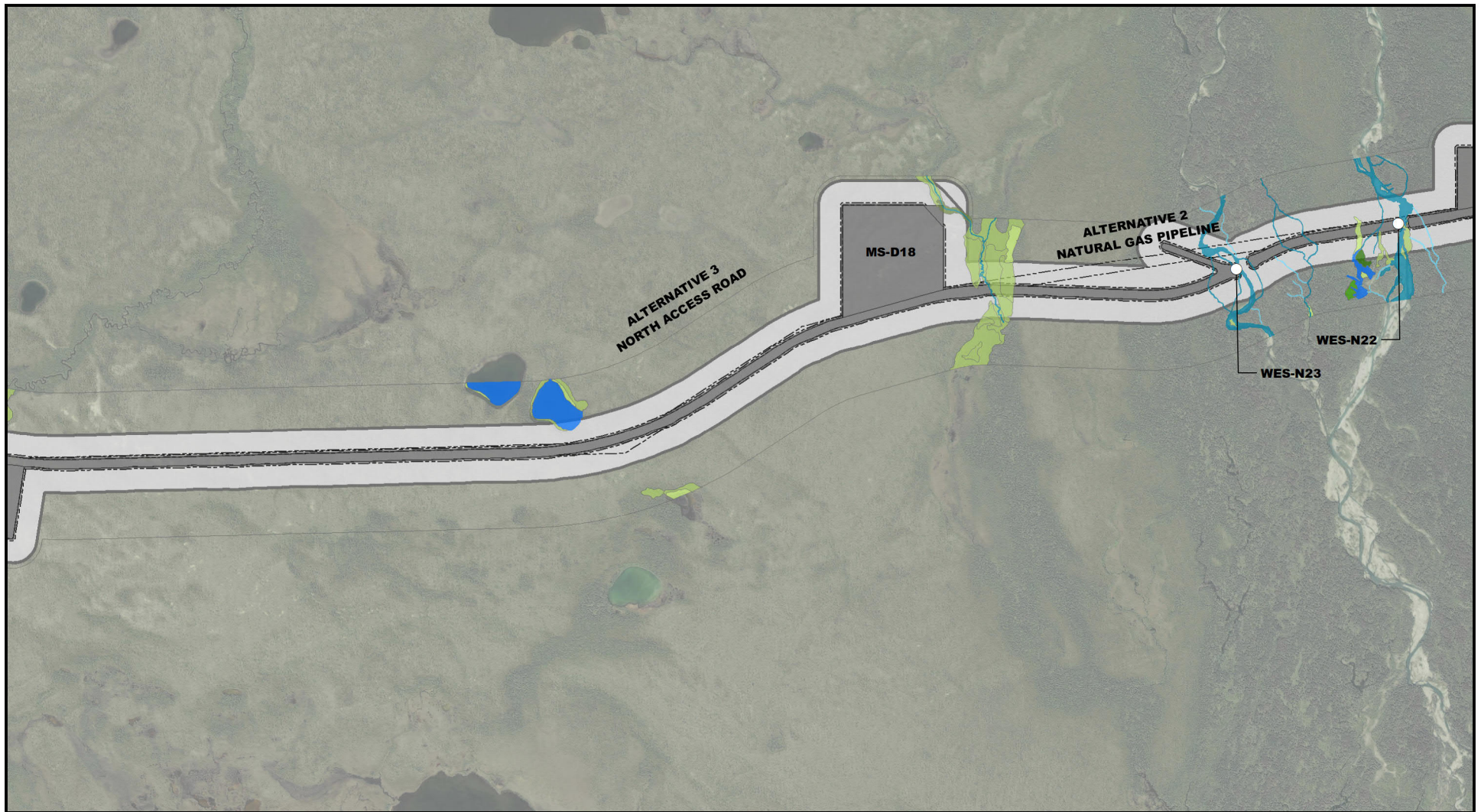


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-44 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

#### Indirect Impact

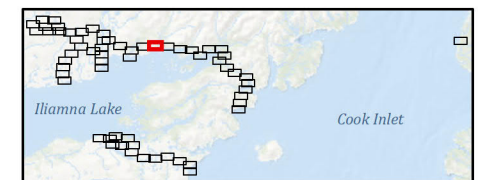
- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

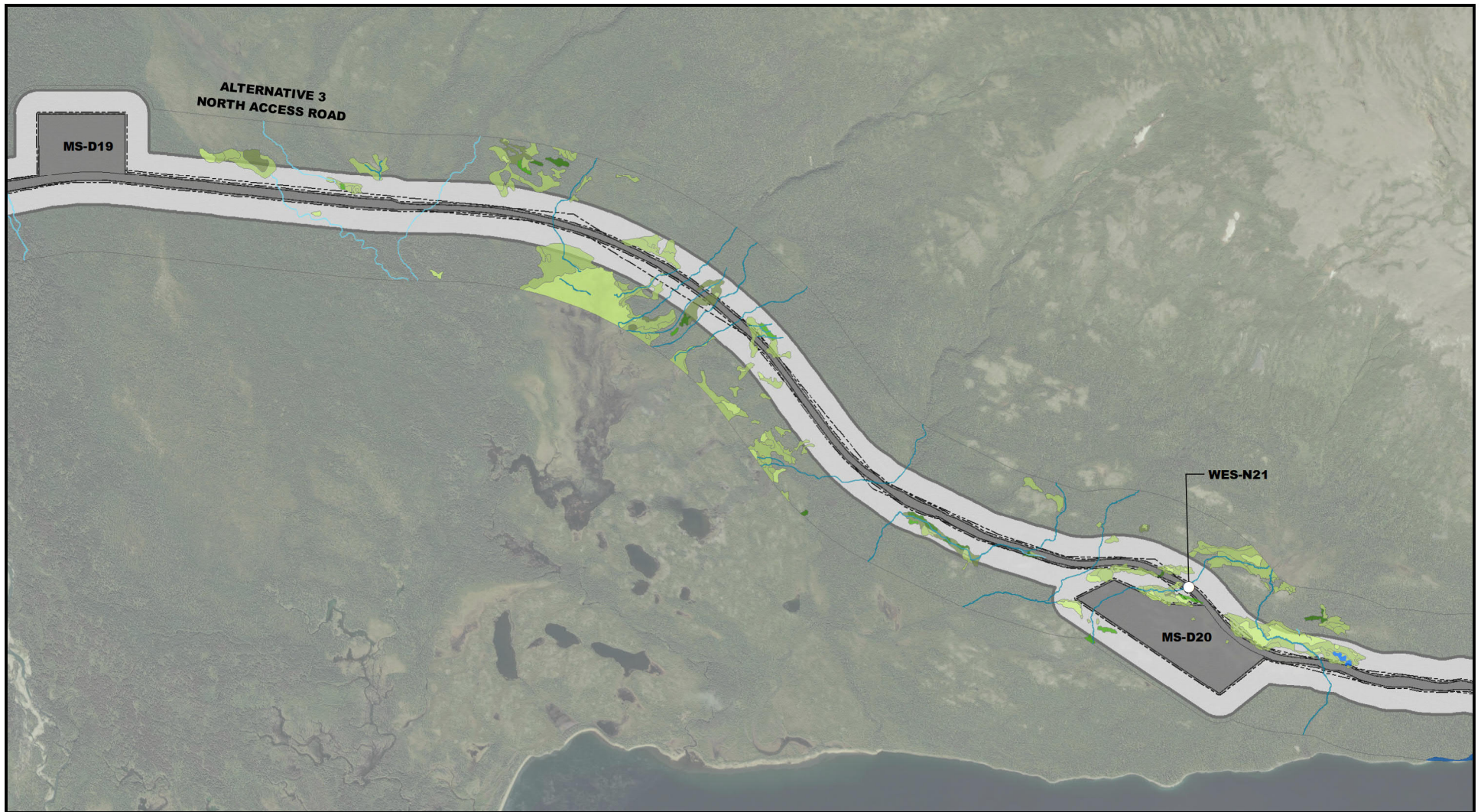


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-45 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000



Feet

#### Direct Impact

- Permanent
- Temporary

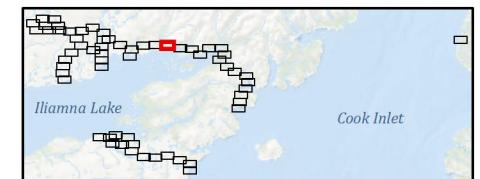
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

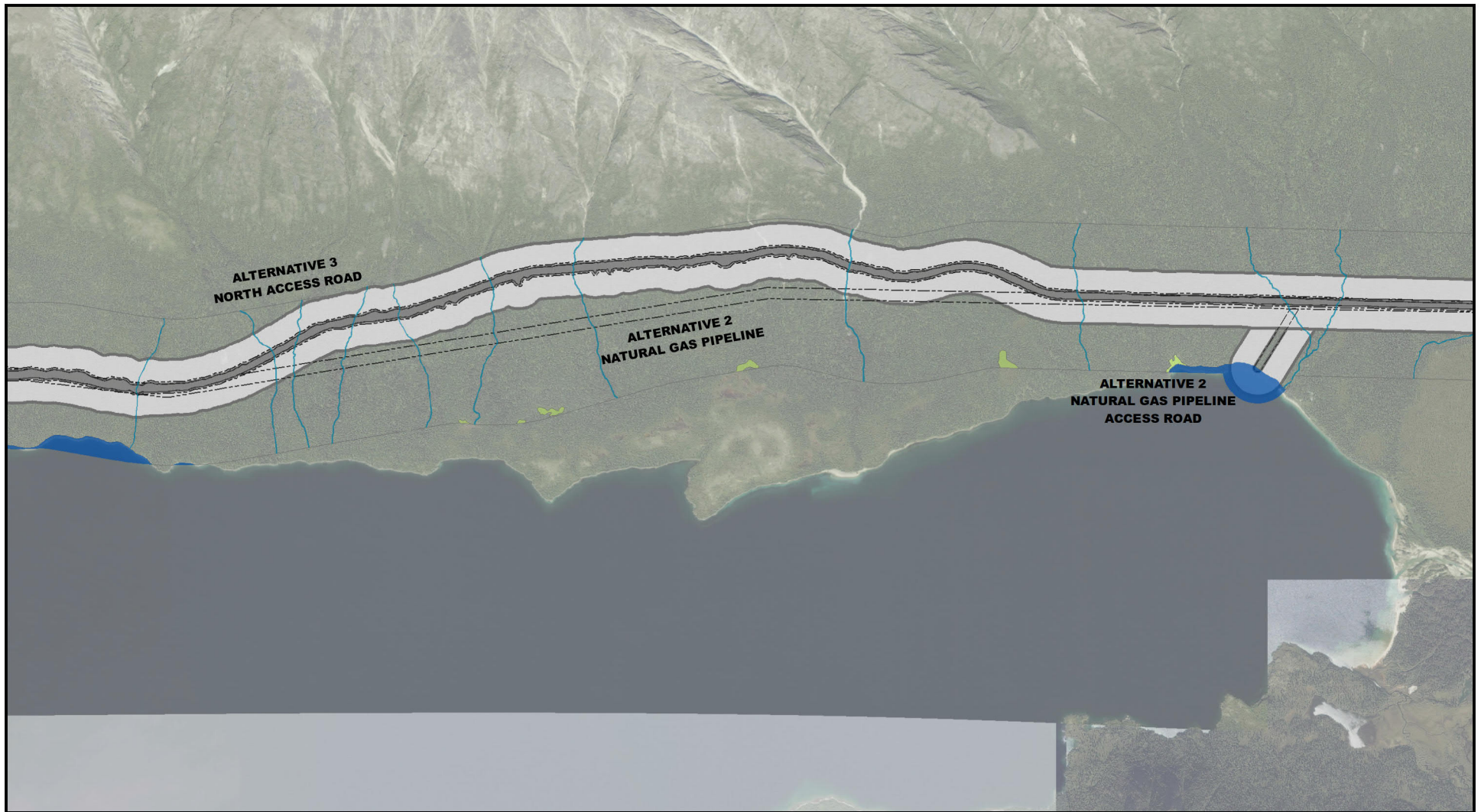


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-46 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

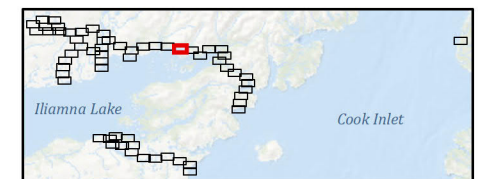
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Lakes
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

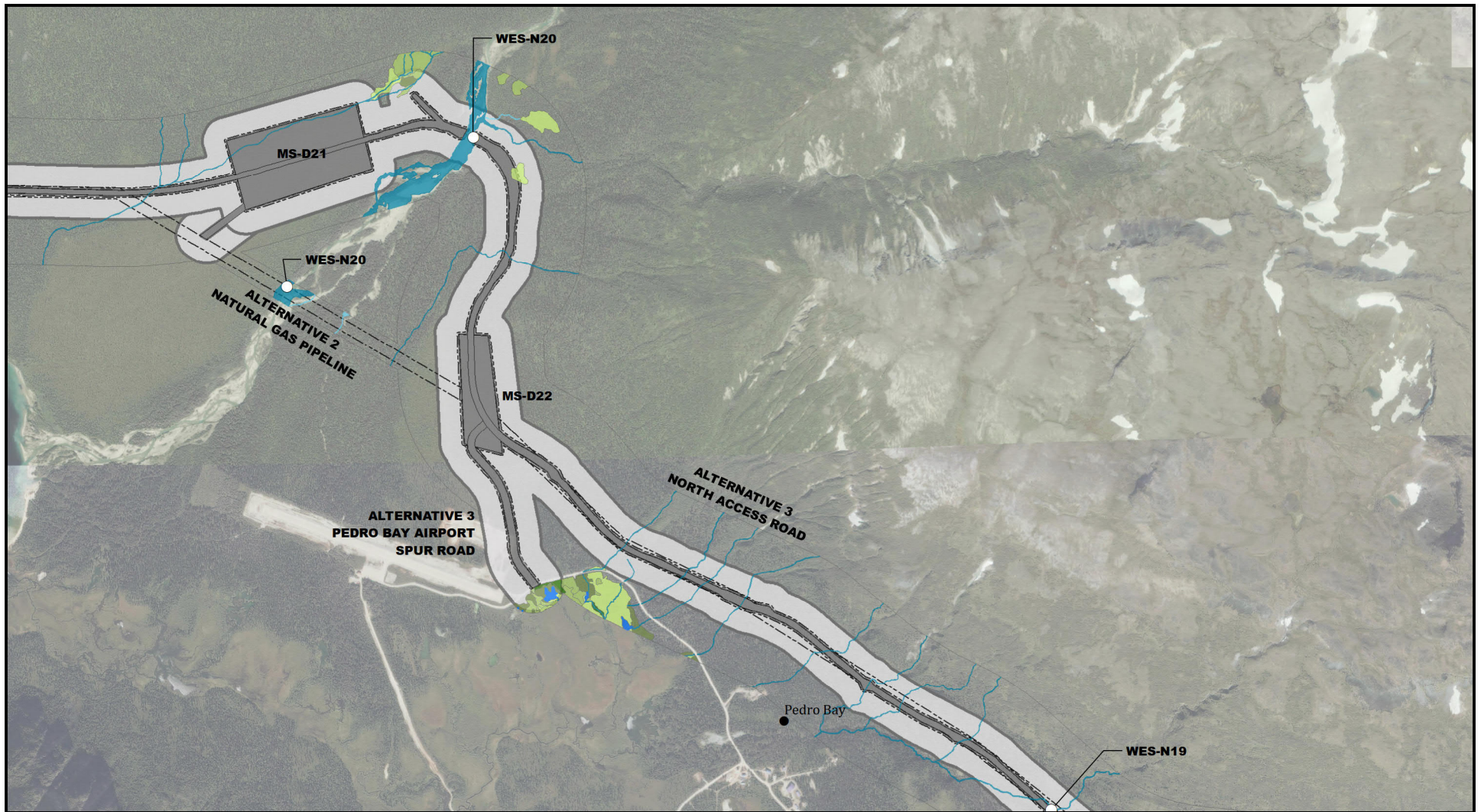


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-47 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

Permanent

Temporary

Indirect Impact

Fugitive Dust

#### NWI Classes

Herbaceous

Broad Leaved Deciduous Shrubs

Deciduous Forest

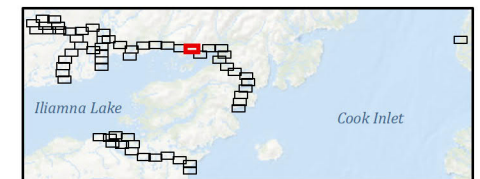
Evergreen Forest

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent

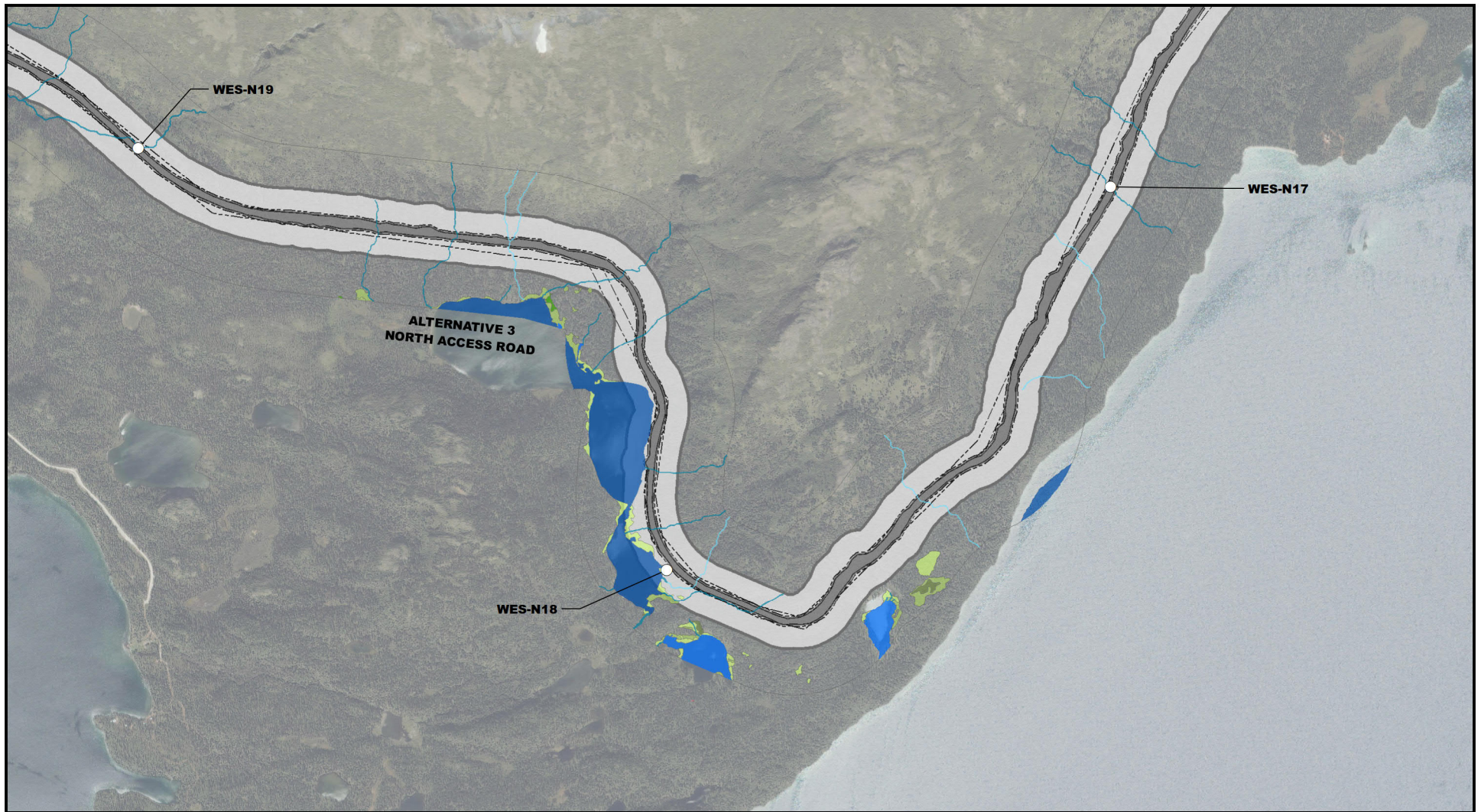


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-48 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

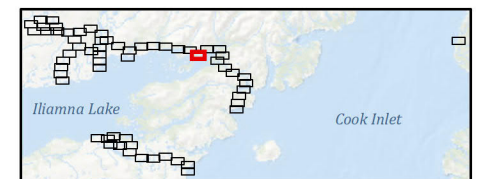
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

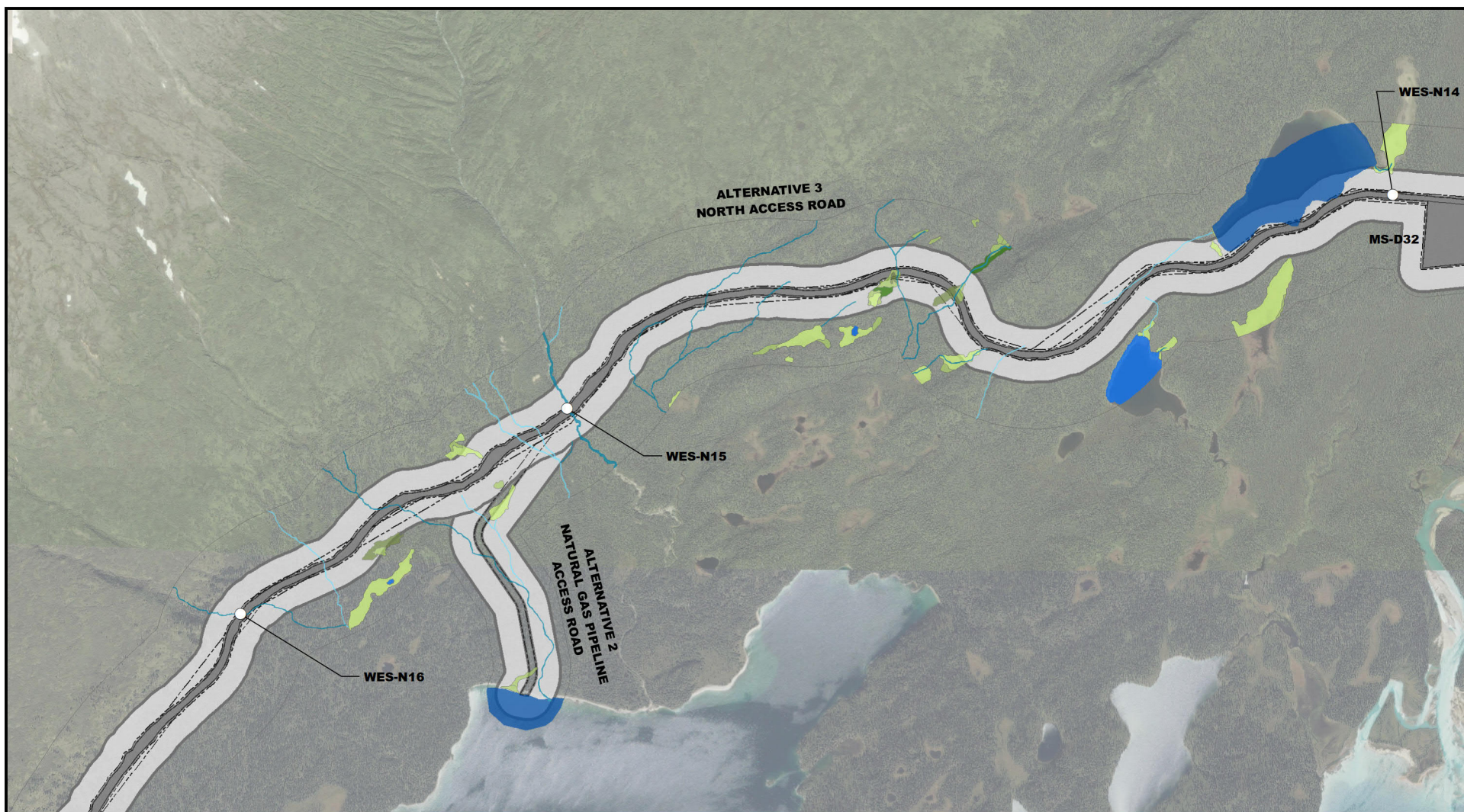


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-49 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

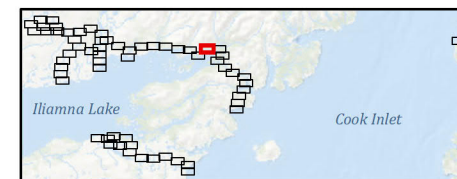
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

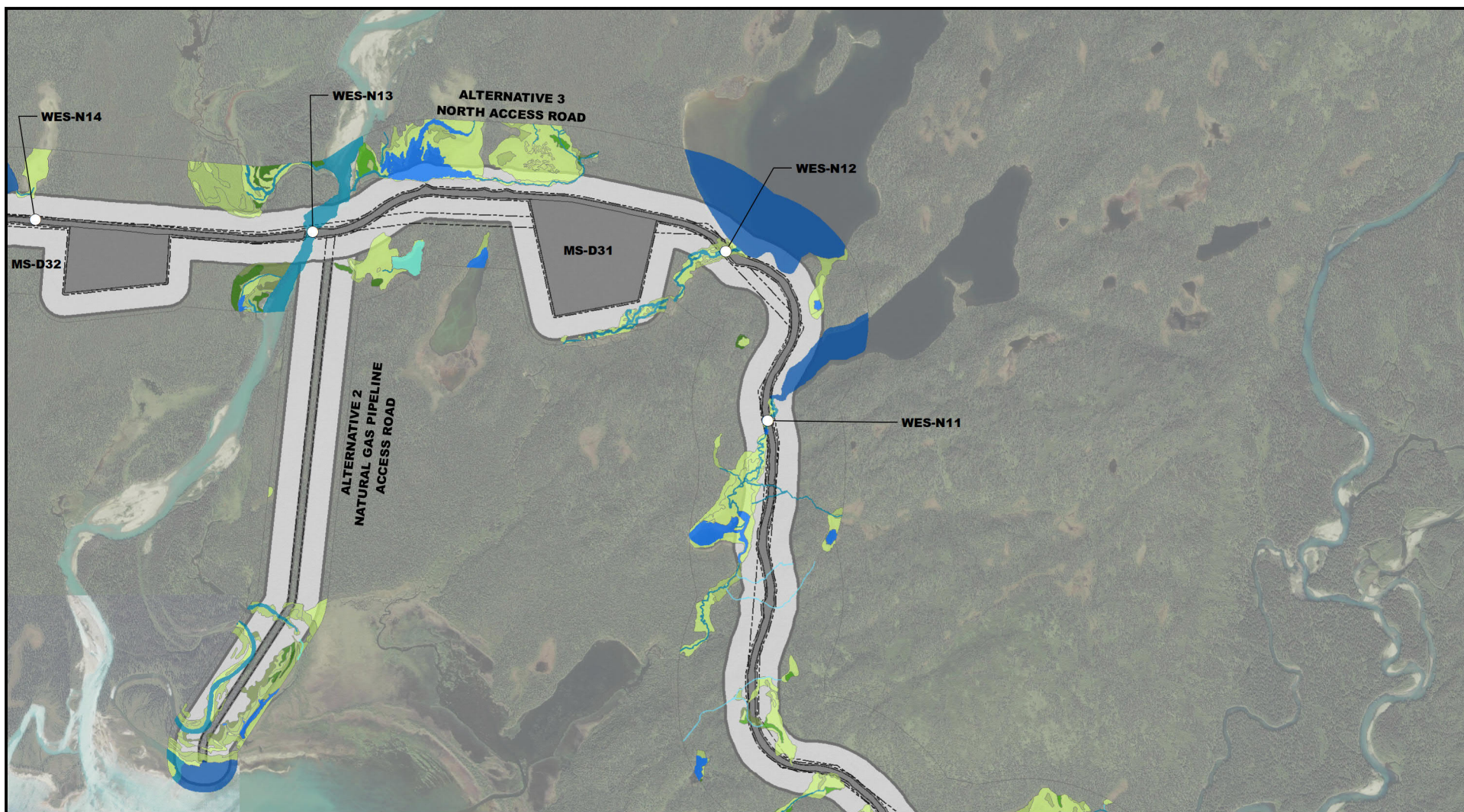
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Forest

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

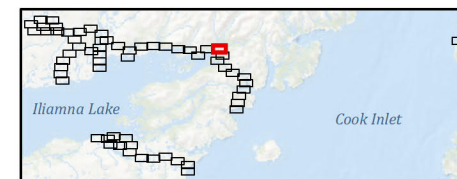
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

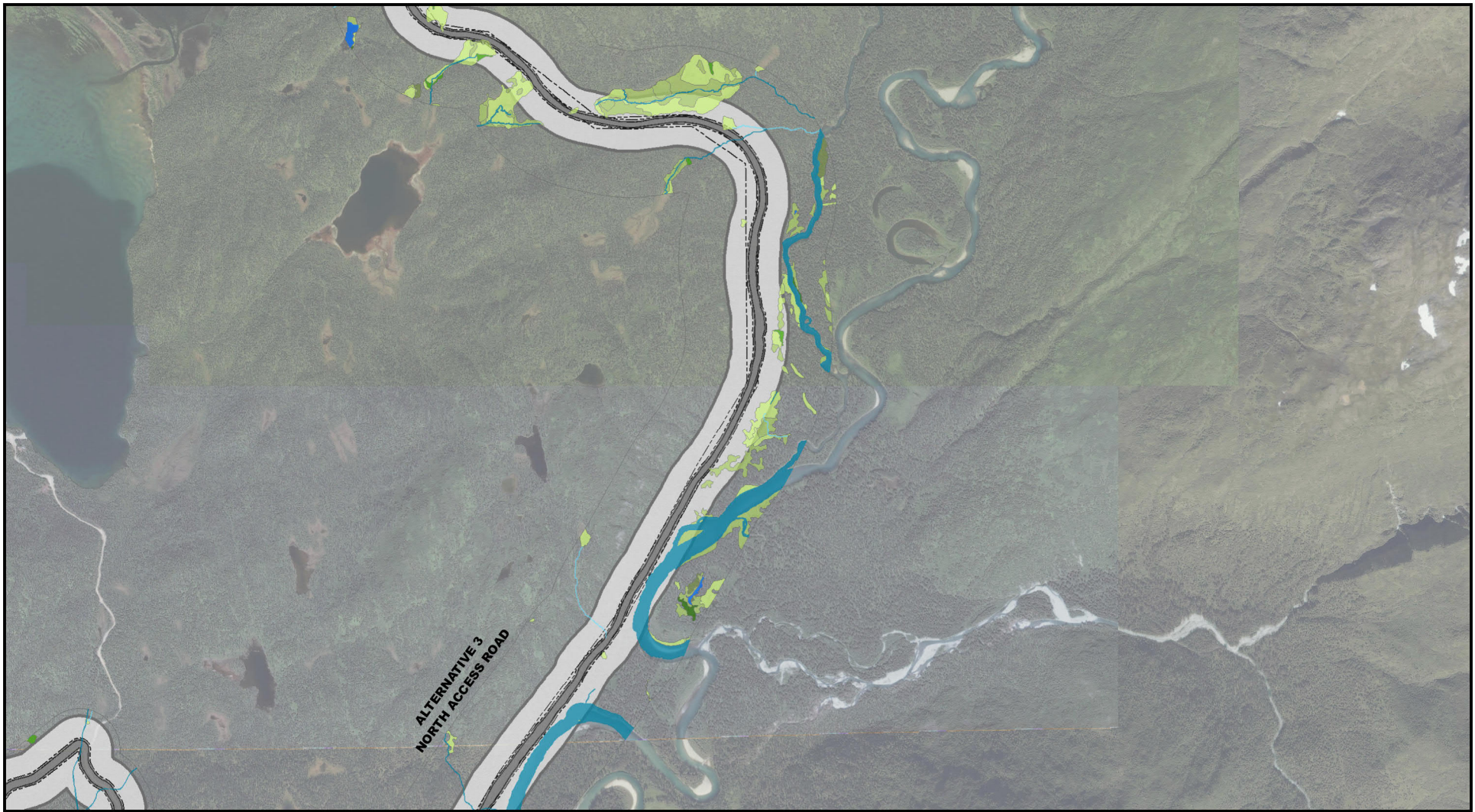
- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

Permanent

Temporary

**Indirect Impact**

Fugitive Dust

**NWI Classes**

Herbaceous

Broad Leaved Deciduous Shrubs

Deciduous Forest

Evergreen Shrubs

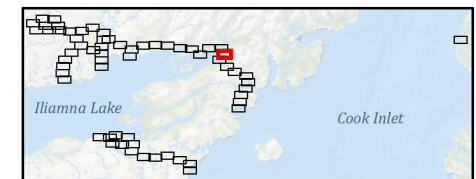
Evergreen Forest

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent

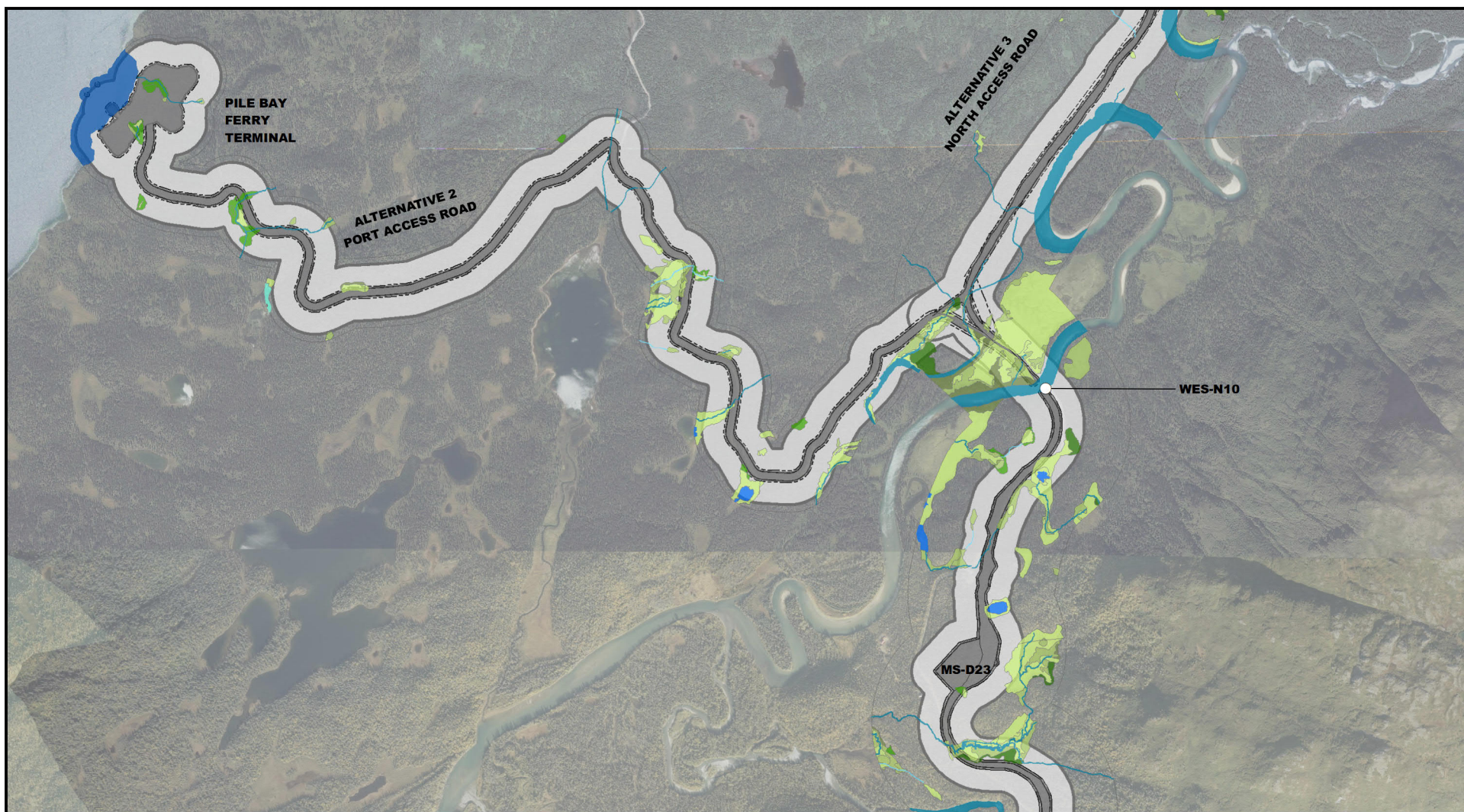


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-52 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

**Indirect Impact**

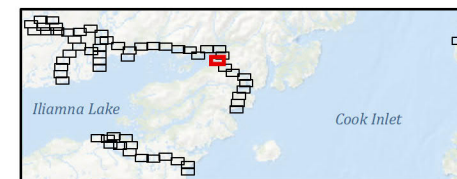
- Fugitive Dust

**NWI Classes**

- Aquatic Bed
- Herbaceous
- Broad Leaved Deciduous Shrubs
- Deciduous Forest
- Evergreen Shrubs

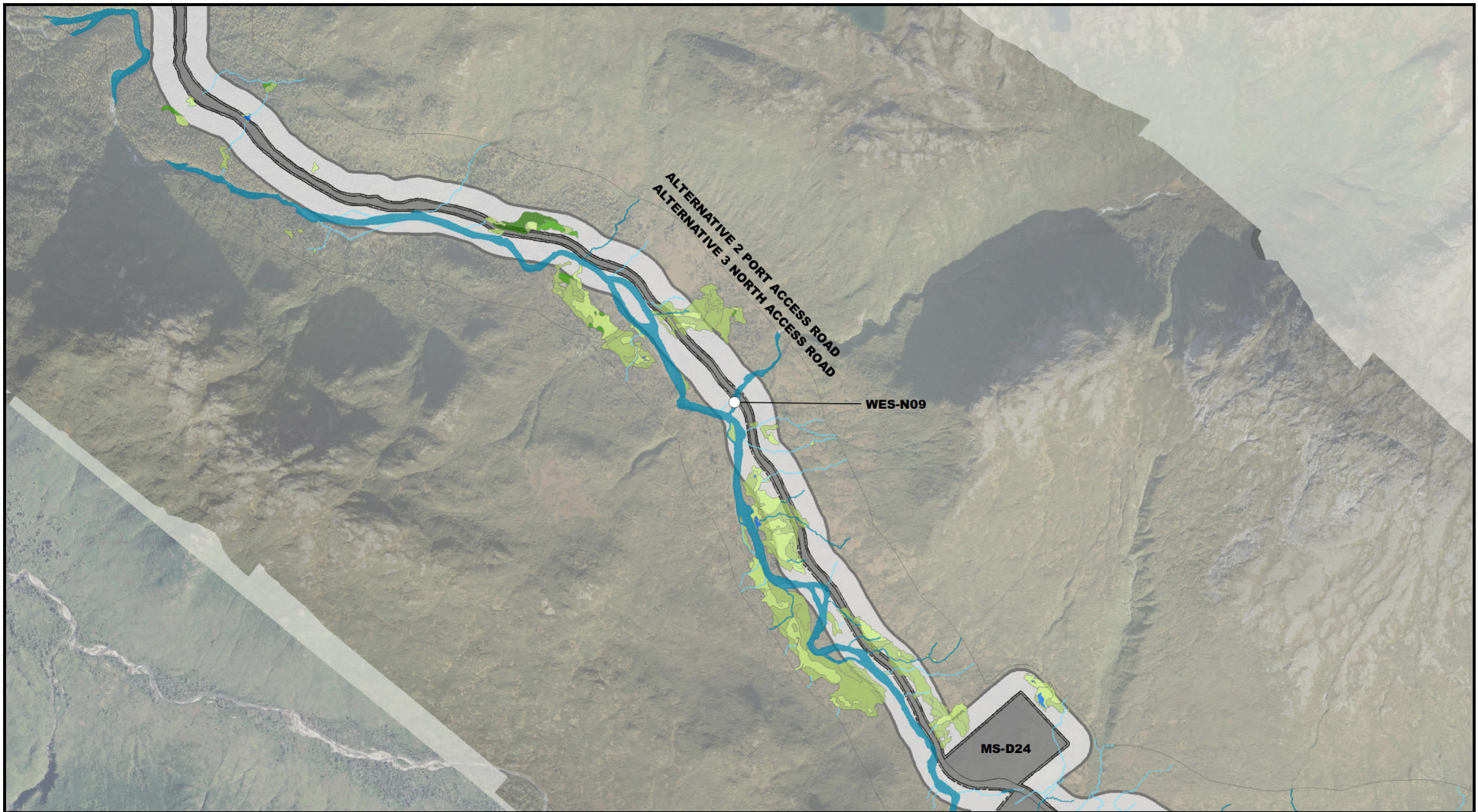
- Evergreen Forest

- Ponds
- Lakes
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

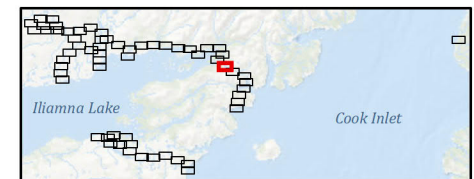
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Evergreen Shrubs

- Evergreen Forest
- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

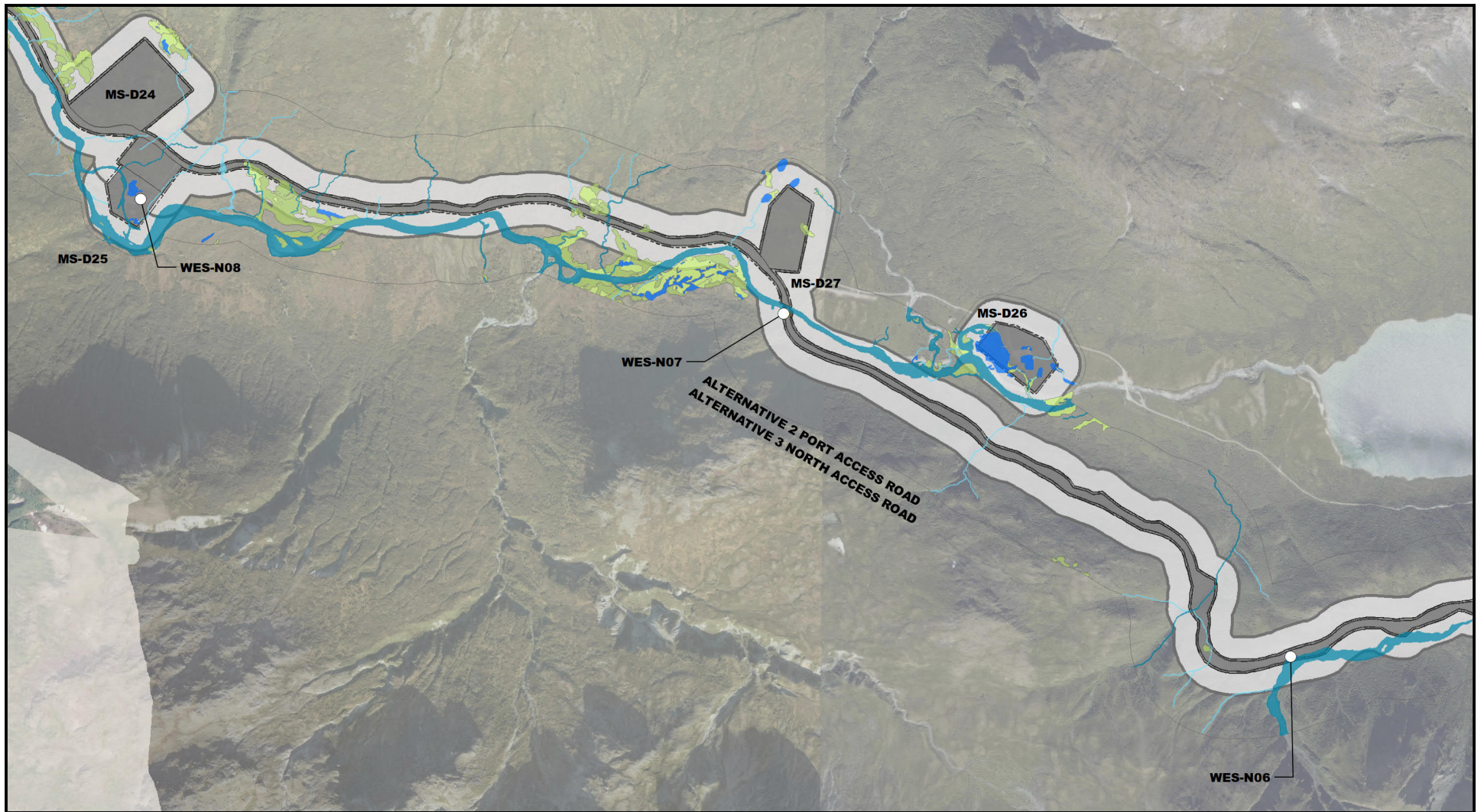


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-54 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

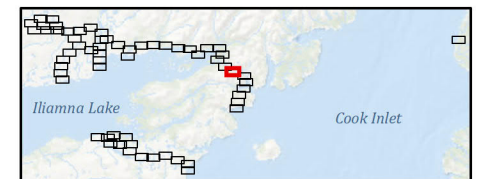
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Wetland/Upland Mosaic
- Uplands/Mapped Wetlands Extent

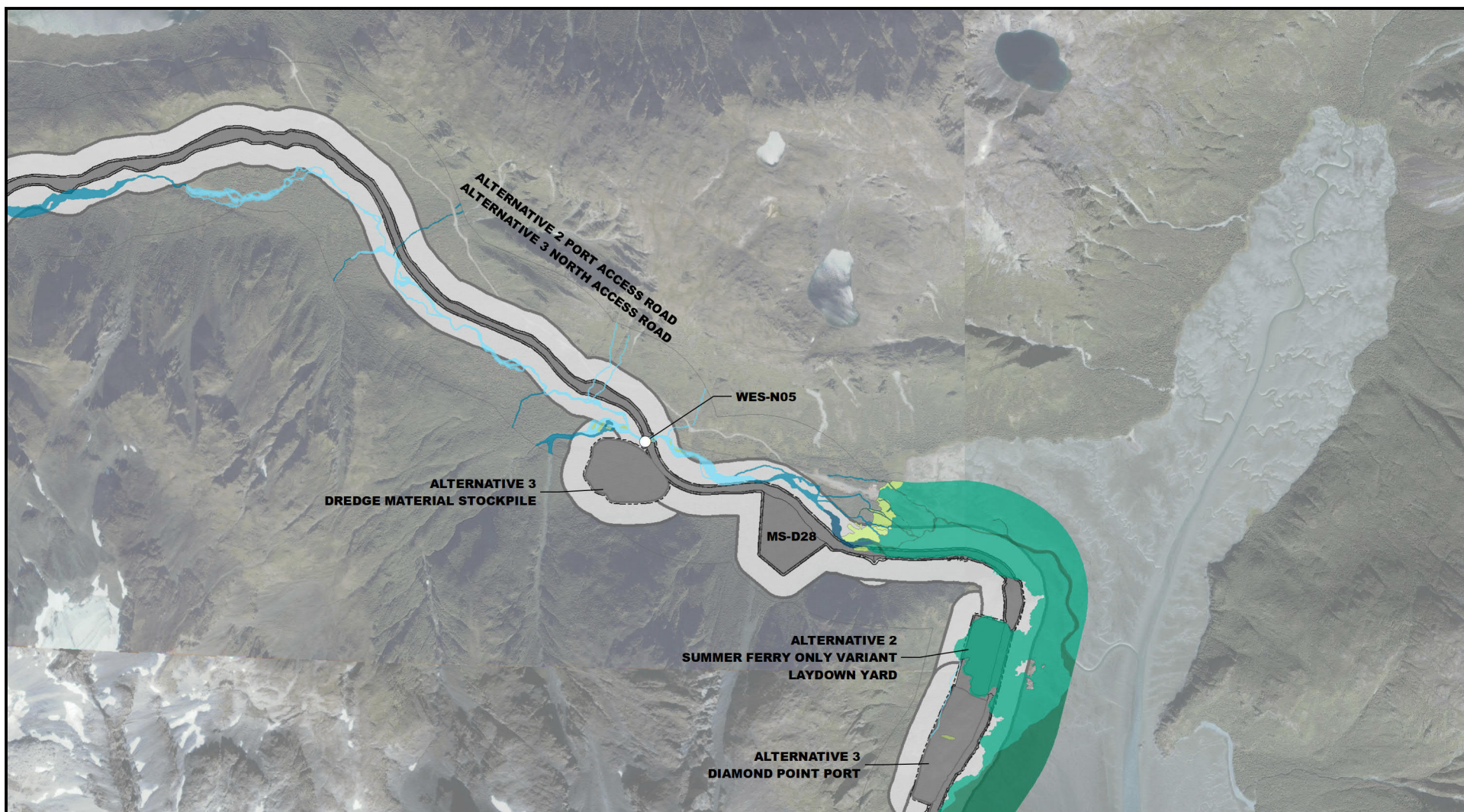


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-55 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

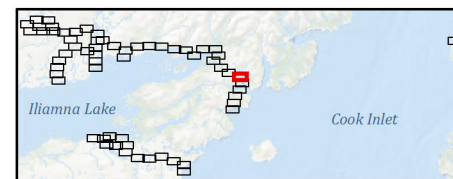
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)

- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Rivers/Streams (Tidal)
- Uplands/Mapped Wetlands Extent

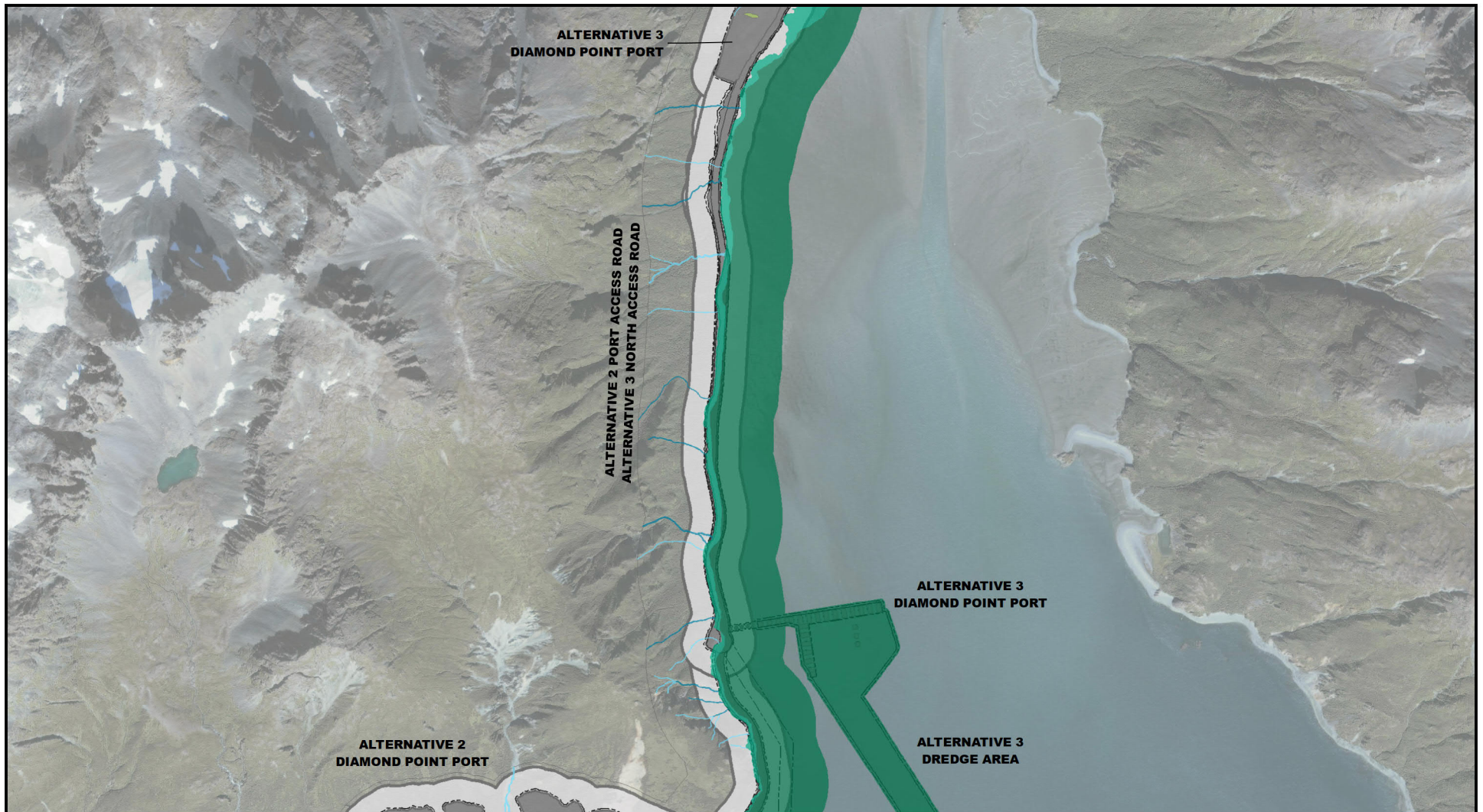


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-56 of 62





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

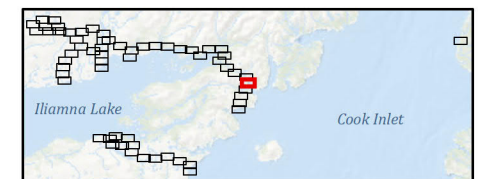
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

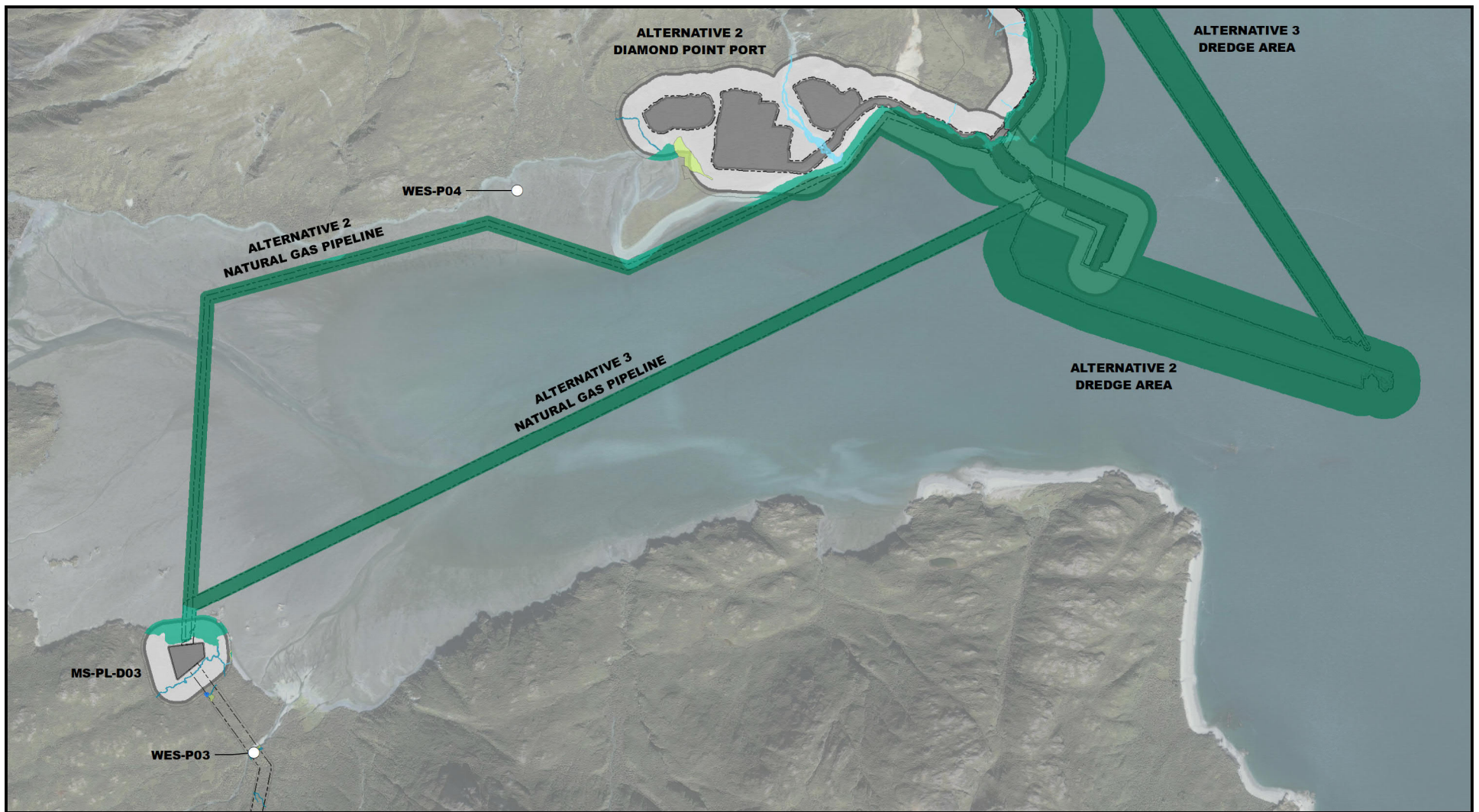
- Broad Leaved Deciduous Shrubs
- Estuarine (Intertidal)

- Estuarine (Subtidal)
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

Permanent

Temporary

**Indirect Impact**

Fugitive Dust

**NWI Classes**

Herbaceous

Broad Leaved Deciduous Shrubs

Estuarine (Intertidal)

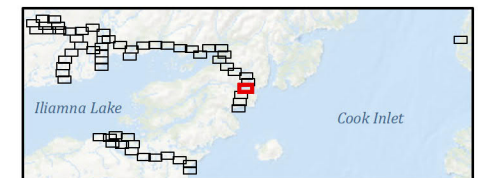
Estuarine (Subtidal)

Ponds

Rivers/Streams (Intermittent)

Rivers/Streams (Perennial)

Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-58 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

#### Direct Impact

- Permanent
- Temporary

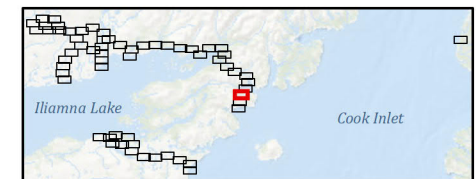
#### Indirect Impact

- Fugitive Dust

#### NWI Classes

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Ponds
- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

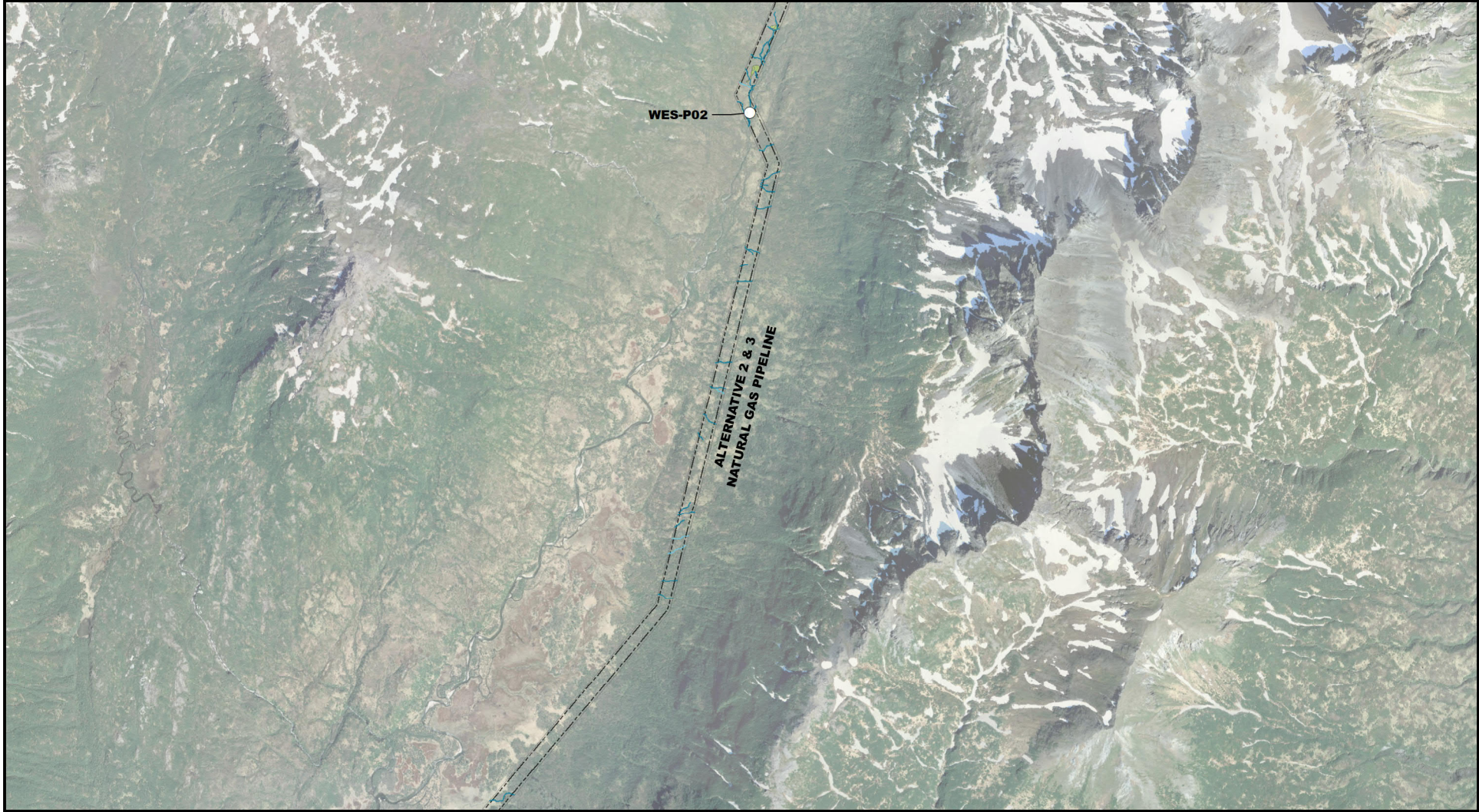


WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-59 of 62

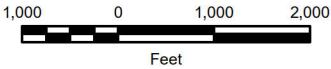




Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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**Direct Impact**

- Permanent
- Temporary

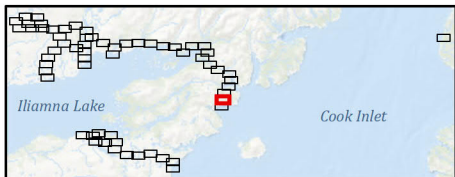
**Indirect Impact**

- ☒ Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Rivers/Streams (Intermittent)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent



**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

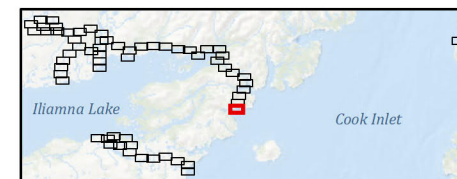
**Indirect Impact**

- Fugitive Dust

**NWI Classes**

- Herbaceous
- Broad Leaved Deciduous Shrubs

- Marine (Intertidal)
- Marine (Subtidal)
- Rivers/Streams (Perennial)
- Uplands/Mapped Wetlands Extent

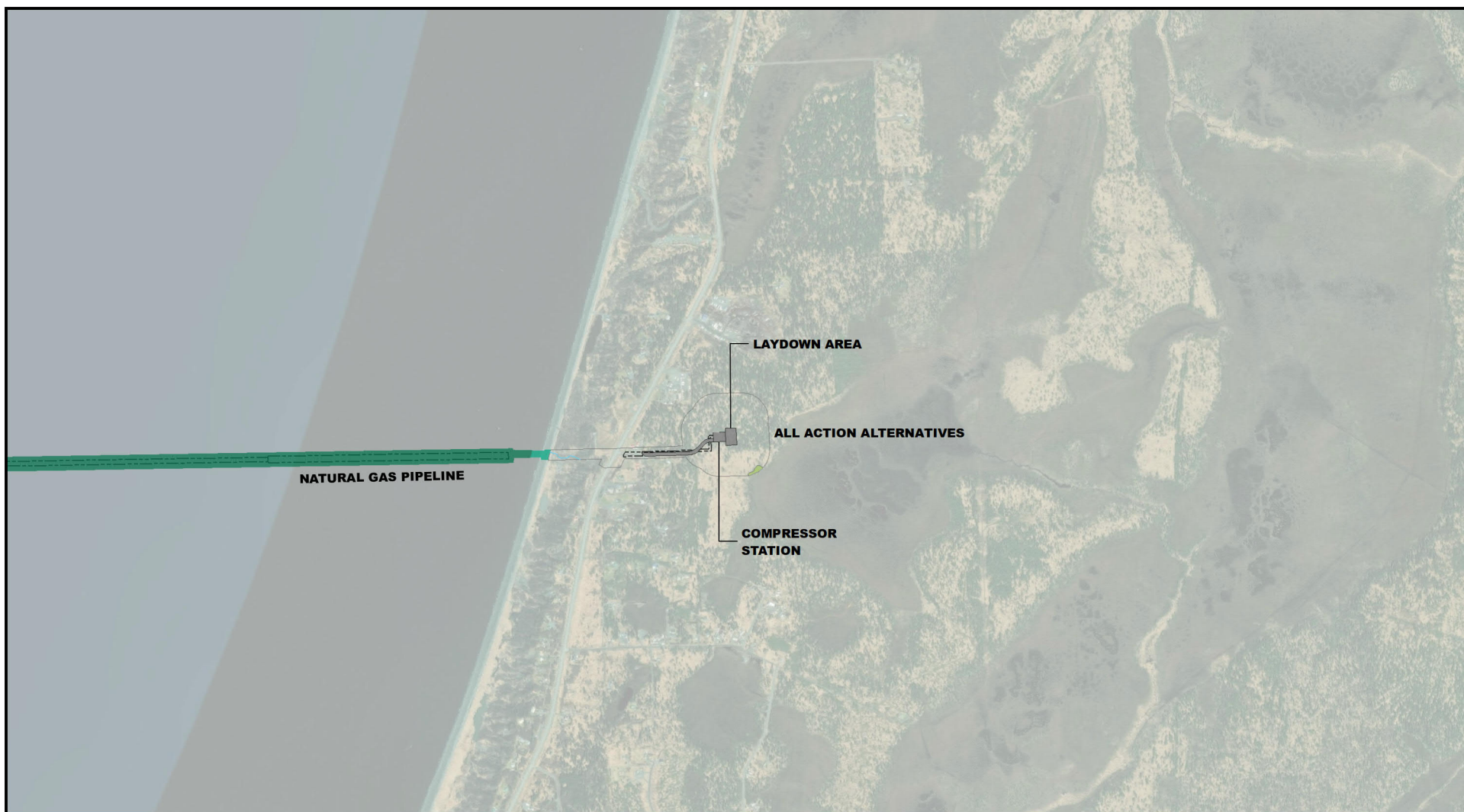


**WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES**

**PEBBLE PROJECT EIS**

**FIGURE K4.22-61 of 62**





Sources: PLP 2019-RFI116; PLP 2020 RFI-168;  
PLP 2019 RFI-153



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1,000 0 1,000 2,000  
Feet

**Direct Impact**

- Permanent
- Temporary

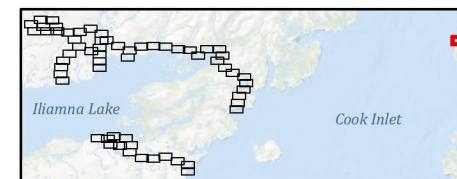
**Indirect Impact**

- ☼ Fugitive Dust

**NWI Classes**

- Broad Leaved Deciduous Shrubs
- Marine (Intertidal)

- Marine (Subtidal)
- Rivers/Streams (Intermittent)
- Uplands/Mapped Wetlands Extent



WETLANDS AND OTHER WATERS/SPECIAL AQUATIC SITES

PEBBLE PROJECT EIS

FIGURE K4.22-62 of 62