

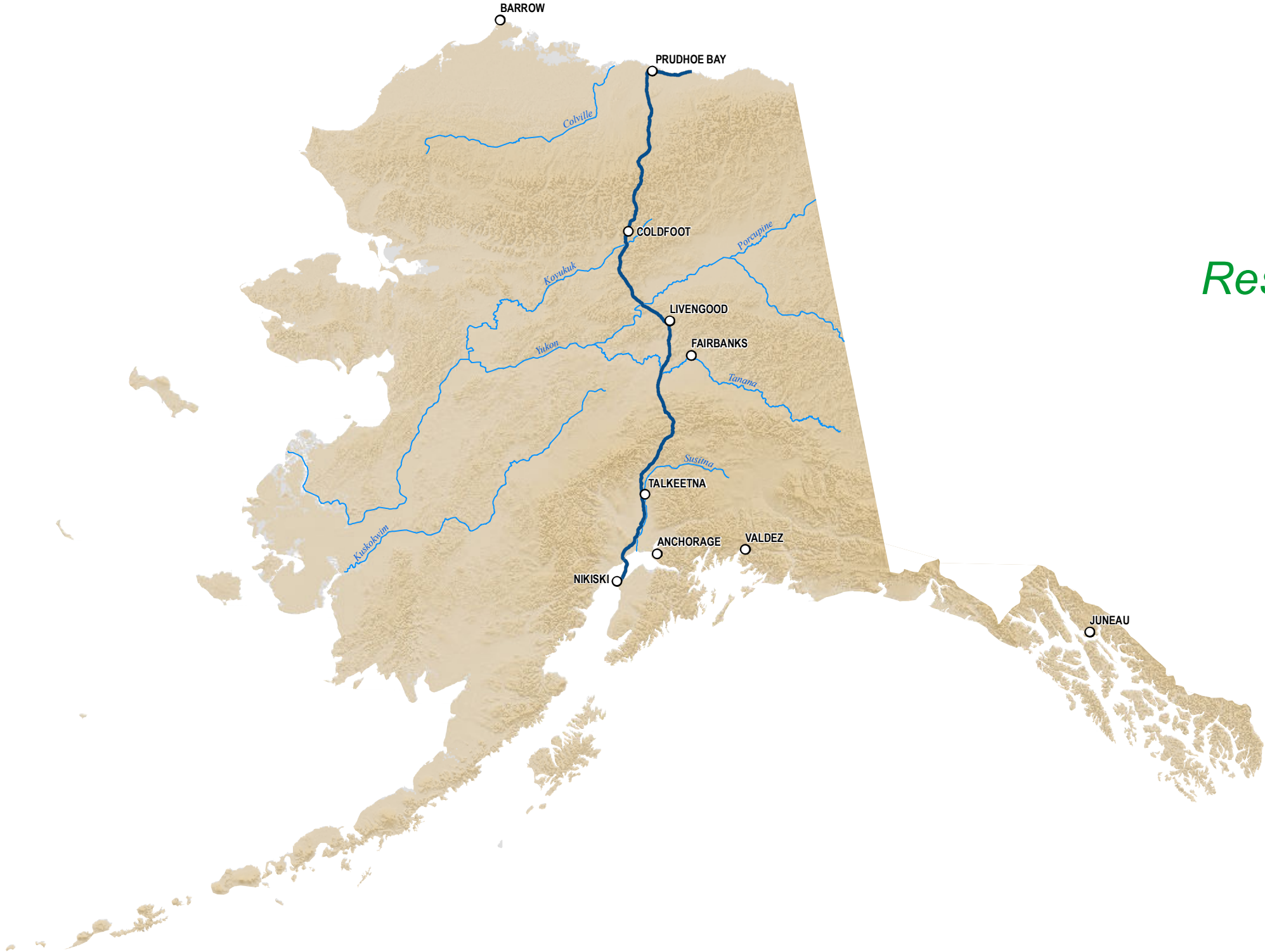
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| ALASKA LNG<br>PROJECT | DOCKET NO. CP17-____-000<br>RESOURCE REPORT NO. 8<br>APPENDIX C<br>PART 9 OF 9 | Doc No: USAKE-PT-SRREG-00-<br>000006-000<br>APRIL 14, 2017<br>REVISION: 0 |
|                       | PUBLIC   |   |

**Part 9 of 9 of Appendix C of Resource Report No. 8**

# Alaska LNG Project

## Contaminated Sites Mainline Rev C2 Route Off ROW Facilities & Access Roads

## Resource Report 8, Appendix C4 Aerial Mapping

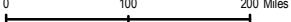


Note:

ADEC Division of Environmental Health performs source water assessments funded by the Environmental Protection Agency (EPA) under the Source Water Assessment and Protection (SWAP) program (ADEC, 2015a). Source water assessments determine the susceptibility of a drinking water system, including groundwater wells, to contamination (Miller, 2009). Source water assessments also determine where drinking water originates. To determine the origination area, groundwater movement within two timeframes is evaluated (although additional timeframes are possible). The first timeframe is several months, "Zone A." The second timeframe is two years, "Zone B." For groundwater, this creates two areas around a wellhead showing the distance groundwater can move within the timeframe. These areas are usually generalized as a representative polygon.

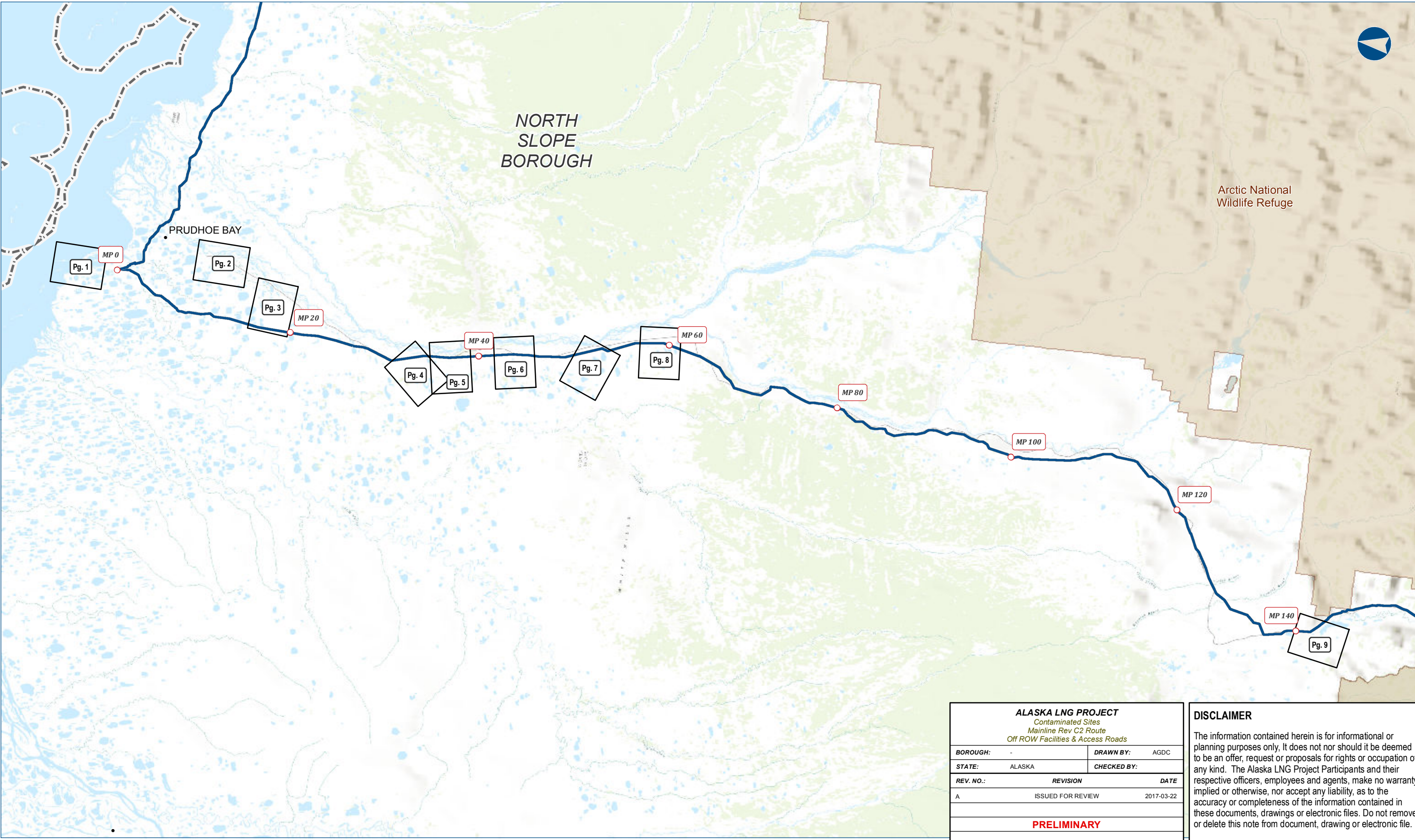
ADEC. 2015a. Overview of Drinking Water Protection in Alaska. Available online at: [http://dec.alaska.gov/eh/dw/DWP/DWP\\_Overview.html](http://dec.alaska.gov/eh/dw/DWP/DWP_Overview.html). Accessed August 2015.

Miller, Chris. 2009. September 22-23. Ground Water Rule Assessment Source Monitoring. Ground Water Rule Workshop.

|   |   |             |
|---|---|-------------|
| <b>ALASKA LNG PROJECT</b><br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |   |             |
| <b>BOROUGH:</b> -   | <b>DRAWN BY:</b> AGDC   |             |
| <b>STATE:</b> ALASKA  | <b>CHECKED BY:</b>  |             |
| <b>REV. NO.:</b>  | <b>REVISION</b>   | <b>DATE</b> |
| A   | ISSUED FOR REVIEW   | 2017-03-22  |
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| 1:10,000,000  |  |             |
| <b>DATE:</b> 2017-03-22   | <b>PROJECTION:</b> NAD 1983 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004                    |             |

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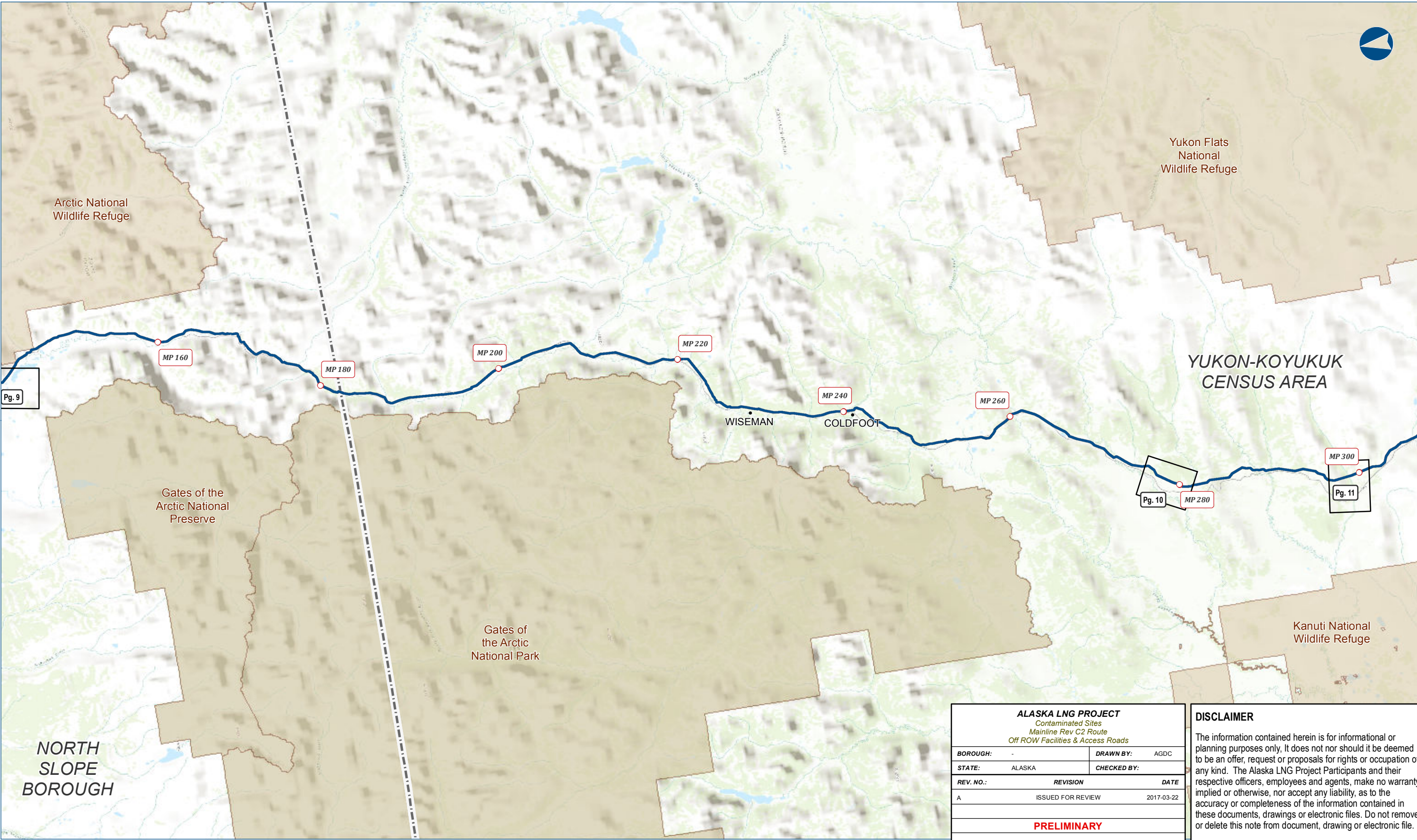
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| ALASKA LNG PROJECT                |  |  |
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| Contaminated Sites                |  |  |
| Mainline Rev C2 Route             |  |  |
| Off ROW Facilities & Access Roads |  |  |
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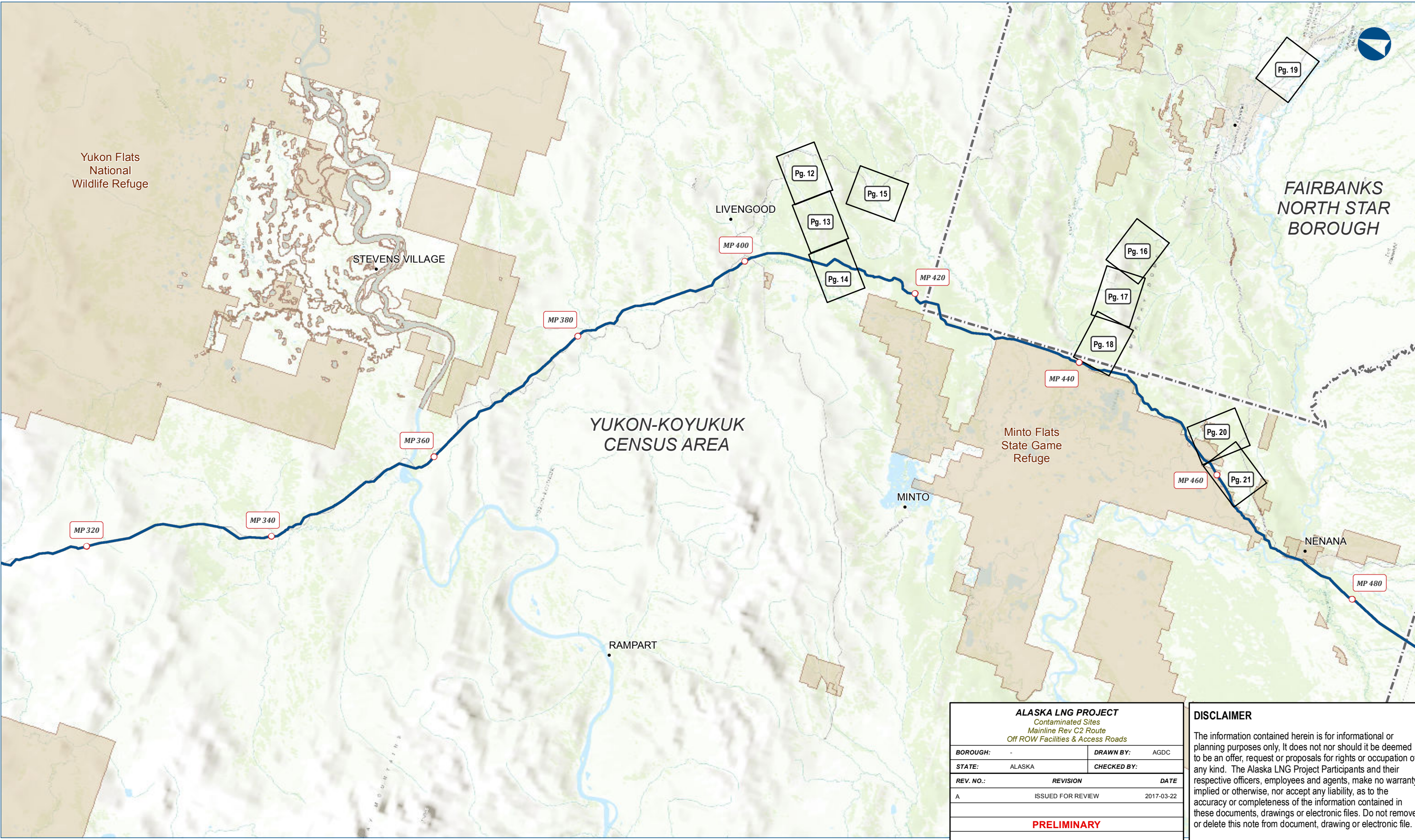
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| ALASKA LNG PROJECT                |  |  |
|-----------------------------------|--|--|
| Contaminated Sites                |  |  |
| Mainline Rev C2 Route             |  |  |
| Off ROW Facilities & Access Roads |  |  |
| BOROUGH:                          | -  | DRAWN BY: AGDC   |
| STATE:                            | ALASKA   | CHECKED BY:  |
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| DATE: 2017-03-22                  | PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004 | DWG: RRB_APPENDIX_C_3_4_ML_OFF_ROW_INDEX_REV_C2_CL SHEET: ML-OFF-INDEX |

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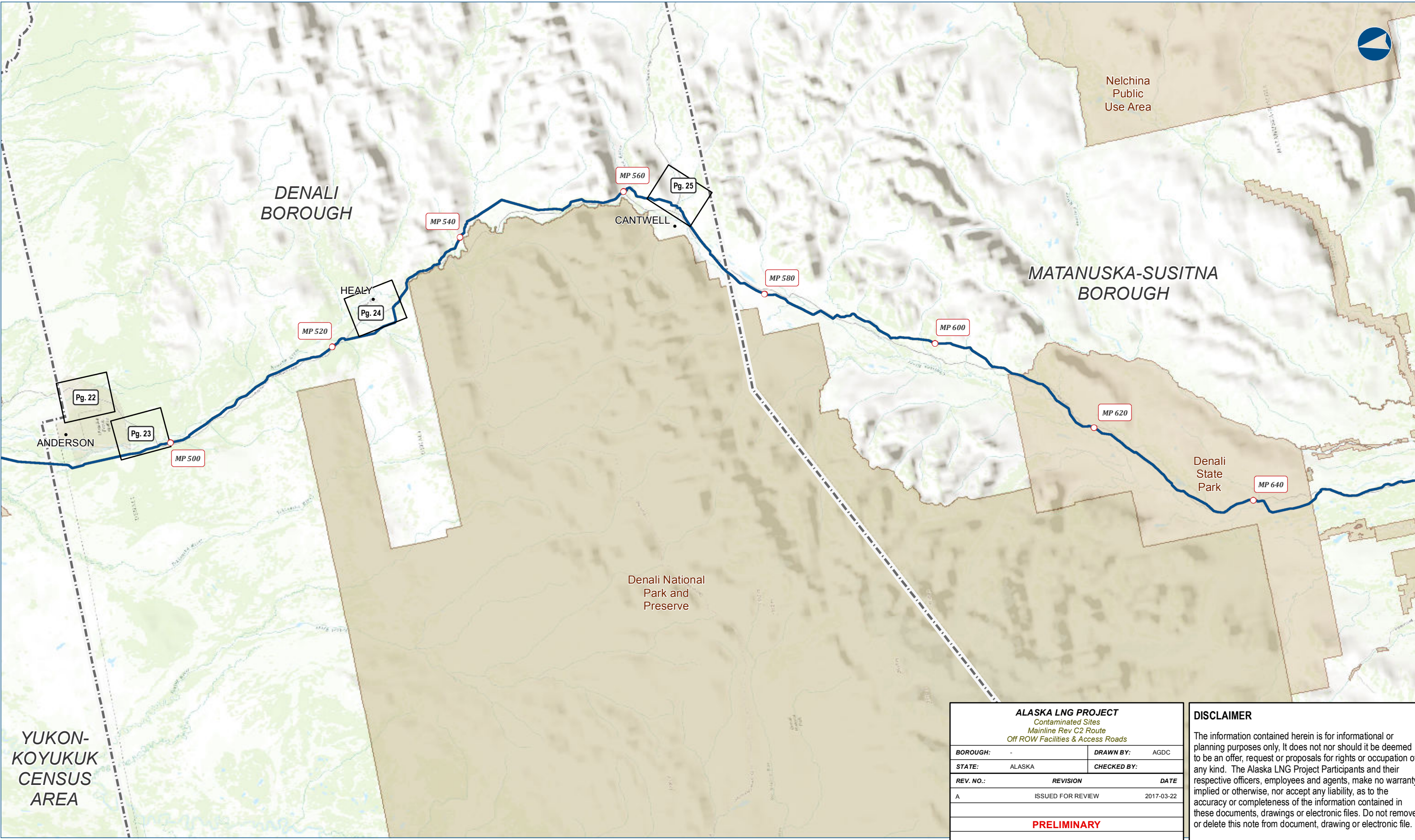
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| ALASKA LNG PROJECT                |  |  |
|-----------------------------------|--|--|
| Contaminated Sites                |  |  |
| Mainline Rev C2 Route             |  |  |
| Off ROW Facilities & Access Roads |  |  |
| BOROUGH:                          | -  | DRAWN BY: AGDC   |
| STATE:                            | ALASKA   | CHECKED BY:  |
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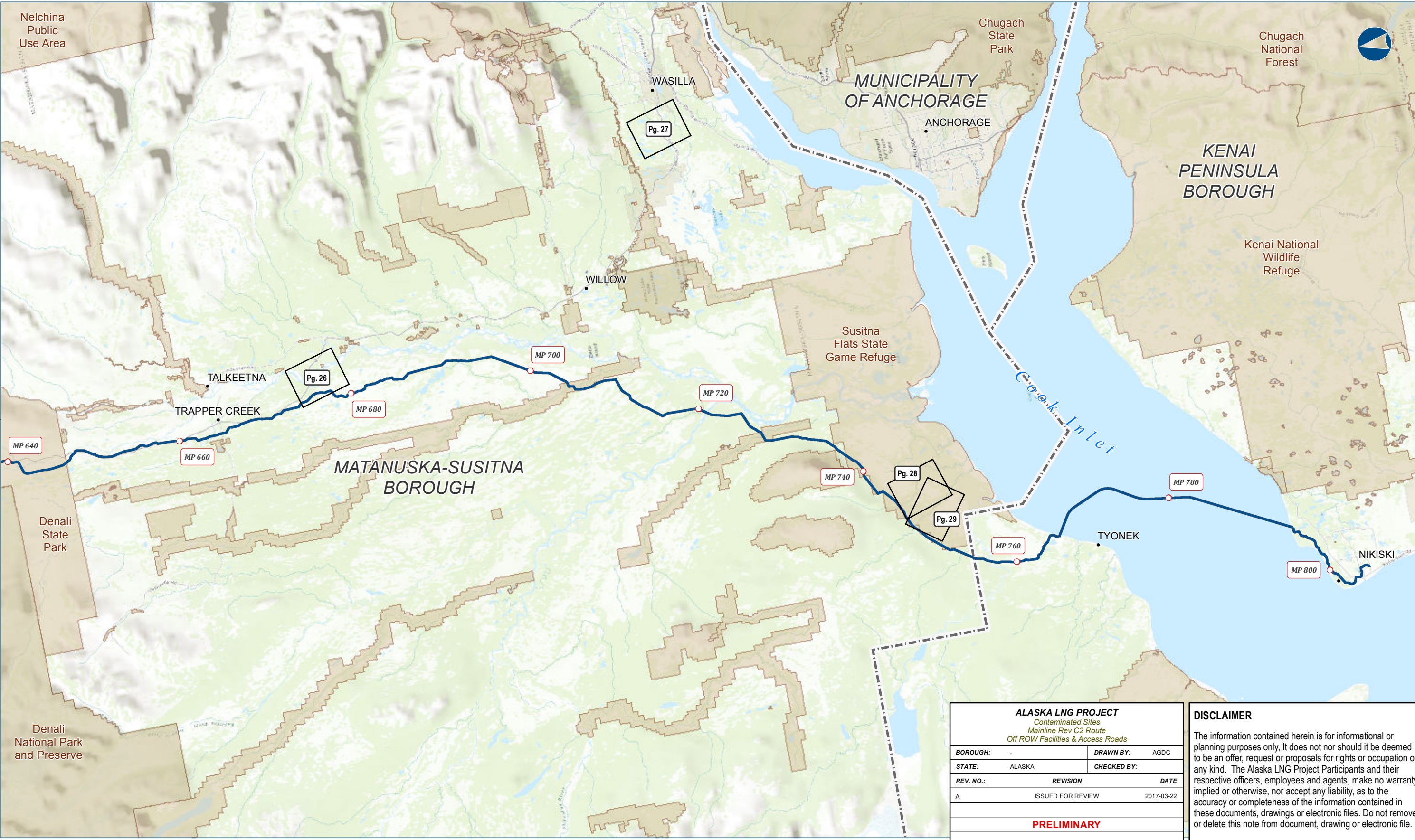


YUKON-KOYUKUK CENSUS AREA

| ALASKA LNG PROJECT                |  |  |
|-----------------------------------|--|--|
| Contaminated Sites                |  |  |
| Mainline Rev C2 Route             |  |  |
| Off ROW Facilities & Access Roads |  |  |
| BOROUGH:                          | -  | DRAWN BY: AGDC   |
| STATE:                            | ALASKA   | CHECKED BY:  |
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| DATE: 2017-03-22                  | PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004 | DWG: RRB_APPENDIX_C_3_4_ML_OFF_ROW_INDEX_REV_C2_CL SHEET: ML-OFF-INDEX |

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| ALASKA LNG PROJECT                |  |  |
|-----------------------------------|--|--|
| Contaminated Sites                |  |  |
| Mainline Rev C2 Route             |  |  |
| Off ROW Facilities & Access Roads |  |  |
| BOROUGH:                          | -  | DRAWN BY: AGDC   |
| STATE:                            | ALASKA   | CHECKED BY:  |
| REV. NO.:                         | REVISION   | DATE   |
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| DATE: 2017-03-22                  | PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004 | DWG: RRB_APPENDIX_C_3_4_ML_OFF_ROW_INDEX_REV_C2_CL SHEET: ML-OFF-INDEX |

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Alaska LNG Project

**Legend**

GTP Footprint - Construction

Alaska LNG Rev C2 Route

Permanent ROW

Construction ROW

ATWS

**EXISTING FEATURES**

Existing Roads

Off Road Trails

Existing Pipeline

Overhead Powerline

**Section**

Cleanup Complete

Cleanup Complete - Institutional Controls

**Township**

Surface Water Rights

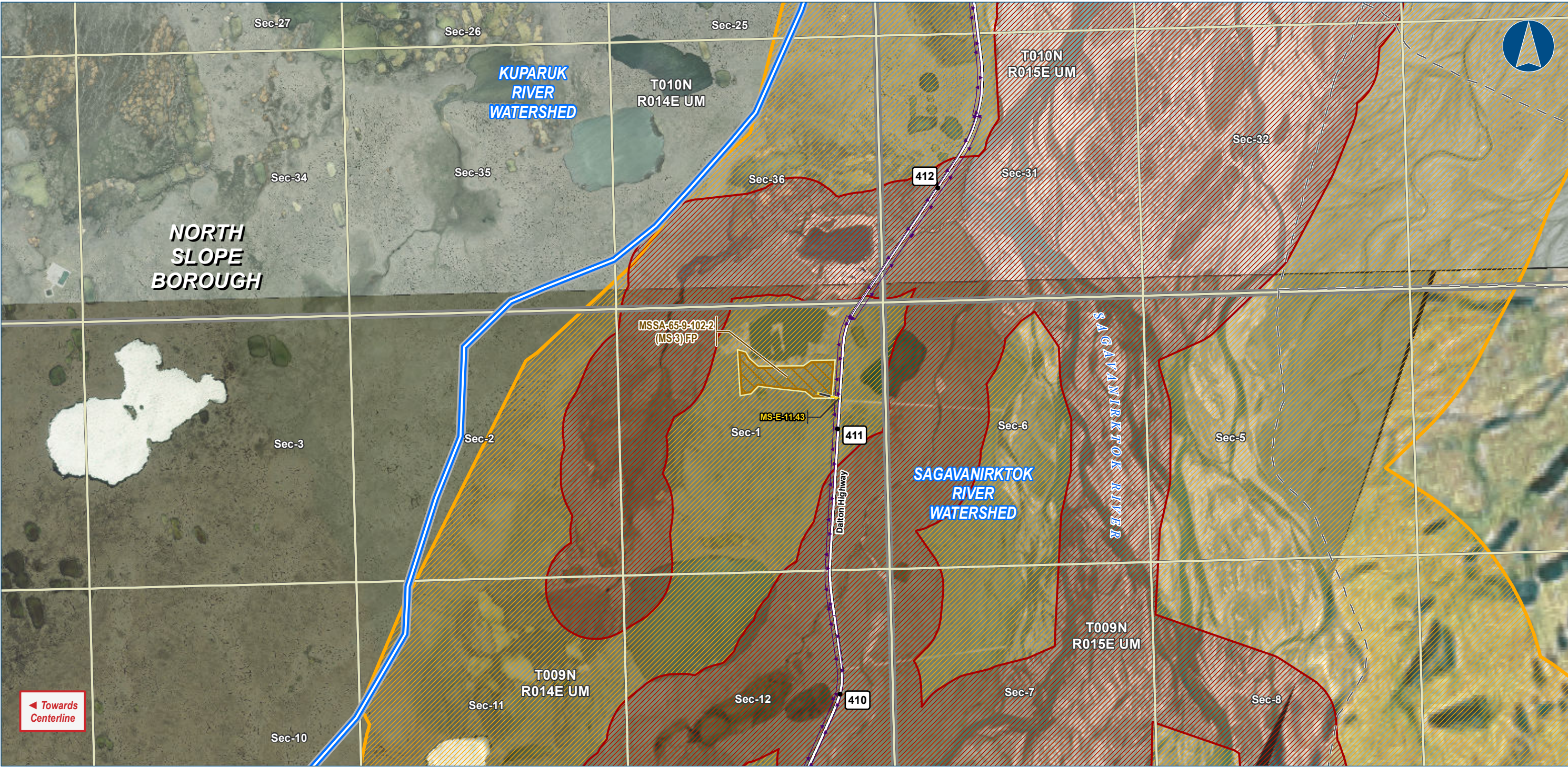
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|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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SHEET: 1



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Off Road Trails
- Buried Cable
- Watershed Boundary

**Section**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)

**Township**

- Drinking Water - Zone A
- Drinking Water - Zone B

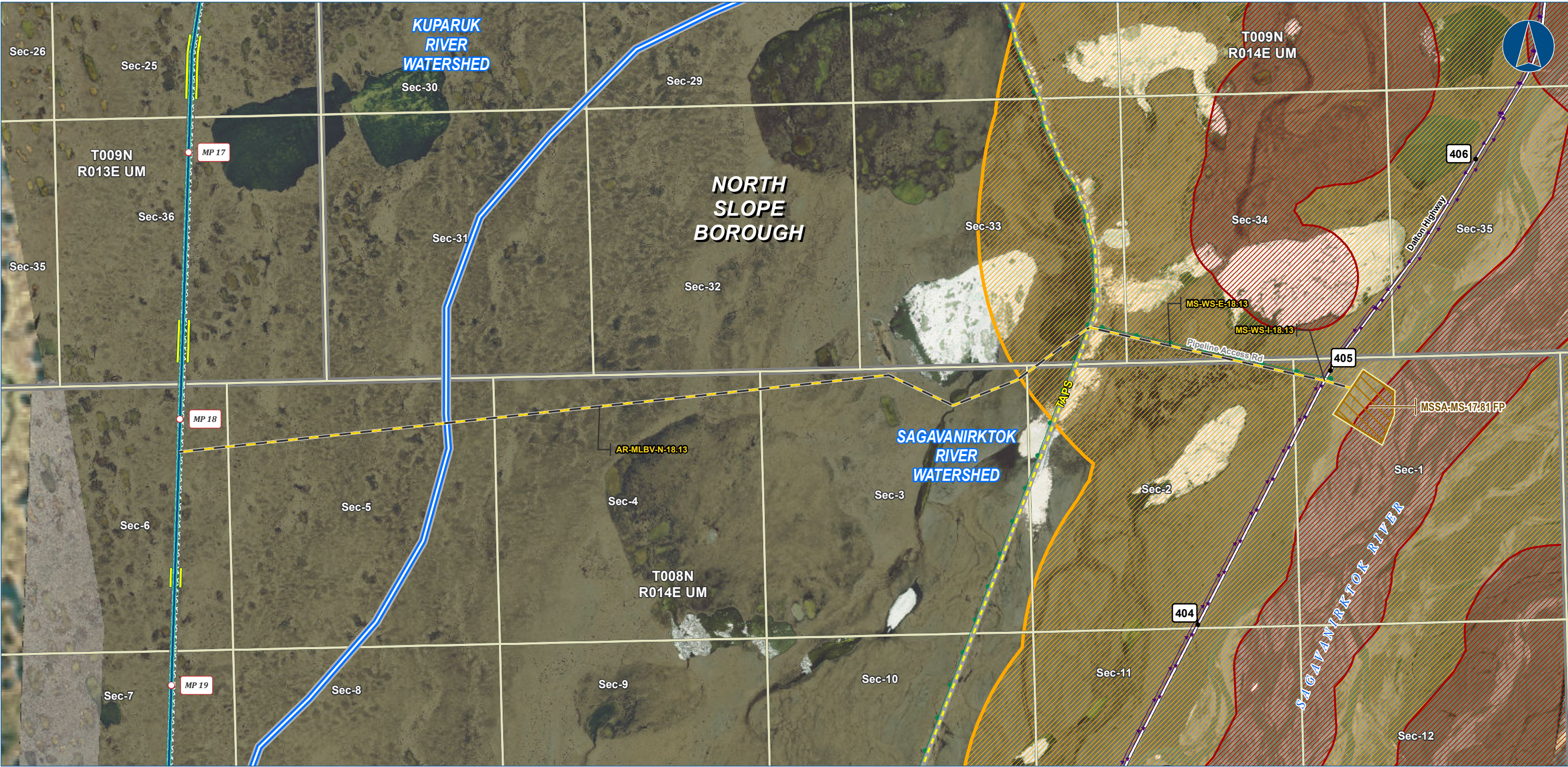
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|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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SHEET: 2



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- TAPS
- Existing Pipeline
- Buried Cable
- Watershed Boundary

**Section**

- Section

**Township**

- Township
- Drinking Water - Zone A
- Drinking Water - Zone B

**Other**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)

| ALASKA LNG PROJECT                    |                   |             |
|---------------------------------------|-------------------|-------------|
| Contaminated Sites                    |                   |             |
| Mainline Rev C2 Route                 |                   |             |
| Off ROW Facilities & Access Roads     |                   |             |
| BOROUGH:                              | NORTH SLOPE       | DRAWN BY:   |
| STATE:                                | ALASKA            | CHECKED BY: |
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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 3



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Access Road - Ice

**EXISTING FEATURES**

- Existing Roads
- TAPS
- Existing Pipeline
- Buried Cable
- Watershed Boundary

**Other Symbols**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)
- Section
- Township

| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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| PRELIMINARY                       |                   |                                       |
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SHEET: 4



Alaska LNG Project

| Legend                  |  | EXISTING FEATURES |  | Section            |  | Township |  |
|-------------------------|--|-------------------|--|--------------------|--|----------|--|
| PIPELINE                |  | Permanent ROW     |  | Existing Roads     |  | Section  |  |
| Alaska LNG Rev C2 Route |  | Construction ROW  |  | TAPS               |  | Township |  |
| Access Road - Gravel    |  | ATWS              |  | Existing Pipeline  |  |          |  |
| Access Road - Ice       |  |                   |  | Buried Cable       |  |          |  |
| Mainline Blockvalve     |  |                   |  | Watershed Boundary |  |          |  |
| Helipad                 |  |                   |  |                    |  |          |  |

| ALASKA LNG PROJECT                    |                   |             |
|---------------------------------------|-------------------|-------------|
| Contaminated Sites                    |                   |             |
| Mainline Rev C2 Route                 |                   |             |
| Off ROW Facilities & Access Roads     |                   |             |
| BOROUGH:                              | NORTH SLOPE       | DRAWN BY:   |
| STATE:                                | ALASKA            | CHECKED BY: |
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Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Access Road - Ice

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Pipe Storage Yard (PSY)
- Existing Roads
- TAPS
- Existing Pipeline
- Buried Cable
- Watershed Boundary

**Section**

- ADEC Contaminated Sites
- Cleanup Complete - Institutional Controls

**Township**

- ADEC Solid Waste Sites
- Retired
- Subsurface Water Rights

| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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Alaska LNG Project















| Legend                  |                          |
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| <b>PIPELINE</b>         | <b>EXISTING FEATURES</b> |
| Alaska LNG Rev C2 Route | Existing Roads           |
| Access Road - Ice       | Off Road Trails          |
|                         | TAPS                     |
|                         | Existing Pipeline        |
|                         | Buried Cable             |
|                         | Watershed Boundary       |
|                         | Section                  |
|                         | Township                 |
|                         | Surface Water Rights     |
|                         | Permanent ROW            |
|                         | Construction ROW         |
|                         | ATWS                     |

| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY:                             |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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| DWG:  | RR8_APPENDIX_C4_ML_OFF_ROW_AERIAL_REV_C2_CL |
| SHEET:  | 7   |



**Legend**

|   |  |  |   |  |
|---|--|--|---|--|
| <b><u>PIPELINE</u></b>  |  Permanent ROW    | <b><u>EXISTING FEATURES</u></b>  |  Section |  Township |
|  Alaska LNG Rev C2 Route |  Construction ROW |  Existing Roads     |   |  |
|  Access Road - Gravel    |  ATWS             |  Off Road Trails    |   |  |
|  Access Road - Ice       |  |  TAPS               |   |  |
|   |  |  Existing Pipeline  |   |  |
|   |  |  Buried Cable       |   |  |
|   |  |  Watershed Boundary |   |  |

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Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**PERMANENT ROW**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Pipe Storage Yard (PSY)
- Material Site Study Area (MSSA)

**EXISTING FEATURES**

- Existing Roads
- Off Road Trails
- TAPS
- Existing Pipeline
- Buried Cable

**SECTION**

- Section

**ADEC Contaminated Sites**

- Cleanup Complete
- Cleanup Complete - Institutional Controls

**TOWNSHIP**

- Township
- Subsurface Water Rights

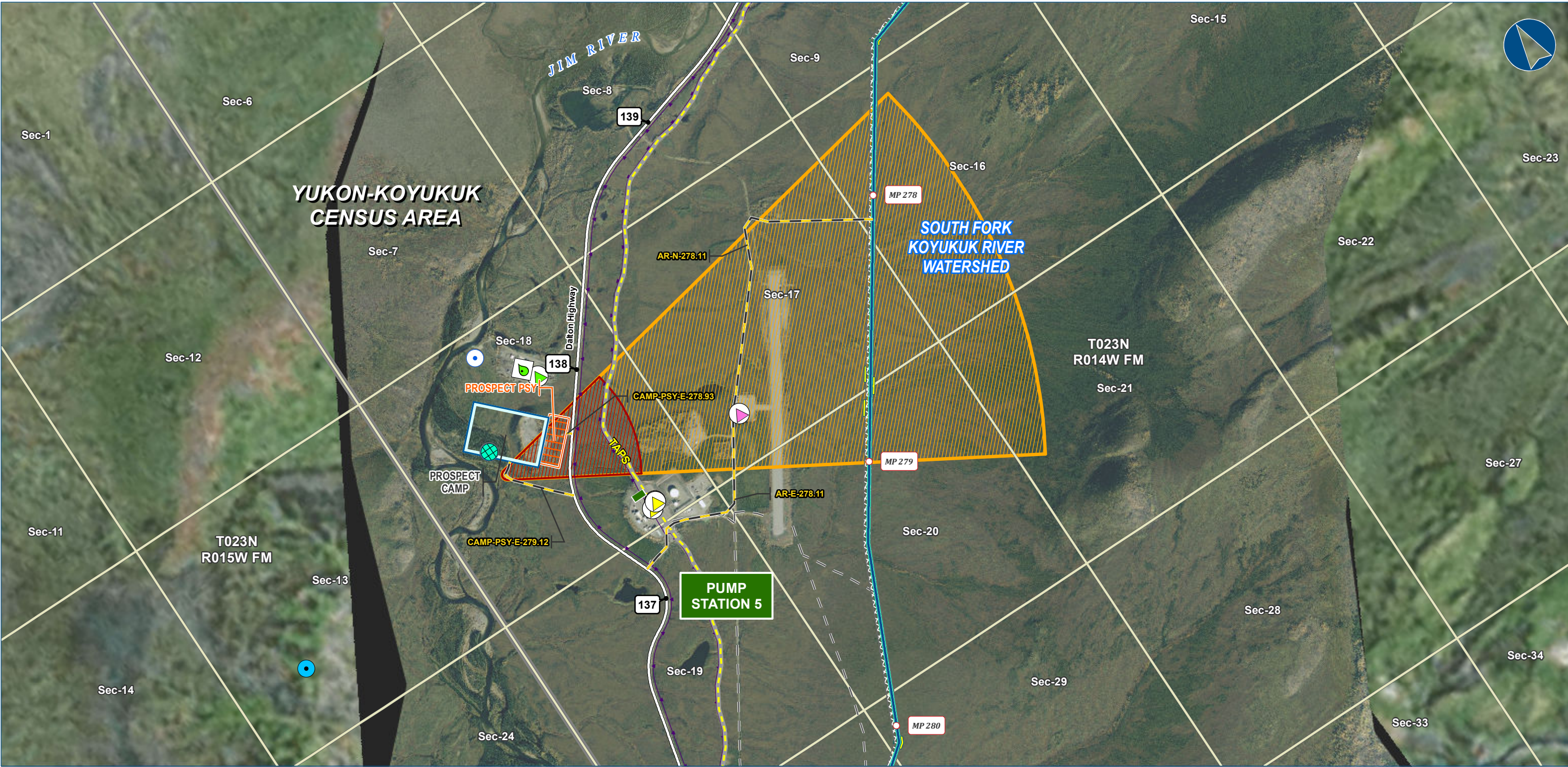
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | NORTH SLOPE       | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000                          |                   |                                       |
| 0 1/4 1/2 Miles                   |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 9



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Pipe Storage Yard (PSY)
- Existing Roads
- Off Road Trails
- TAPS
- Buried Cable
- Alaska DOT Place Names

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete

**ADEC Contaminated Sites**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open

**Section**

- Section

**Township**

- Township

**Water Well Location (WELTS)**

- Surface Water Rights
- Subsurface Water Rights

**Drinking Water - Zone A**

- Drinking Water - Zone A
- Drinking Water - Zone B

| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |   |            |
|--|---|------------|
| CENSUS AREA: YUKON-KOYUKUK   | DRAWN BY: AGDC                                    |            |
| STATE: ALASKA  | CHECKED BY:                                       |            |
| REV. NO.:  | REVISION  | DATE       |
| A  | ISSUED FOR REVIEW                                 | 2017-03-23 |
| PRELIMINARY  |   |            |
| 1:24,000   | 0 1/4 1/2 Miles                                   |            |
| DATE: 2017-03-23   | PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |            |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 10



Alaska LNG Project

| Legend                  |                            |
|-------------------------|----------------------------|
| <b>PIPELINE</b>         | <b>EXISTING FEATURES</b>   |
| Alaska LNG Rev C2 Route | Existing Roads             |
| Access Road - Gravel    | Revised Statute 2477 Trail |
|                         | Off Road Trails            |
|                         | TAPS                       |
|                         | Buried Cable               |
|                         | Section                    |
|                         | Township                   |

| ALASKA LNG PROJECT                |   |            |
|-----------------------------------|---|------------|
| Contaminated Sites                |   |            |
| Mainline Rev C2 Route             |   |            |
| Off ROW Facilities & Access Roads |   |            |
| CENSUS AREA: YUKON-KOYUKUK        | DRAWN BY: AGDC                                    |            |
| STATE: ALASKA                     | CHECKED BY:                                       |            |
| REV. NO.:                         | REVISION  | DATE       |
| A                                 | ISSUED FOR REVIEW                                 | 2017-03-23 |
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| 0 1/4 1/2 Miles                   |   |            |
| DATE: 2017-03-23                  | PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |            |

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| DWG: RRB_APPENDIX_C4_ML_OFF_ROW_AERIAL_REV_C2_CL SHEET: 11  |



Alaska LNG Project

- Legend**

**PIPELINE**

  - Alaska LNG Rev C2 Route
  - Access Road - Gravel
- EXISTING FEATURES**

  - Permanent ROW
  - Construction ROW
  - ATWS
  - Existing Roads
  - Off Road Trails
  - Buried Cable
- Section**

  - Section
  - Township
  - Surface Water Rights

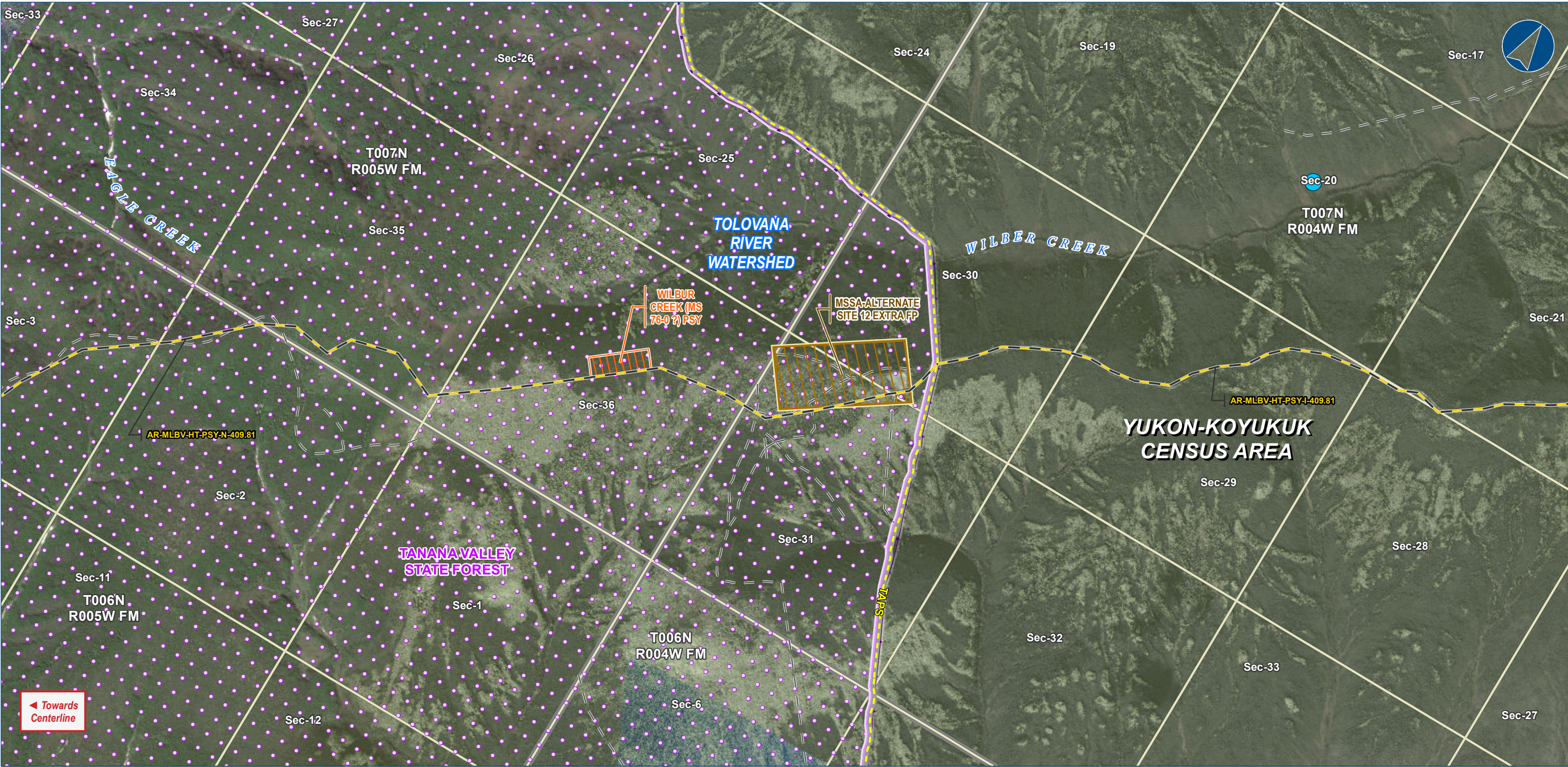
| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |   |            |
|--|---|------------|
| CENSUS AREA: YUKON-KOYUKUK   | DRAWN BY: AGDC                                    |            |
| STATE: ALASKA  | CHECKED BY:                                       |            |
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| PRELIMINARY  |   |            |
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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 12

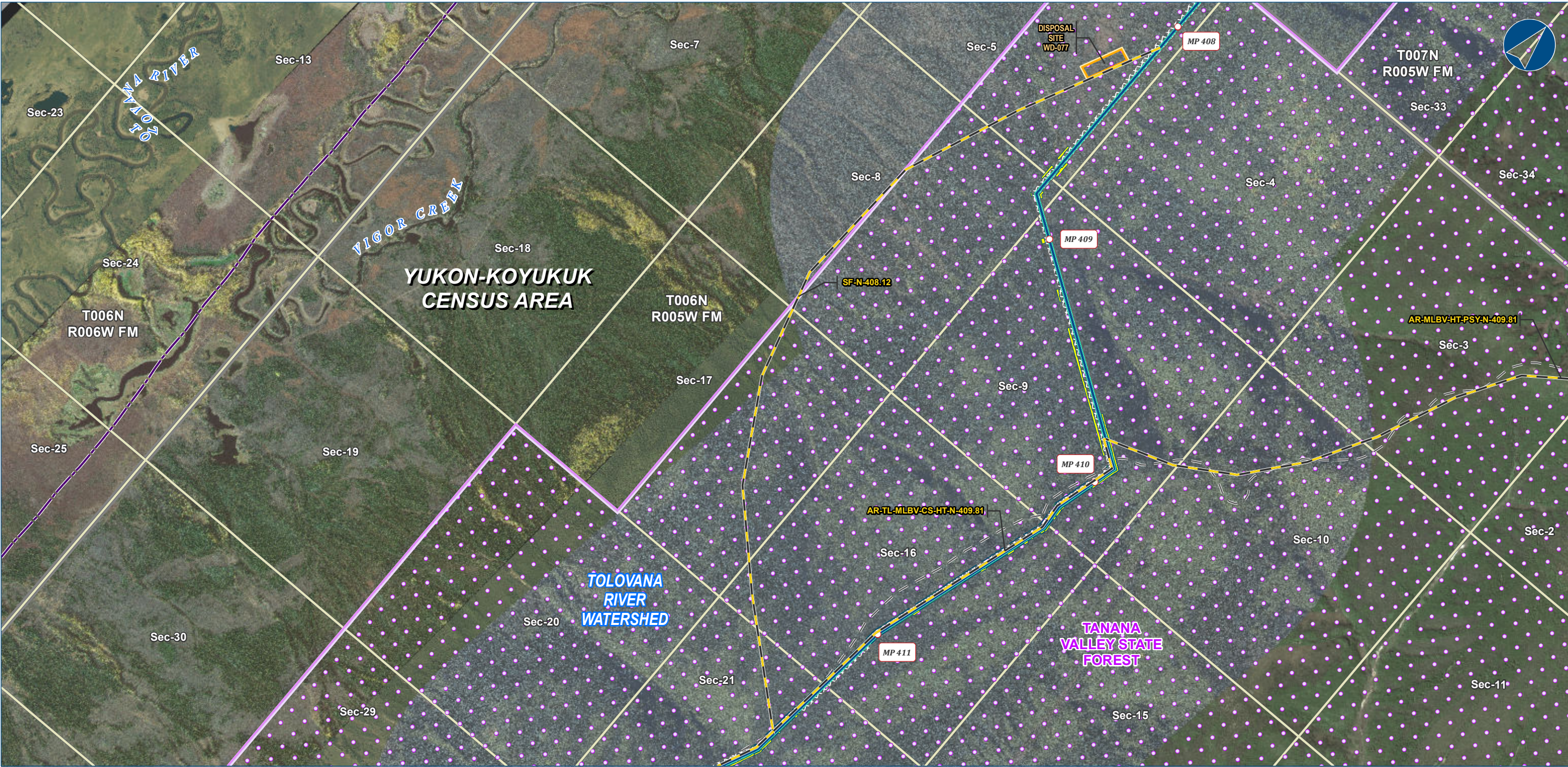


Alaska LNG Project

| Legend                          |                          |
|---------------------------------|--------------------------|
| <b>PIPELINE</b>                 | <b>EXISTING FEATURES</b> |
| Alaska LNG Rev C2 Route         | Existing Roads           |
| Access Road - Gravel            | Off Road Trails          |
| Permanent ROW                   | TAPS                     |
| Construction ROW                | Buried Cable             |
| ATWS                            | Conservation Lands       |
| Pipe Storage Yard (PSY)         |                          |
| Material Site Study Area (MSSA) |                          |
|                                 | Section                  |
|                                 | Township                 |
|                                 | Surface Water Rights     |

| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |   |            |
|--|---|------------|
| CENSUS AREA: YUKON-KOYUKUK   | DRAWN BY: AGDC                                    |            |
| STATE: ALASKA  | CHECKED BY:                                       |            |
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Alaska LNG Project

| Legend                  |  | EXISTING FEATURES |                            | Section | Township |
|-------------------------|--|-------------------|----------------------------|---------|----------|
| PIPELINE                |  | Permanent ROW     | Existing Roads             |         |          |
| Alaska LNG Rev C2 Route |  | Construction ROW  | Revised Statute 2477 Trail |         |          |
| Access Road - Gravel    |  | ATWS              | Off Road Trails            |         |          |
|                         |  | Disposal Site     | Conservation Lands         |         |          |

| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| CENSUS AREA:                      | YUKON-KOYUKUK     | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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| PRELIMINARY                       |                   |                                       |
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| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Off Road Trails
- TAPS
- Existing Pipeline
- Buried Cable
- Alaska DOT Place Names

**Section**

- Section

**ADEC Contaminated Sites**

- Cleanup Complete
- Cleanup Complete - Institutional Controls

**ADEC Solid Waste Sites**

- Retired

**Water Well Location (WELTS)**

- Subsurface Water Rights

**Drinking Water - Zone A**

- Drinking Water - Zone B

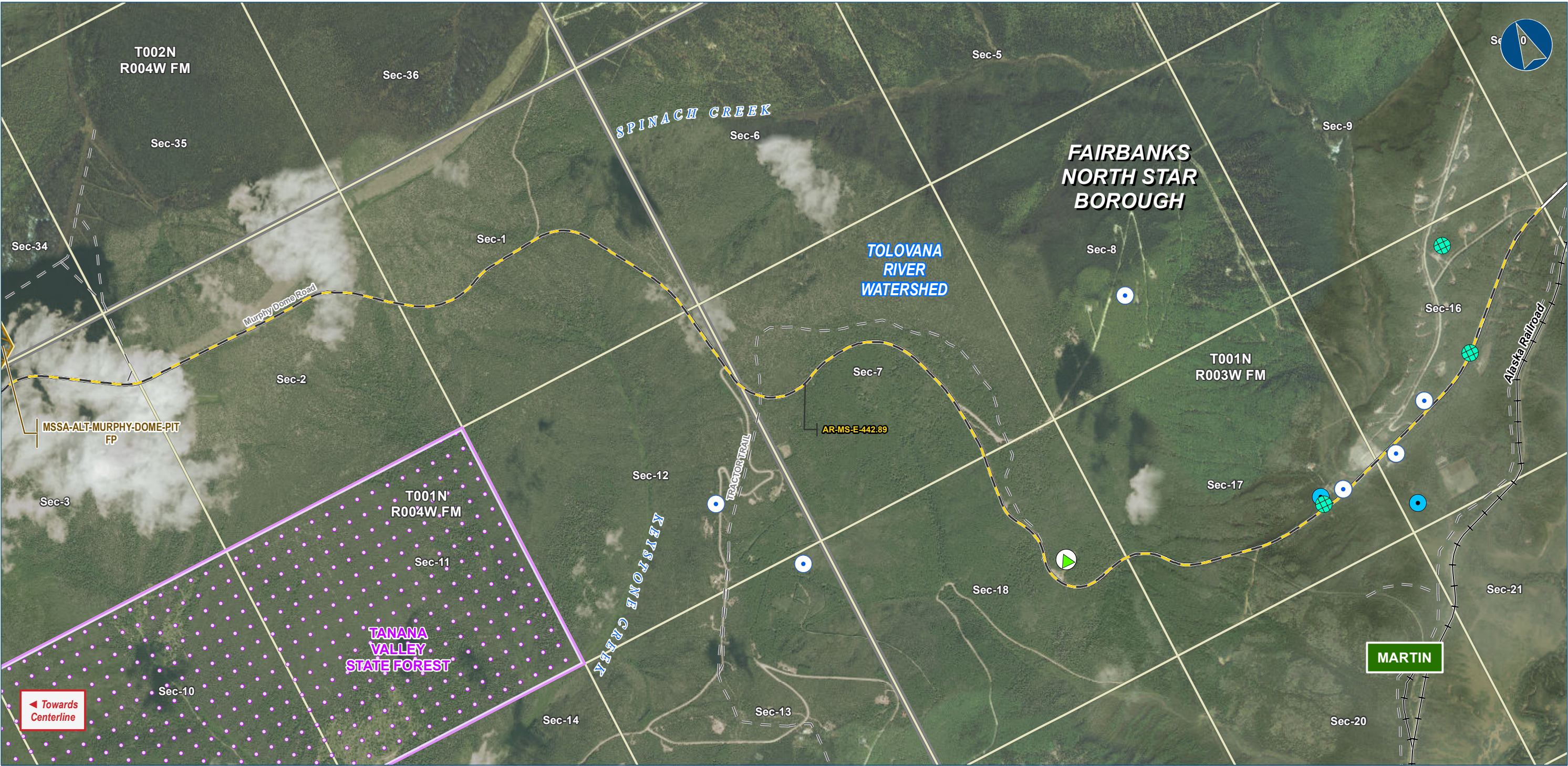
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| CENSUS AREA:                      | YUKON-KOYUKUK     | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
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SHEET: 15



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Off Road Trails
- Conservation Lands
- Alaska DOT Place Names

**Section**

- Section

**ADEC Contaminated Sites**

- Cleanup Complete

**Township**

- Township

**Water Well Location (WELTS)**

- Water Well Location (WELTS)
- Surface Water Rights
- Subsurface Water Rights

**Other Features**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)

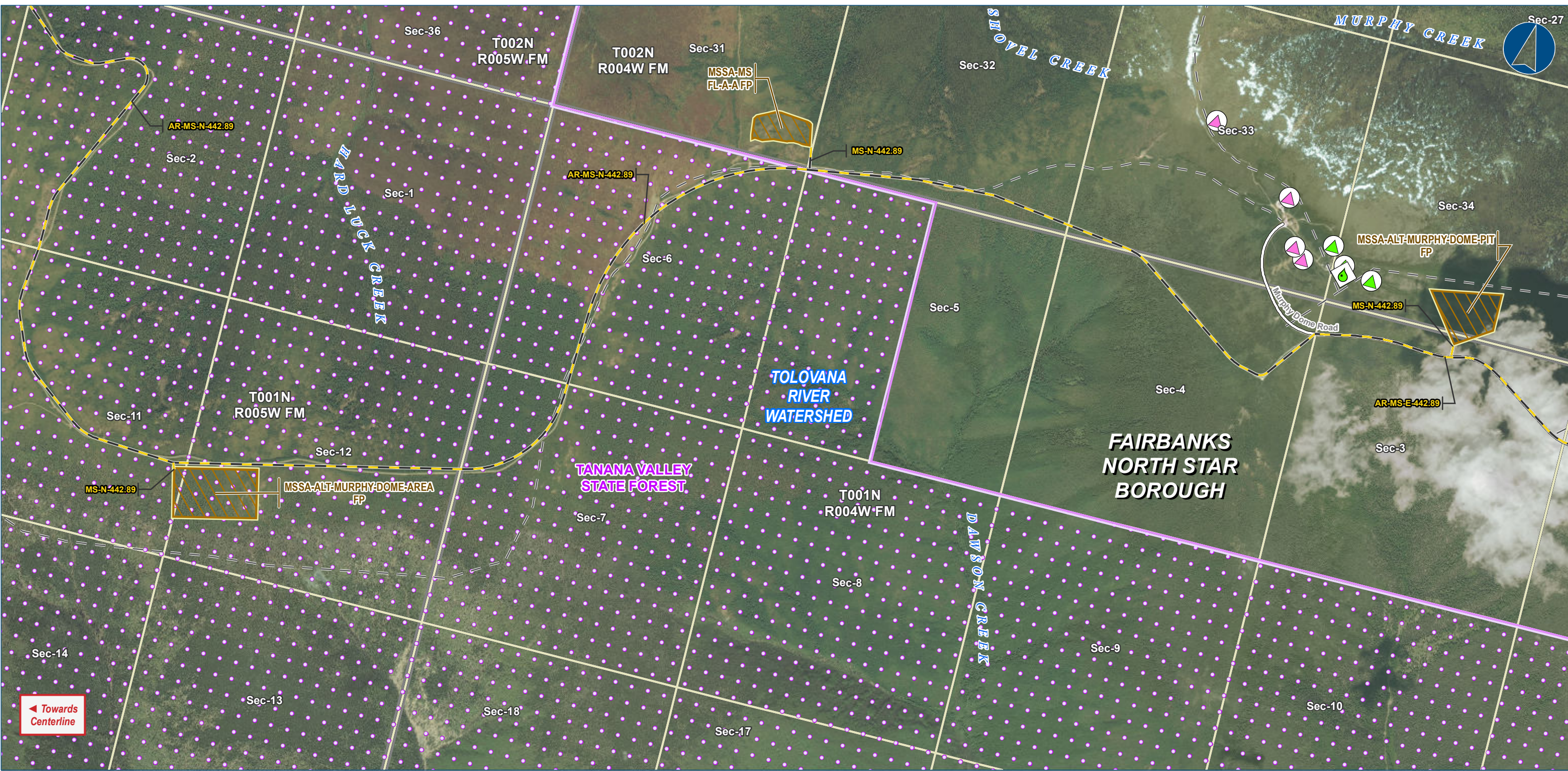
| ALASKA LNG PROJECT                |                      |                                       |
|-----------------------------------|----------------------|---------------------------------------|
| Contaminated Sites                |                      |                                       |
| Mainline Rev C2 Route             |                      |                                       |
| Off ROW Facilities & Access Roads |                      |                                       |
| BOROUGH:                          | FAIRBANKS NORTH STAR | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA               | CHECKED BY:                           |
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| DATE: 2017-03-23                  | PROJECTION:          | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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SHEET: 16



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)
- Existing Roads
- Off Road Trails
- Conservation Lands

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete

**ADEC Contaminated Sites**

- Cleanup Complete
- Open

**Section**

- Section

**Township**

- Township

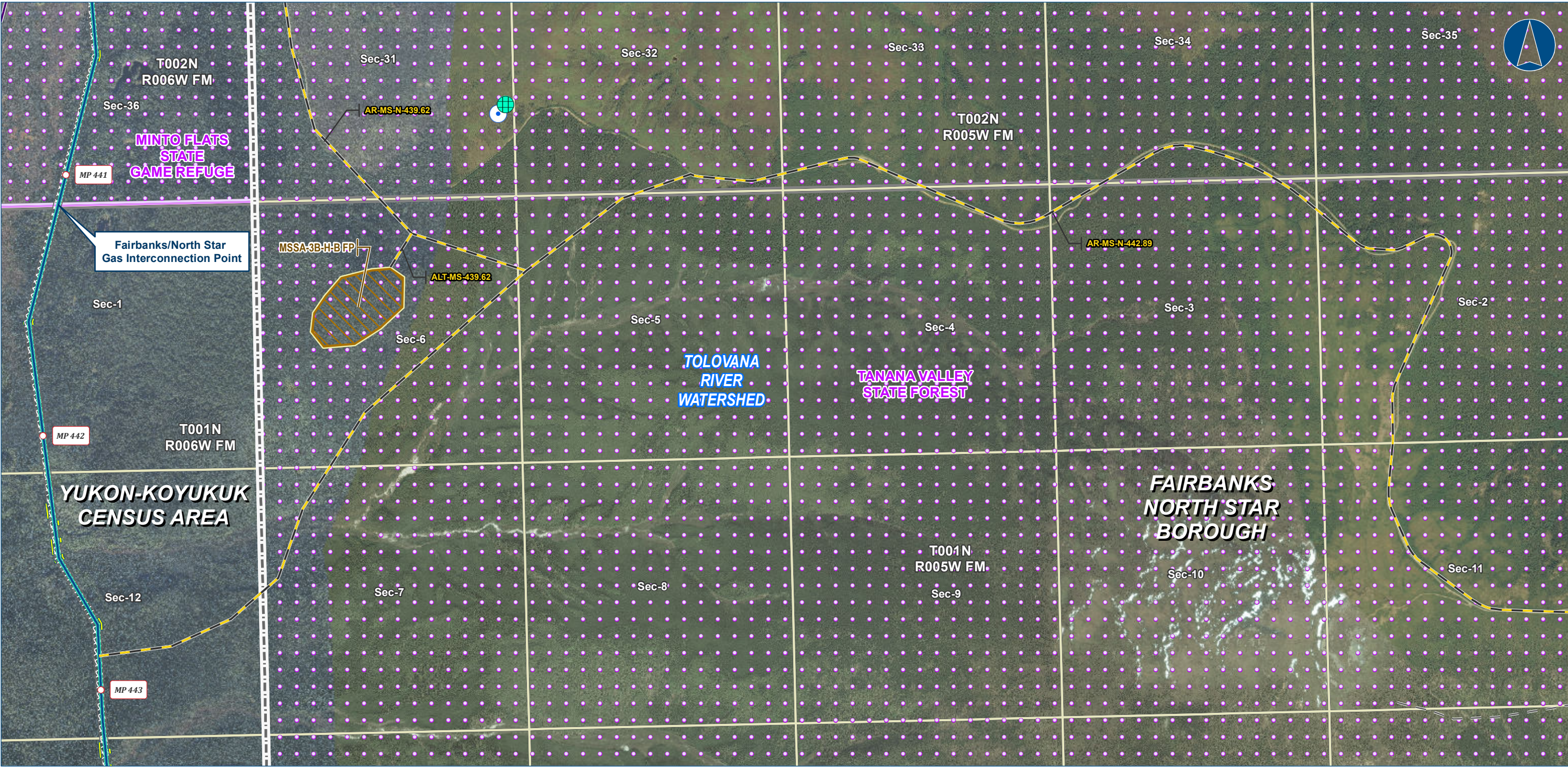
| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |                      |                                       |
|--|----------------------|---------------------------------------|
| BOROUGH:   | FAIRBANKS NORTH STAR | DRAWN BY: AGDC                        |
| STATE:   | ALASKA               | CHECKED BY:                           |
| REV. NO.:  | REVISION             | DATE                                  |
| A  | ISSUED FOR REVIEW    | 2017-03-23                            |
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| DATE: 2017-03-23   | PROJECTION:          | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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SHEET: 17



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Material Site Study Area (MSSA)
- Existing Roads
- Revised Statute 2477 Trail
- Off Road Trails
- Borough / Census Area
- Conservation Lands

**Section**

- Section

**Township**

- Township

**Water Well Location (WELTS)**

- Water Well Location (WELTS)
- Subsurface Water Rights

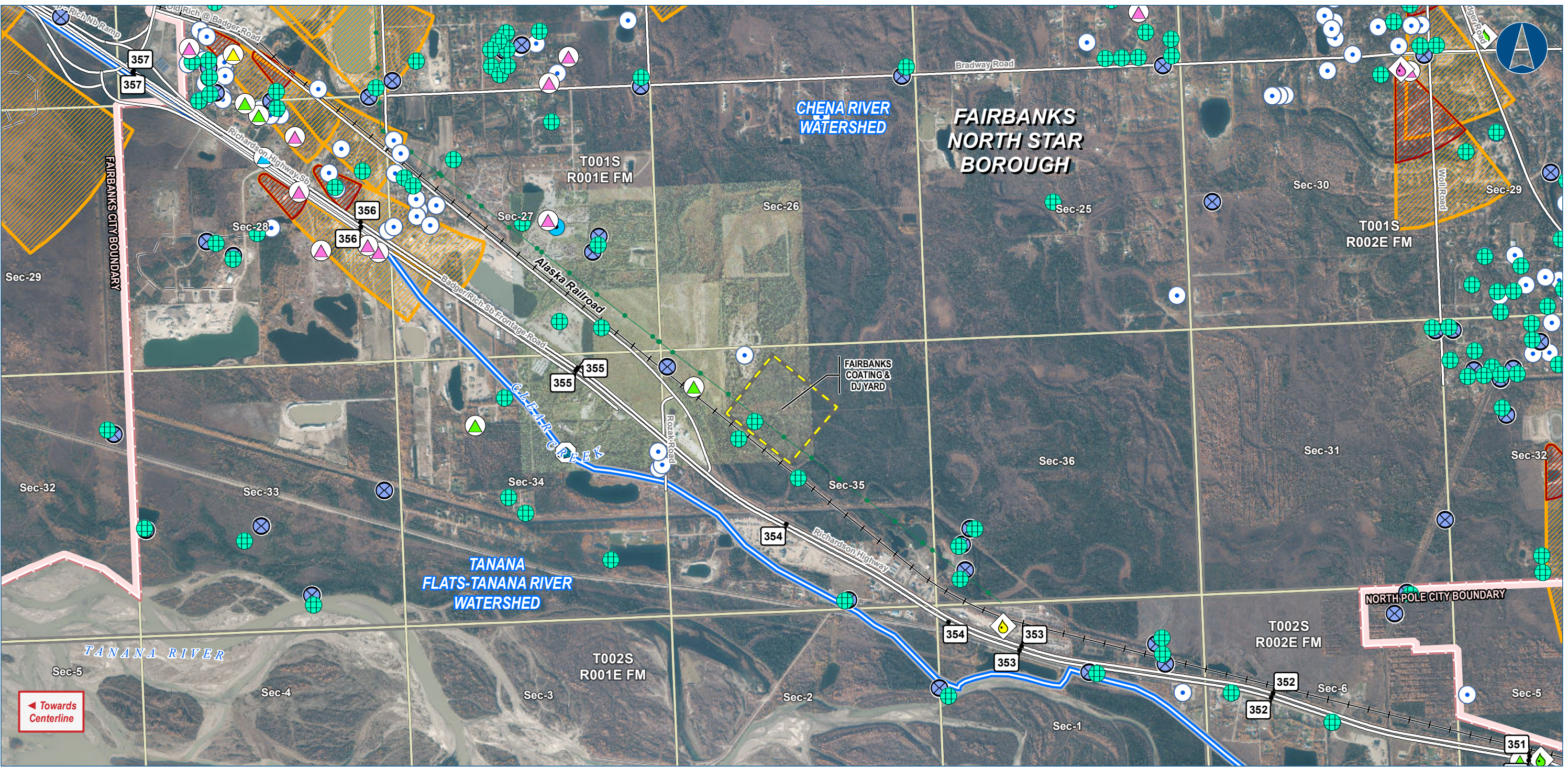
| ALASKA LNG PROJECT                |                      |                                       |
|-----------------------------------|----------------------|---------------------------------------|
| Contaminated Sites                |                      |                                       |
| Mainline Rev C2 Route             |                      |                                       |
| Off ROW Facilities & Access Roads |                      |                                       |
| BOROUGH:                          | FAIRBANKS NORTH STAR | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA               | CHECKED BY:                           |
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| A                                 | ISSUED FOR REVIEW    | 2017-03-23                            |
| PRELIMINARY                       |                      |                                       |
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| 0 1/4 1/2 Miles                   |                      |                                       |
| DATE: 2017-03-23                  | PROJECTION:          | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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SHEET: 18



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Off Road Trails
- Existing Pipeline
- Watershed Boundary
- Incorporated City Boundary

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open

**ADEC Contaminated Sites**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open
- Informational

**ADEC Solid Waste Sites**

- Never Built
- Water Well Location (WELTS)
- USGS Ground / Surface Water Location
- Surface Water Rights
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

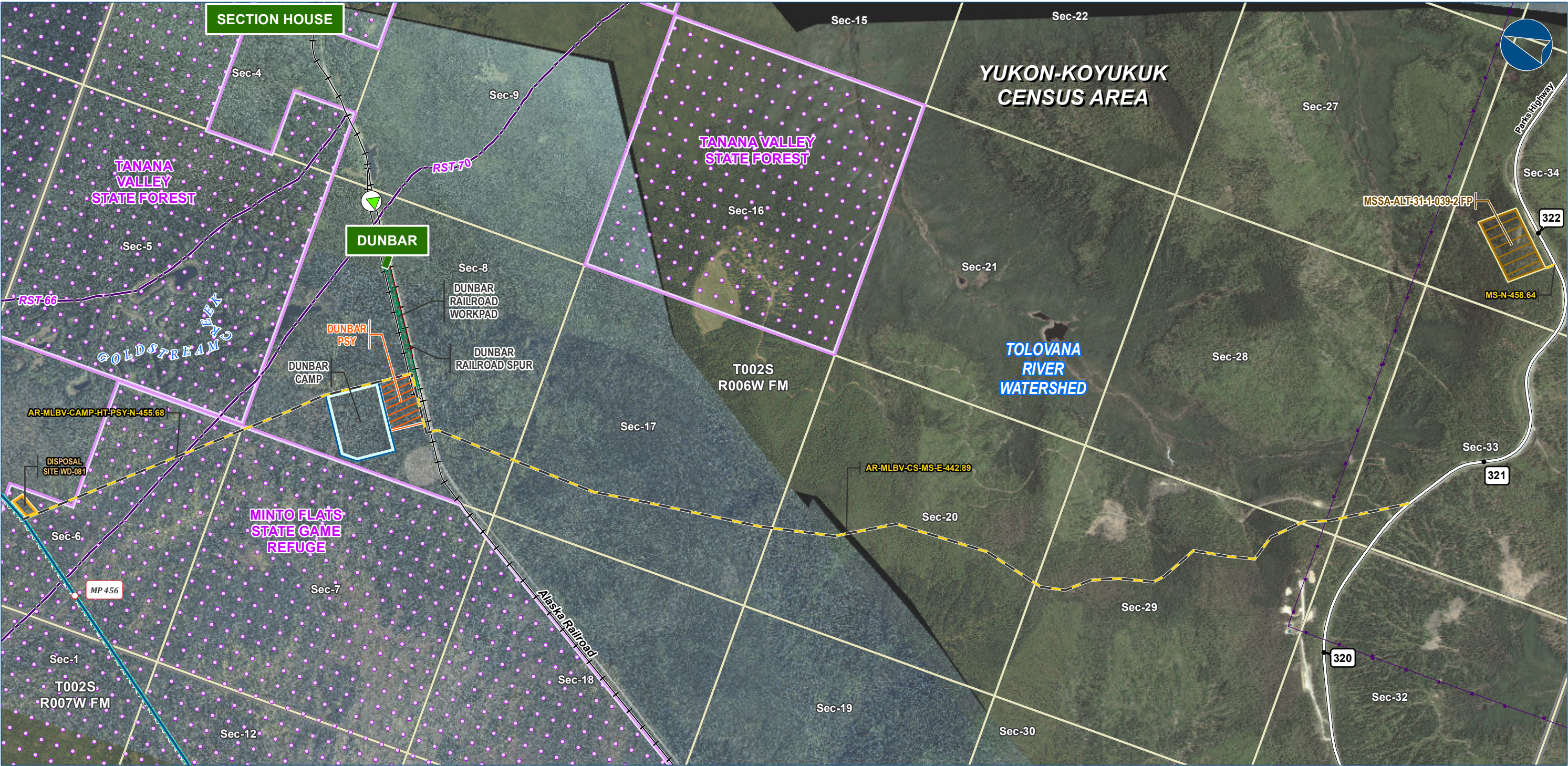
| ALASKA LNG PROJECT                |   |                |
|-----------------------------------|---|----------------|
| Contaminated Sites                |   |                |
| Mainline Rev C2 Route             |   |                |
| Off ROW Facilities & Access Roads |   |                |
| BOROUGH:                          | FAIRBANKS NORTH STAR                              | DRAWN BY: AGDC |
| STATE:                            | ALASKA  | CHECKED BY:    |
| REV. NO.:                         | REVISION  | DATE           |
| A                                 | ISSUED FOR REVIEW                                 | 2017-03-23     |
| PRELIMINARY                       |   |                |
| 1:24,000 0 1/4 1/2 Miles          |   |                |
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SHEET: 19

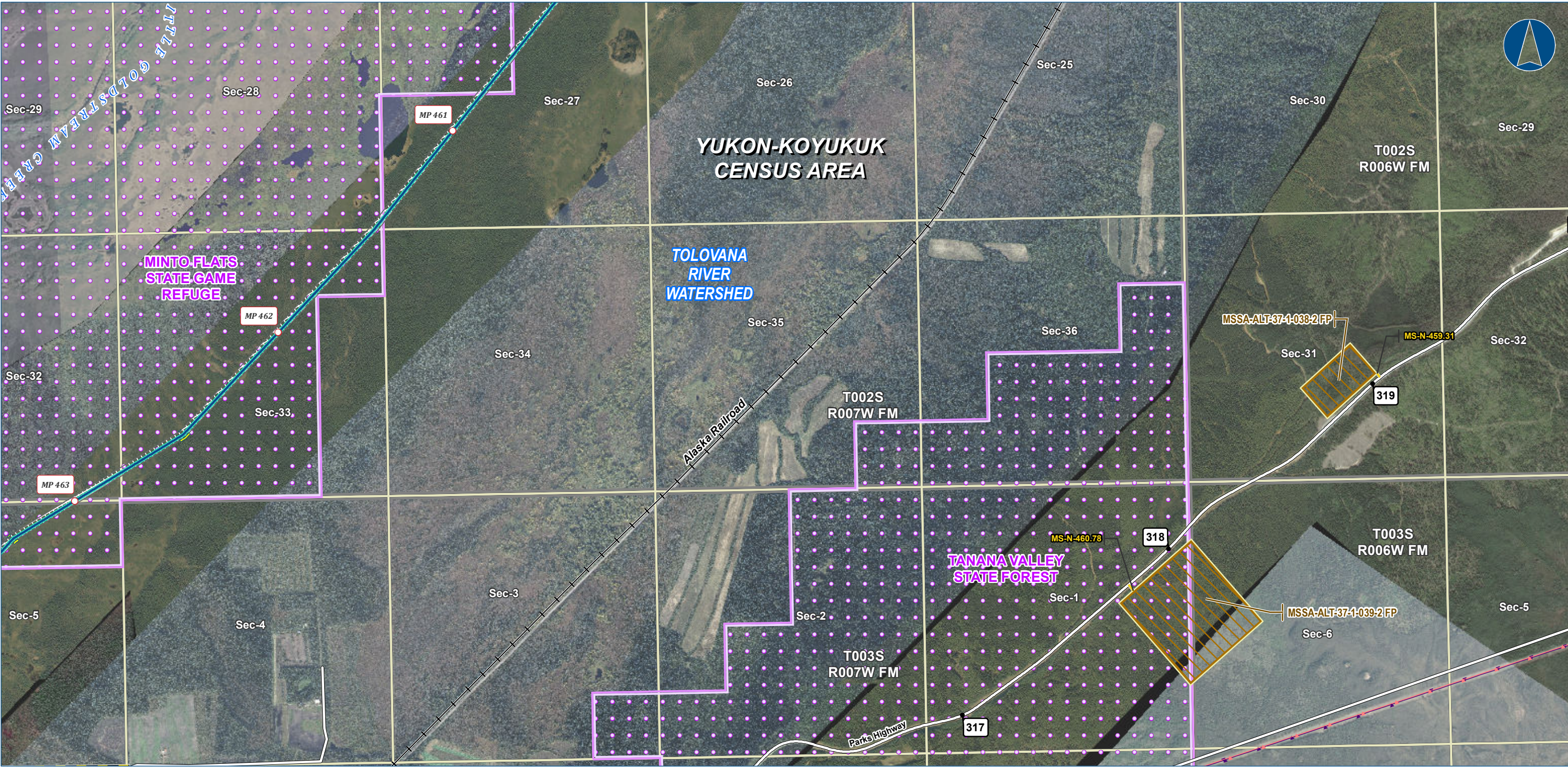


Alaska LNG Project

| Legend |                                 | EXISTING FEATURES |                            |
|--------|---------------------------------|-------------------|----------------------------|
|        | Alaska LNG Rev C2 Route         |                   | Existing Roads             |
|        | Access Road - Gravel            |                   | Railroad                   |
|        | Permanent ROW                   |                   | Revised Statute 2477 Trail |
|        | Construction ROW                |                   | Buried Cable               |
|        | Off ROW Camp                    |                   | Conservation Lands         |
|        | Pipe Storage Yard (PSY)         |                   | Alaska DOT Place Names     |
|        | Railroad Workpad                |                   |                            |
|        | Railroad Spur                   |                   |                            |
|        | Disposal Site                   |                   |                            |
|        | Material Site Study Area (MSSA) |                   |                            |

| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |   |            |
|--|---|------------|
| CENSUS AREA: YUKON-KOYUKUK   | DRAWN BY: AGDC                                    |            |
| STATE: ALASKA  | CHECKED BY:                                       |            |
| REV. NO.:  | REVISION  | DATE       |
| A  | ISSUED FOR REVIEW                                 | 2017-03-23 |
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| DATE: 2017-03-23   | PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |            |

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| DWG: RRB_APPENDIX_C4_ML_OFF_ROW_AERIAL_REV_C2_CL  | SHEET: 20 |



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Buried Cable
- Overhead Powerline
- Conservation Lands

**Section**

**Township**

**Material Site Study Area (MSSA)**

**Permanent ROW**

**Construction ROW**

**ATWS**

| ALASKA LNG PROJECT                |                   |   |
|-----------------------------------|-------------------|---|
| Contaminated Sites                |                   |   |
| Mainline Rev C2 Route             |                   |   |
| Off ROW Facilities & Access Roads |                   |   |
| CENSUS AREA:                      | YUKON-KOYUKUK     | DRAWN BY: AGDC                                    |
| STATE:                            | ALASKA            | CHECKED BY:                                       |
| REV. NO.:                         | REVISION          | DATE  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23  |
| PRELIMINARY                       |                   |   |
| 1:24,000                          |                   |   |
| DATE:                             | 2017-03-23        | PROJECTION: NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 21



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Buried Cable
- Overhead Powerline
- Incorporated City Boundary
- Alaska DOT Place Names

**Section**

- ADEC Leaking UG Storage Tanks
  - Cleanup Complete
- ADEC Contaminated Sites
  - Cleanup Complete
  - Open

**Township**

- ADEC Solid Waste Sites
  - Active
- Water Well Location (WELTS)
- USGS Ground / Surface Water Location
- Drinking Water - Zone A
- Drinking Water - Zone B

**Permanent ROW**

- Construction ROW
- ATWS
- Material Site Study Area (MSSA)

| ALASKA LNG PROJECT                    |                   |             |
|---------------------------------------|-------------------|-------------|
| Contaminated Sites                    |                   |             |
| Mainline Rev C2 Route                 |                   |             |
| Off ROW Facilities & Access Roads     |                   |             |
| BOROUGH:                              | DENALI            | DRAWN BY:   |
| STATE:                                | ALASKA            | CHECKED BY: |
| REV. NO.:                             | REVISION          | DATE        |
| A                                     | ISSUED FOR REVIEW | 2017-03-23  |
| PRELIMINARY                           |                   |             |
| 1:24,000                              |                   |             |
| DATE:                                 | 2017-03-23        | PROJECTION: |
| NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |                   |             |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 22



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Revised Statute 2477 Trail
- Off Road Trails
- Buried Cable
- Overhead Powerline
- Incorporated City Boundary
- Alaska DOT Place Names

**Section**

- ADEC Leaking UG Storage Tanks
- Cleanup Complete

**Township**

- Water Well Location (WELTS)
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

**Other Symbols**

- Permanent ROW
- Construction ROW
- ATWS
- Railroad Workpad
- Railroad Spur
- Material Site Study Area (MSSA)

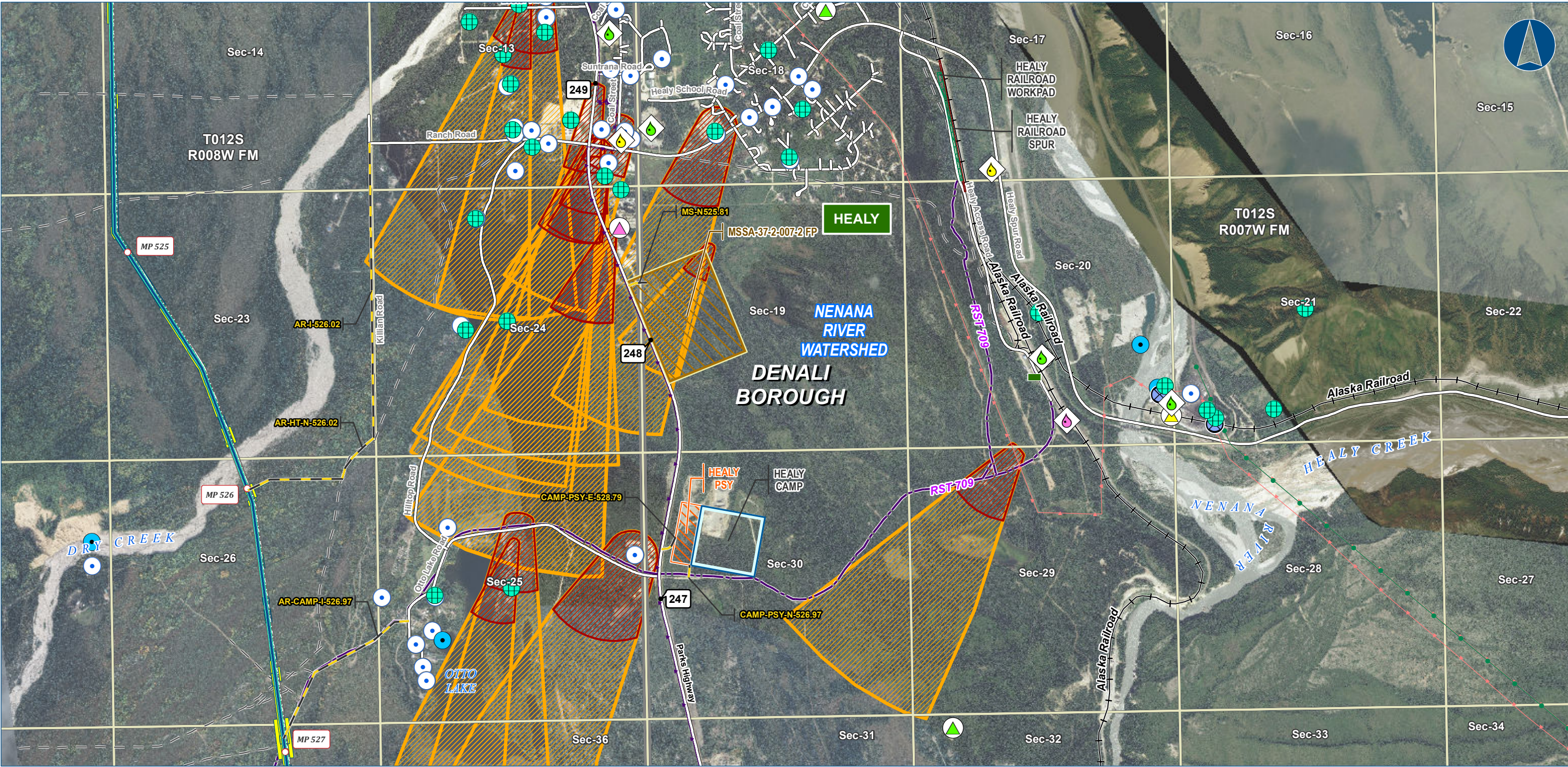
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | DENALI            | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000                          |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 23



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Pipe Storage Yard (PSY)
- Railroad Workpad
- Railroad Spur
- Material Site Study Area (MSSA)
- Existing Roads
- Railroad
- Revised Statute 2477 Trail
- Off Road Trails
- Existing Pipeline
- Buried Cable
- Overhead Powerline
- Alaska DOT Place Names

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open

**ADEC Contaminated Sites**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open

**Section**

- Section

**Township**

- Township

**Water Well Location (WELTS)**

- USGS Ground / Surface Water Location
- Surface Water Rights
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

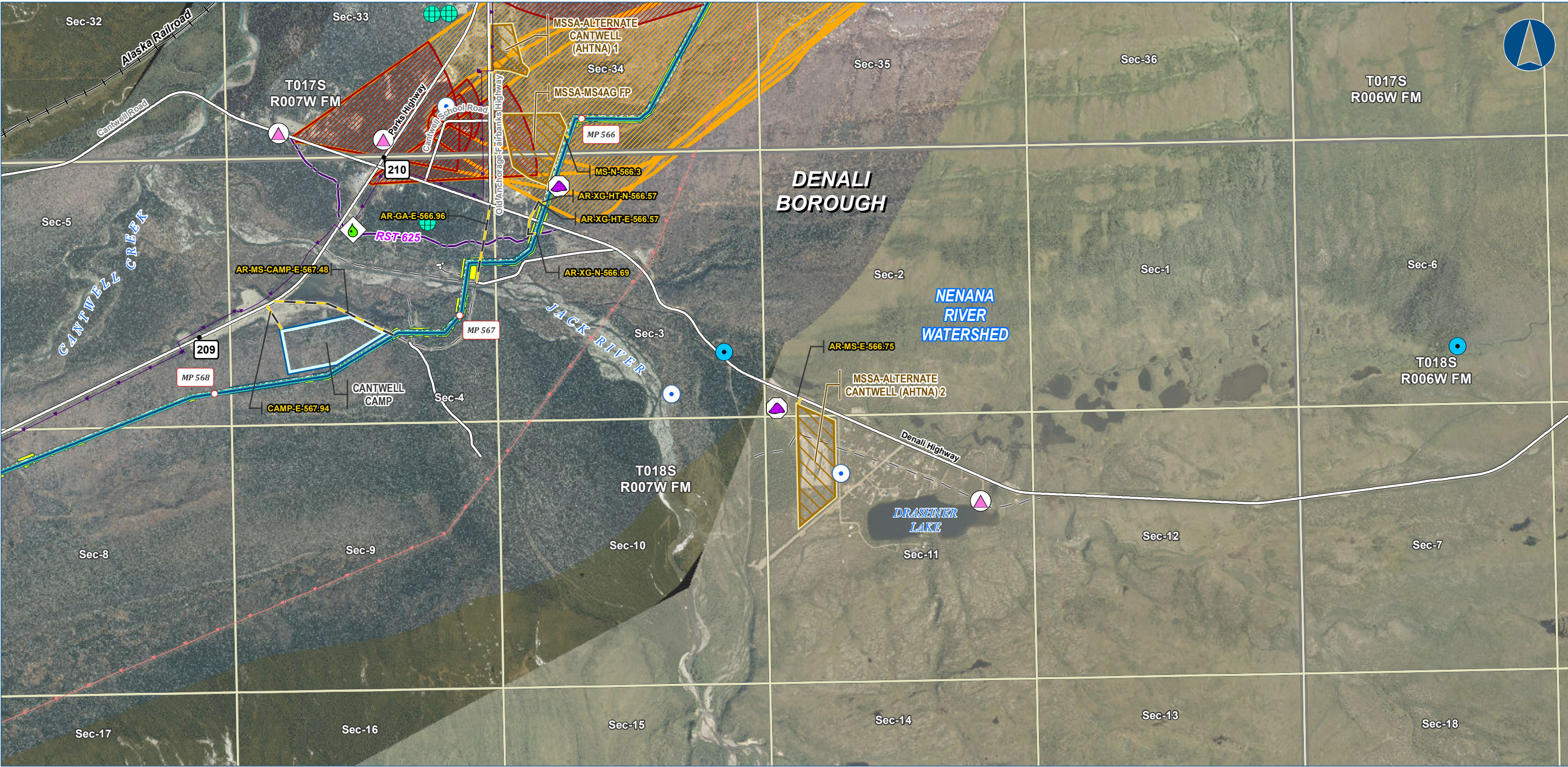
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | DENALI            | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000 0 1/4 1/2 Miles          |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 24



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Revised Statute 2477 Trail
- Off Road Trails
- Buried Cable
- Overhead Powerline

**Section**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Material Site Study Area (MSSA)

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete
- Open

**ADEC Solid Waste Sites**

- Retired
- Water Well Location (WELTS)
- Surface Water Rights
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

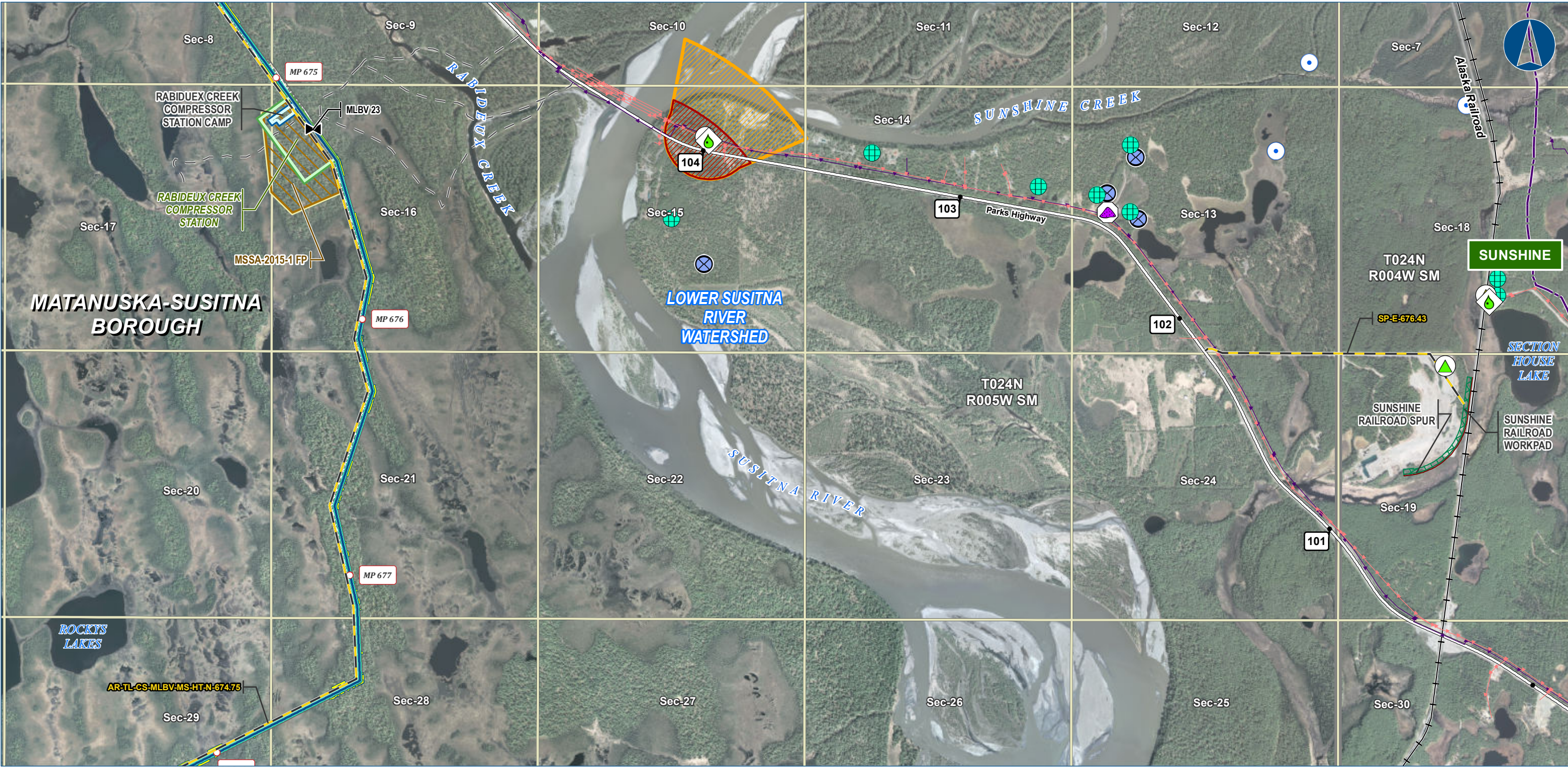
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | DENALI            | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000 0 1/4 1/2 Miles          |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 25



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve

**EXISTING FEATURES**

- Existing Roads
- Railroad
- Revised Statute 2477 Trail
- Off Road Trails
- Buried Cable
- Overhead Powerline
- Alaska DOT Place Names

**Section**

- ADEC Leaking UG Storage Tanks
  - Cleanup Complete
- ADEC Contaminated Sites
  - Cleanup Complete
  - Cleanup Complete - Institutional Controls
  - Open

**Township**

- ADEC Solid Waste Sites
  - Retired
- Water Well Location (WELTS)
- USGS Ground / Surface Water Location
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

**Other Symbols**

- Permanent ROW
- Construction ROW
- ATWS
- Compressor Station
- Camp
- Railroad Workpad
- Railroad Spur
- Material Site Study Area (MSSA)

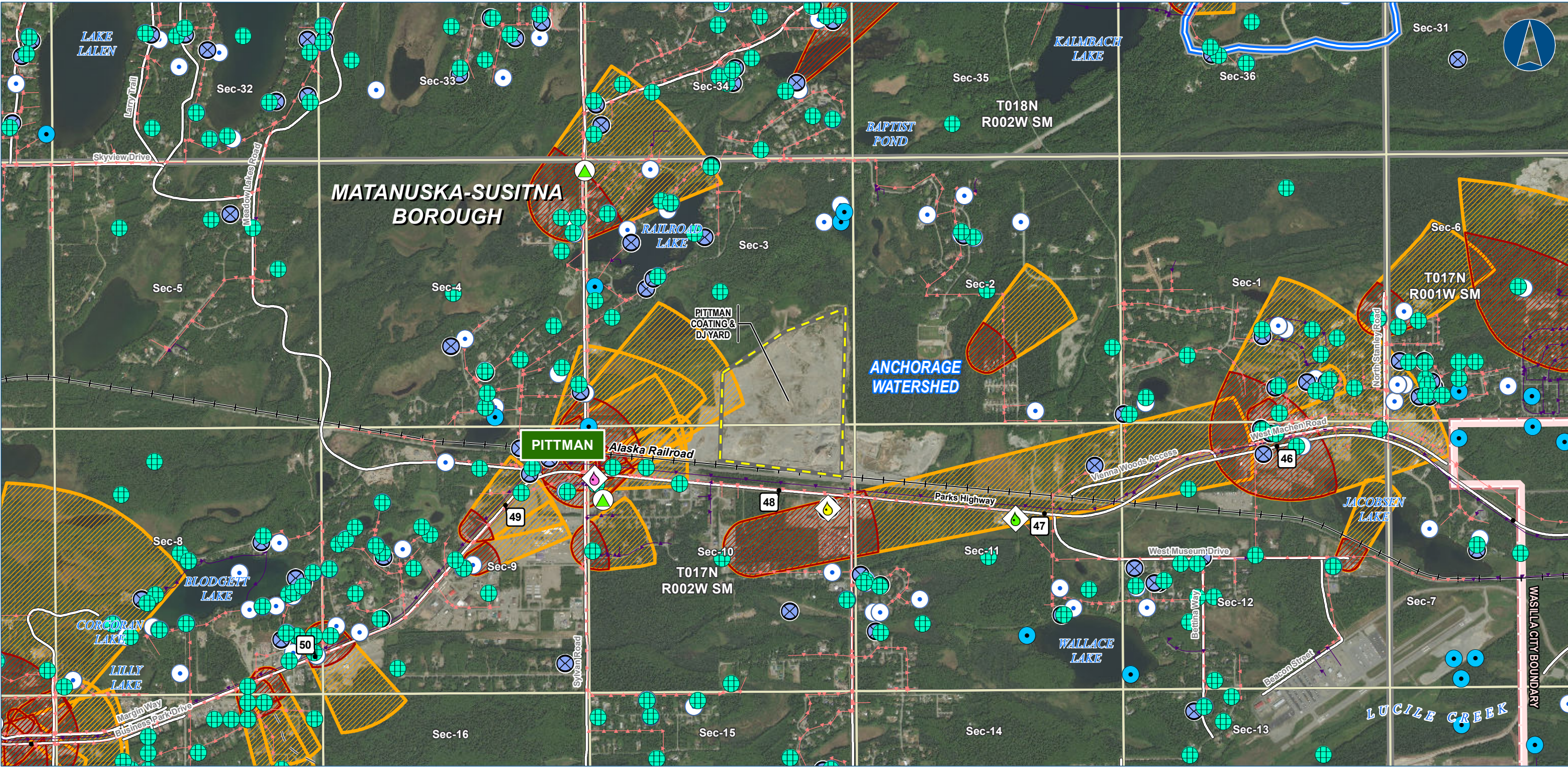
| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | MATANUSKA-SUSITNA | DRAWN BY: AGDC                        |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000                          |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 26



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Double Joint Coating Yard
- Existing Roads
- Railroad
- Off Road Trails
- Buried Cable
- Overhead Powerline
- Watershed Boundary
- Incorporated City Boundary
- Alaska DOT Place Names

**ADEC Leaking UG Storage Tanks**

- Cleanup Complete
- Cleanup Complete - Institutional Controls
- Open

**ADEC Contaminated Sites**

- Cleanup Complete

**Township**

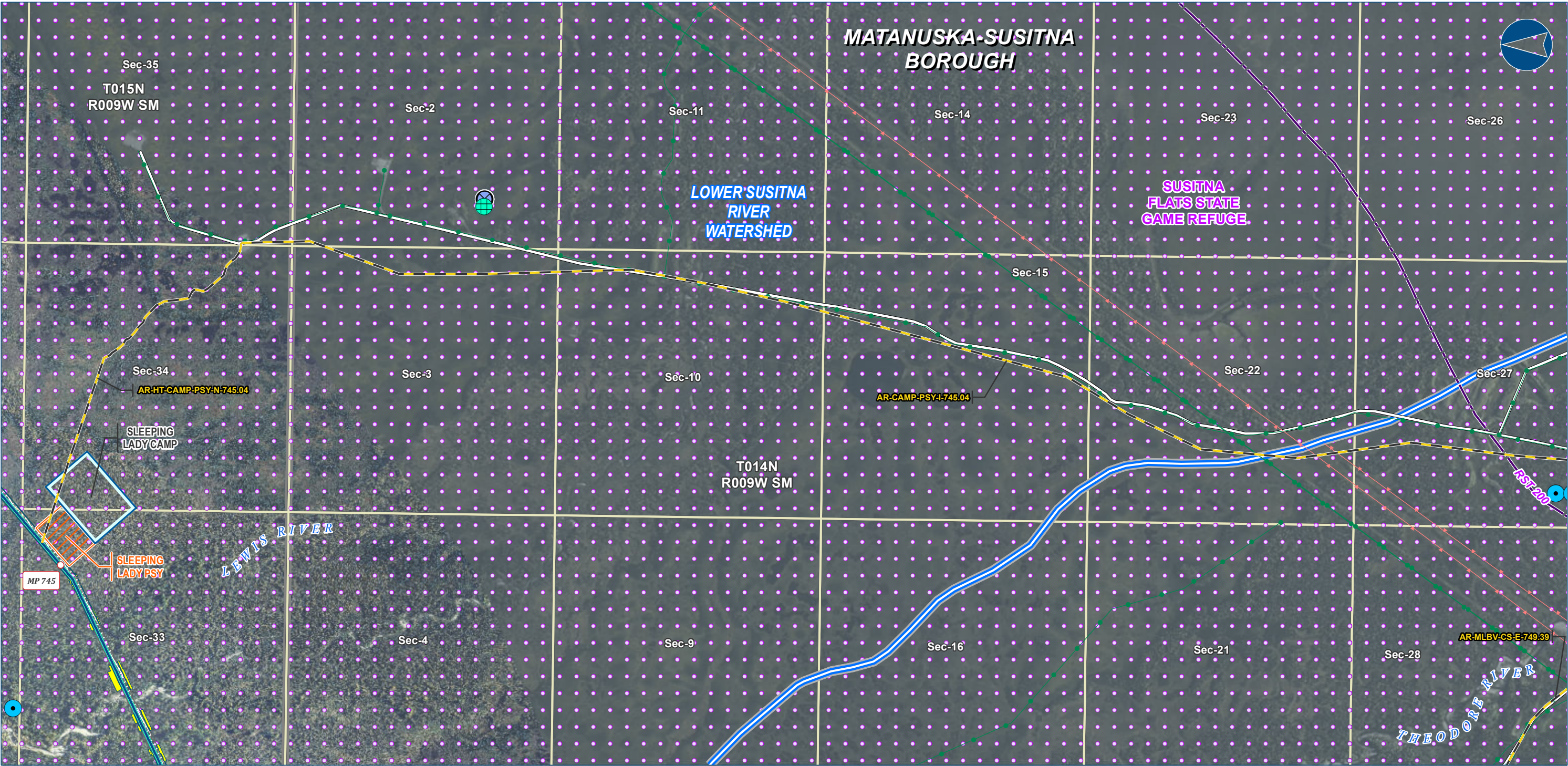
- Water Well Location (WELTS)
- USGS Ground / Surface Water Location
- Surface Water Rights
- Subsurface Water Rights
- Drinking Water - Zone A
- Drinking Water - Zone B

| ALASKA LNG PROJECT                |                   |                                       |
|-----------------------------------|-------------------|---------------------------------------|
| Contaminated Sites                |                   |                                       |
| Mainline Rev C2 Route             |                   |                                       |
| Off ROW Facilities & Access Roads |                   |                                       |
| BOROUGH:                          | MATANUSKA-SUSITNA | DRAWN BY:                             |
| STATE:                            | ALASKA            | CHECKED BY:                           |
| REV. NO.:                         | REVISION          | DATE                                  |
| A                                 | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY                       |                   |                                       |
| 1:24,000                          |                   |                                       |
| 0 1/4 1/2 Miles                   |                   |                                       |
| DATE: 2017-03-23                  | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL SHEET: 27



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Off ROW Camp
- Pipe Storage Yard (PSY)
- Existing Roads
- Revised Statute 2477 Trail
- Existing Pipeline
- Overhead Powerline
- Watershed Boundary
- Conservation Lands

**Section**

- Township
- Water Well Location (WELTS)
- USGS Ground / Surface Water Location
- Surface Water Rights

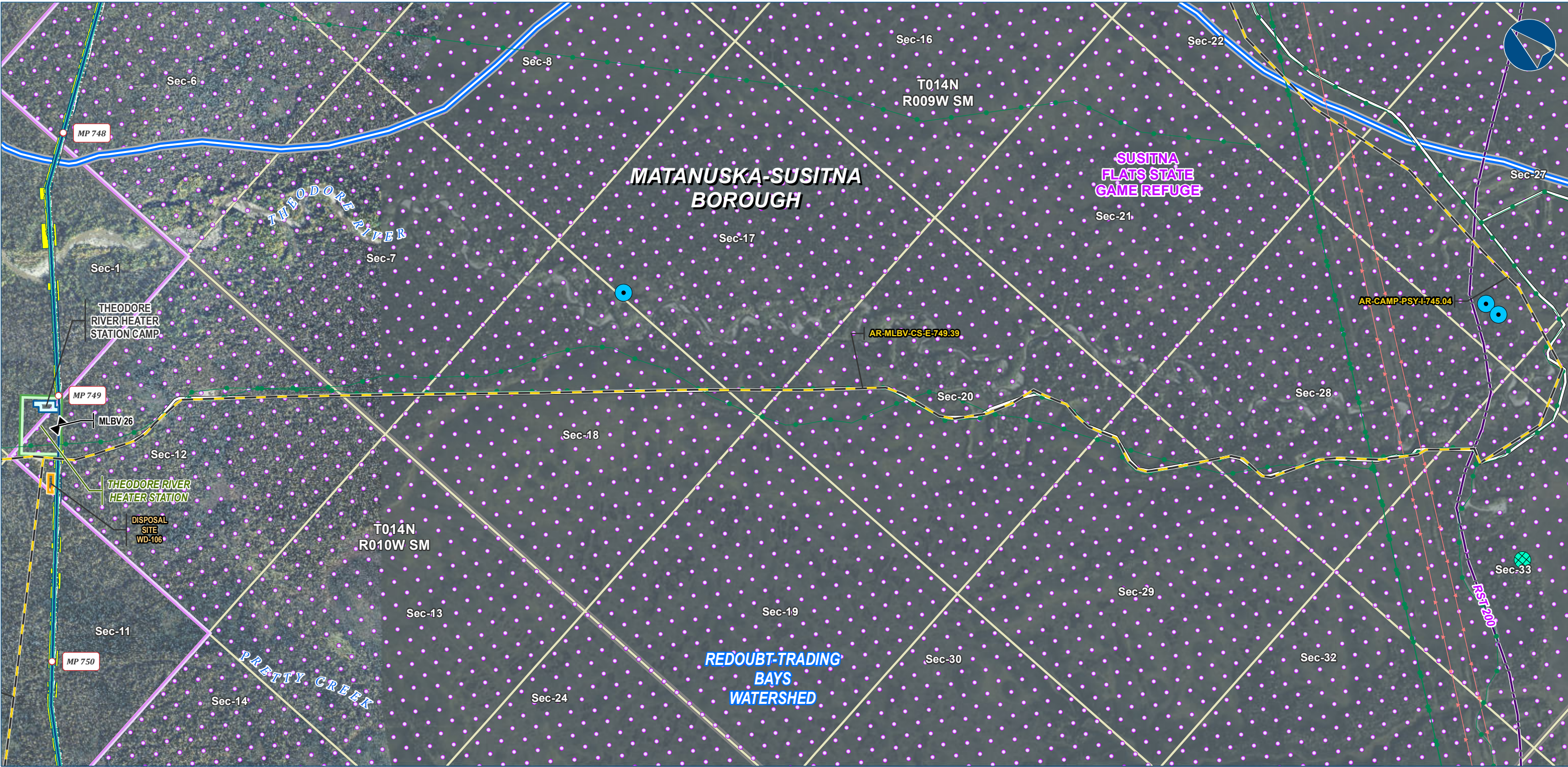
| ALASKA LNG PROJECT<br>Contaminated Sites<br>Mainline Rev C2 Route<br>Off ROW Facilities & Access Roads |                   |                                       |
|--|-------------------|---------------------------------------|
| BOROUGH:   | MATANUSKA-SUSITNA | DRAWN BY: AGDC                        |
| STATE:   | ALASKA            | CHECKED BY:                           |
| REV. NO.:  | REVISION          | DATE                                  |
| A  | ISSUED FOR REVIEW | 2017-03-23                            |
| PRELIMINARY  |                   |                                       |
| 1:24,000 0 1/4 1/2 Miles   |                   |                                       |
| DATE: 2017-03-23   | PROJECTION:       | NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |

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DWG: RRB\_APPENDIX\_C4\_ML\_OFF\_ROW\_AERIAL\_REV\_C2\_CL

SHEET: 28



Alaska LNG Project

**Legend**

**PIPELINE**

- Alaska LNG Rev C2 Route
- Access Road - Gravel
- Mainline Blockvalve

**EXISTING FEATURES**

- Permanent ROW
- Construction ROW
- ATWS
- Compressor Station
- Camp
- Disposal Site
- Revised Statute 2477 Trail
- Existing Pipeline
- Overhead Powerline
- Watershed Boundary
- Conservation Lands

**Section**

**Township**

- Water Well Location (WELTS)
- Surface Water Rights

**ALASKA LNG PROJECT**  
Contaminated Sites  
Mainline Rev C2 Route  
Off ROW Facilities & Access Roads

|                                   |  |             |
|-----------------------------------|--|-------------|
| <b>BOROUGH:</b> MATANUSKA-SUSITNA | <b>DRAWN BY:</b> AGDC                                    |             |
| <b>STATE:</b> ALASKA              | <b>CHECKED BY:</b>                                       |             |
| <b>REV. NO.:</b>                  | <b>REVISION</b>  | <b>DATE</b> |
| A                                 | ISSUED FOR REVIEW  | 2017-03-23  |
| <b>PRELIMINARY</b>                |  |             |
| 1:24,000 0 1/4 1/2 Miles          |  |             |
| <b>DATE:</b> 2017-03-23           | <b>PROJECTION:</b> NAD83 NSRS2007 ALASKAZONE4 FTUS 54392 |             |

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|   |                  |
|---|------------------|
| <b>DWG:</b> RRB_APPENDIX_C4_ML_OFF_ROW_AERIAL_REV_C2_CL | <b>SHEET:</b> 29 |
|---|------------------|

# Alaska LNG Project

*Contaminated Sites  
Point Thomson Rev C Route  
Off ROW Facilities &  
Access Roads*

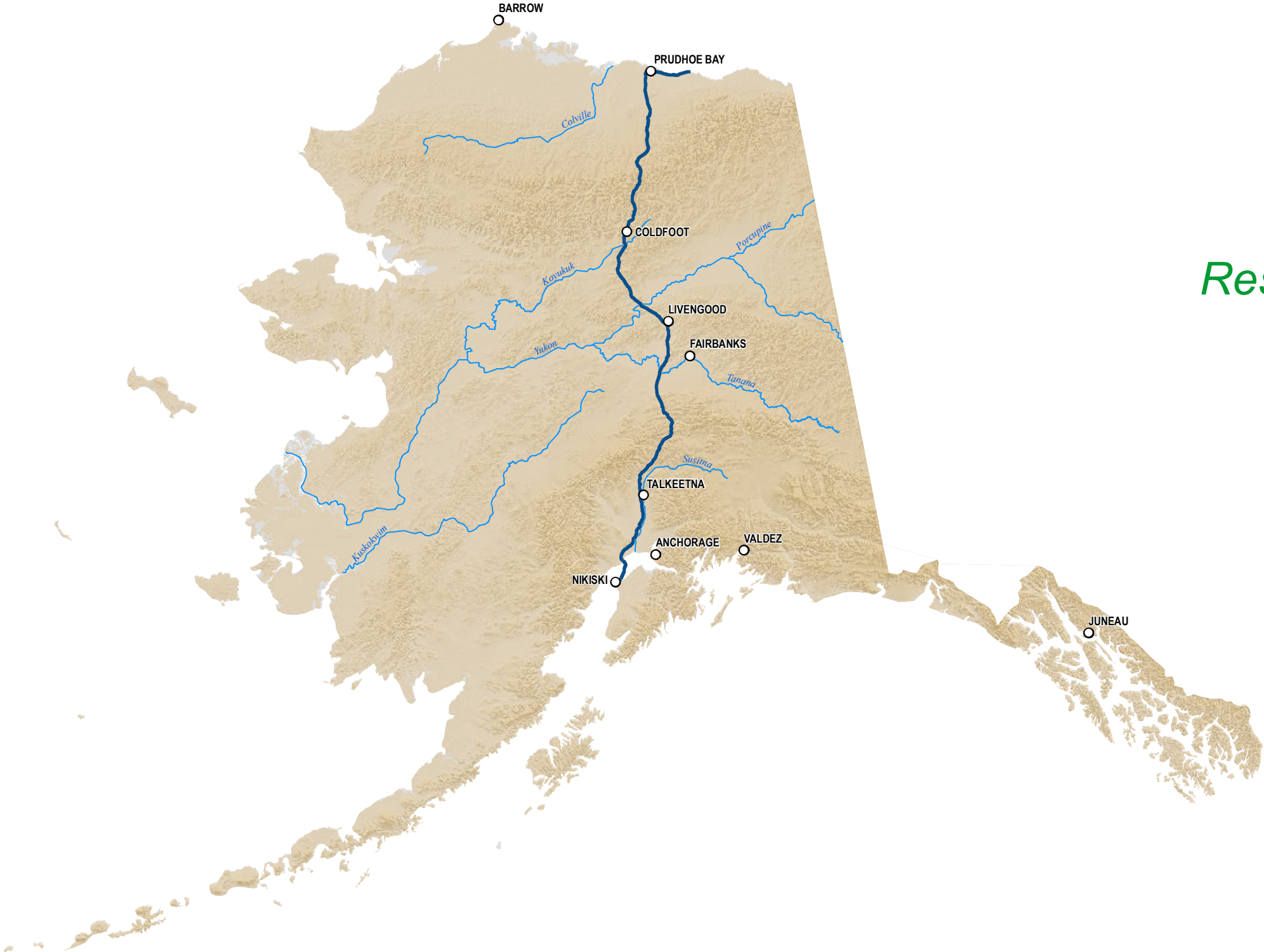
## Resource Report 8, Appendix C4 Aerial Mapping

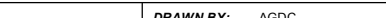
Note:

ADEC Division of Environmental Health performs source water assessments funded by the Environmental Protection Agency (EPA) under the Source Water Assessment and Protection (SWAP) program (ADEC, 2015a). Source water assessments determine the susceptibility of a drinking water system, including groundwater wells, to contamination (Miller, 2009). Source water assessments also determine where drinking water originates. To determine the origination area, groundwater movement within two timeframes is evaluated (although additional timeframes are possible). The first timeframe is several months, “Zone A.” The second timeframe is two years, “Zone B.” For groundwater, this creates two areas around a wellhead showing the distance groundwater can move within the timeframe. These areas are usually generalized as a representative polygon.

ADEC. 2015a. Overview of Drinking Water Protection in Alaska. Available online at: [http://dec.alaska.gov/eh/dw/DWP/DWP\\_Overview.html](http://dec.alaska.gov/eh/dw/DWP/DWP_Overview.html). Accessed August 2015.

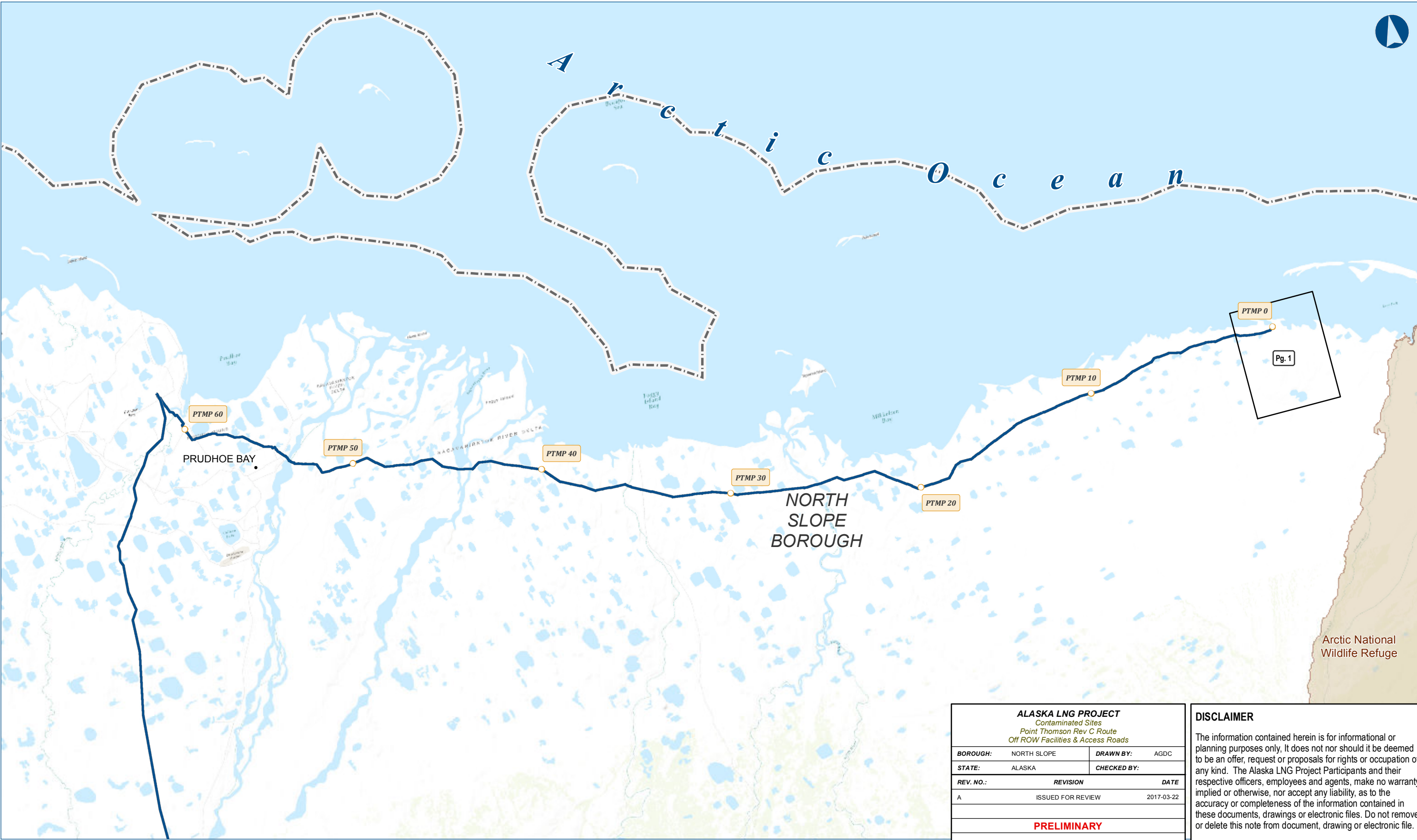
Miller, Chris. 2009. September 22-23. Ground Water Rule Assessment Source Monitoring. Ground Water Rule Workshop.



|  |                       |             |
|--|-----------------------|-------------|
| <b>ALASKA LNG PROJECT</b><br><i>Contaminated Sites</i><br><i>Point Thomson Rev C Route</i><br><i>Off ROW Facilities &amp; Access Roads</i> |                       |             |
| <b>BOROUGH:</b> -  | <b>DRAWN BY:</b> AGDC |             |
| <b>STATE:</b> ALASKA   | <b>CHECKED BY:</b>    |             |
| <b>REV. NO.:</b>   | <b>REVISION</b>       | <b>DATE</b> |
| A  | ISSUED FOR REVIEW     | 2017-03-22  |
| <b>PRELIMINARY</b>   |                       |             |
|   |                       |             |
| <b>DATE:</b> 2017-03-22 <b>PROJECTION:</b> NAD 1983 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004   |                       |             |

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| ALASKA LNG PROJECT                |  |   |
|-----------------------------------|--|---|
| Contaminated Sites                |  |   |
| Point Thomson Rev C Route         |  |   |
| Off ROW Facilities & Access Roads |  |   |
| BOROUGH:                          | NORTH SLOPE  | DRAWN BY: AGDC  |
| STATE:                            | ALASKA   | CHECKED BY:   |
| REV. NO.:                         | REVISION   | DATE  |
| A                                 | ISSUED FOR REVIEW  | 2017-03-22  |
| PRELIMINARY                       |  |   |
| 1:281,485                         | 0 3 6 Miles  |   |
| DATE: 2017-03-22                  | PROJECTION: NAD83 NSRS2007 STATEPLANE ALASKA 4 FIPS 5004 | DWG: RRB_APPENDIX_C_3_4_PTTL_OFF_ROW_INDEX_REV_C_CL SHEET: PT-OFF-INDEX |

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|  |                    |                                       |
|--|--------------------|---------------------------------------|
| <p align="center"><b>ALASKA LNG PROJECT</b><br/> <i>Contaminated Sites</i><br/> <i>Point Thomson Rev C Route</i><br/> <i>Off ROW Facilities &amp; Access Roads</i></p> |                    |                                       |
| <b>BOROUGH:</b>  | NORTH SLOPE        | <b>DRAWN BY:</b> AGDC                 |
| <b>STATE:</b>  | ALASKA             | <b>CHECKED BY:</b>                    |
| <b>REV. NO.:</b>   | <b>REVISION</b>    | <b>DATE</b>                           |
| A  | ISSUED FOR REVIEW  | 2017-03-29                            |
| <p align="center"><b>PRELIMINARY</b></p>   |                    |                                       |
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| <b>DATE:</b> 2017-03-29  | <b>PROJECTION:</b> | NAD83 NRSR2007 ALASKAZONE4 FTUS 54392 |

X:\AKLNG\Resource Reports\RR08\Appendix C\OFF ROW\RR8 APPENDIX C4 PTTL OFF ROW AERIAL REV C CL.mxd