

# STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF SUPPORT SERVICES



## INVITATION TO BID (ITB) 10-025-22

### Tip Levarg Road Construction

### Addendum Two

**Date of Issue: February 28, 2022**

Addendum Two serves to answers questions from vendors and update language on the Invitation for Bids Form and Bid Form.

**Important Note to Offerors:** You must sign and return this page of the addendum document with your bid. Failure to do so will result in the rejection of your bid. Only the ITB terms and conditions referenced in this addendum are being changed. All other terms and conditions of the ITB remain the same. This Addendum Two is hereby made part of the ITB and is a total of three pages and Attachments 1 and 2.

Chris Brooks

Procurement Specialist

Phone: (907) 269-8666

Email: christopher.brooks@alaska.gov

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COMPANY SUBMITTING BID

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AUTHORIZED SIGNATURE

---

DATE

## Questions from Vendors

**Question 1:** Are the lengths of the roads shown on the Plan of Survey sheet to the center of the turnarounds?

**Answer:** Yes.

**Question 2:** Does the 386 +/- figure shown on the Plan of Survey include the 40 foot length of Tehama Avenue east?

**Answer:** Yes, the 386' number is from the CL of Cohoe Loop Road to the CL of intersection with Roe Circle and Alevin Circle (see PDF page 18 of ITB).

**Question 3:** A 24" x 42' CMP is shown at Tehama Avenue east (proposed) on the ASLS No. 21-025 sheet. These pipes typically come in 20' lengths. Can we install a 40' pipe? And is this the only pipe?

**Answer:** Yes, a 40' pipe can be installed. 18" culverts must be installed at each intersection. That would be 3 culverts in the Basic Bid and 1 in Additive Alternate #1 (see below):

### Basic Bid

Three 18" cross culverts shall be installed in accordance with KPB Chapter 14.06 Road Standards at the following locations:

1. Potbelly Stove Road, north side of Tehama Avenue
2. Potbelly Stove Road, south side of Tehama Avenue
3. Quintin Circle, at intersection with Potbelly Stove Road

### Additive Alternate #1

One 18" cross culvert shall be installed in accordance with KPB Chapter 14.06 Road Standards at the following location:

1. Tehama Avenue, at intersection with Roe Circle/Alevin Circle.

**Question 4:** Do you have any quality tests on the gravel material from the State owned gravel pit adjacent to this subdivision? If not, can we enter the site and dig some test holes?

**Answer:** DNR does not guarantee the quality or quantity of material in the sites, as such DNR does not have any produced data on the quality of the material.

If you need to dig some test holes, a permit may be needed but it entirely depends on what kind of equipment you're using. If the equipment used does not exceed 1,500lbs, that would be considered generally allowed and would not necessitate an authorization. If the equipment does exceed that amount, you would need a permit. Bidders should coordinate with the DNR Material Sales unit point of contact below for permits and access:

Amber-Lynn Taber, Natural Resource Specialist 1  
Department of Natural Resources  
Division of Mining, Land, and Water  
Phone: 907-269-8560  
Email: [amber.taber@alaska.gov](mailto:amber.taber@alaska.gov)

Attachment 1 – Cost per cubic yard of sand, gravel, and rock information sheet – 2022  
Southcentral Region – DNR – MLW – 11 AAC 71.090.

Attachment 2 – Statewide Material Site Inventory, Material Site Inspection Report.

## **Changes to the ITB**

### **Change 1:**

The following language in the Invitation for Bids Form (Form 25D-7DNR) has been changed as follows (see PDF page 3 of ITB):

Fax # (907) 269-8909 has been removed. Bidders can submit their bids to [christopher.brooks@alaska.gov](mailto:christopher.brooks@alaska.gov) or the mailing address below:

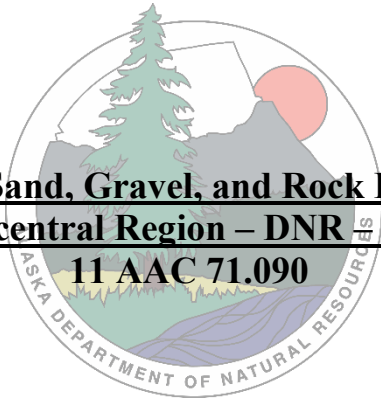
State of Alaska  
Department of Natural Resources  
Division of Support Services  
Attn: Chris Brooks  
550 W 7<sup>th</sup> Ave., Suite 1330  
Anchorage, Alaska 99501

### **Change 2:**

The following language in the Bid Form (Form 25D-9DNR) has been changed as follows (see PDF page 10 of ITB):

1<sup>st</sup> paragraph: “Gravina Island near Ketchikan, Alaska” has been deleted and updated with “Kasilof, Alaska.”

## **End of Addendum Two**



**Cost per Cubic Yard of Sand, Gravel, and Rock Information Sheet – 2022**  
**Southcentral Region – DNR MLW**

**11 AAC 71.090**

|   |                |
|---|----------------|
| <b>Parks Highway</b>  | <b>\$3.00</b>  |
| <b>Glenn Highway</b>  | <b>\$3.00</b>  |
| <b>Mat-Su Borough</b>   | <b>\$3.00</b>  |
| <b>Kenai Peninsula – South of Portage Creek<br/>(Except those listed below)</b> | <b>\$3.25</b>  |
| <b>Seldovia &amp; English Bay</b>   | <b>\$2.50</b>  |
| <b>Valdez</b>   | <b>\$1.50</b>  |
| <b>Richardson Highway</b>   | <b>\$1.50</b>  |
| <b>Kodiak</b>   | <b>\$3.00</b>  |
| <b>Lake Clark Shorelands<br/>(Port Alsworth)</b>                                | <b>\$1.50</b>  |
| <b>Bristol Bay Area</b>   | <b>\$1.50</b>  |
| <b>Aleutians</b>  | <b>\$2.50</b>  |
| <b>Kuskokwim/Yukon Area</b>   | <b>\$1.50</b>  |
| <b>Cordova</b>  | <b>\$5.00</b>  |
| <b>Shale Rock – Hope Tidelands</b>  | <b>\$11.33</b> |
| <b>Rock – For All of the Southcentral Region</b>                                | <b>\$3.00</b>  |
| <b>Contracts issued under AS 38.05.810(a)</b>                                   | <b>\$0.50</b>  |

# **STATEWIDE MATERIAL SITE INVENTORY**

## **MATERIAL SITE** **INSPECTION REPORT**

**Federal Project No. STP-000S(823)**  
**AKSAS Project No. 76149**

**COHOE LOOP ROAD**

**MS 461-297-1**  
**(MS 461-001-1)**  
**Cohoe Loop Road Pit**

April 24, 2015

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### **CATEGORY:**

#### **ACTIVE – OPEN**

According to information found in the DOT&PF EDMS system in January 2009, BLM and DNR case file abstracts and the Kenai Peninsula (KPB) Parcel Viewer, this site lies on State of Alaska lands managed by DNR. BLM issued a FUP to the Alaska Road Commission in 1953 which expired in 1954 (A-22514). Another application was made in 1955 but there was no record of use (A-30151).

DNR issued DOT&PF an indefinite FUP in 1962 for MS 461-001-1 in the N1/2NW1/4NW1/4 of Section 36, T3N R12W, SM (ADL 17649). The FUP was amended in 1981 to expand the site to the NW1/4NW1/4 of Section 36 and the expiration date was set for 1986. In 1982 the site (now MS 461-297-1) was again expanded to include the N1/2NW1/4 of Section 36.

## MS 461-297-1

In 1996 DNR issued a material sale contract to DOT&PF that expired in 2001 (ADL 226830). Both case file abstracts (ADL 17649 and 226830) are open but only ADL 226830 is shown on the Status Plat and is being updated. ADL 17649 was archived in 1990 and the file was apparently misplaced. There was a period between 1990 and 2014 where the material sales were delayed due to the School Trust Land Holding issues.

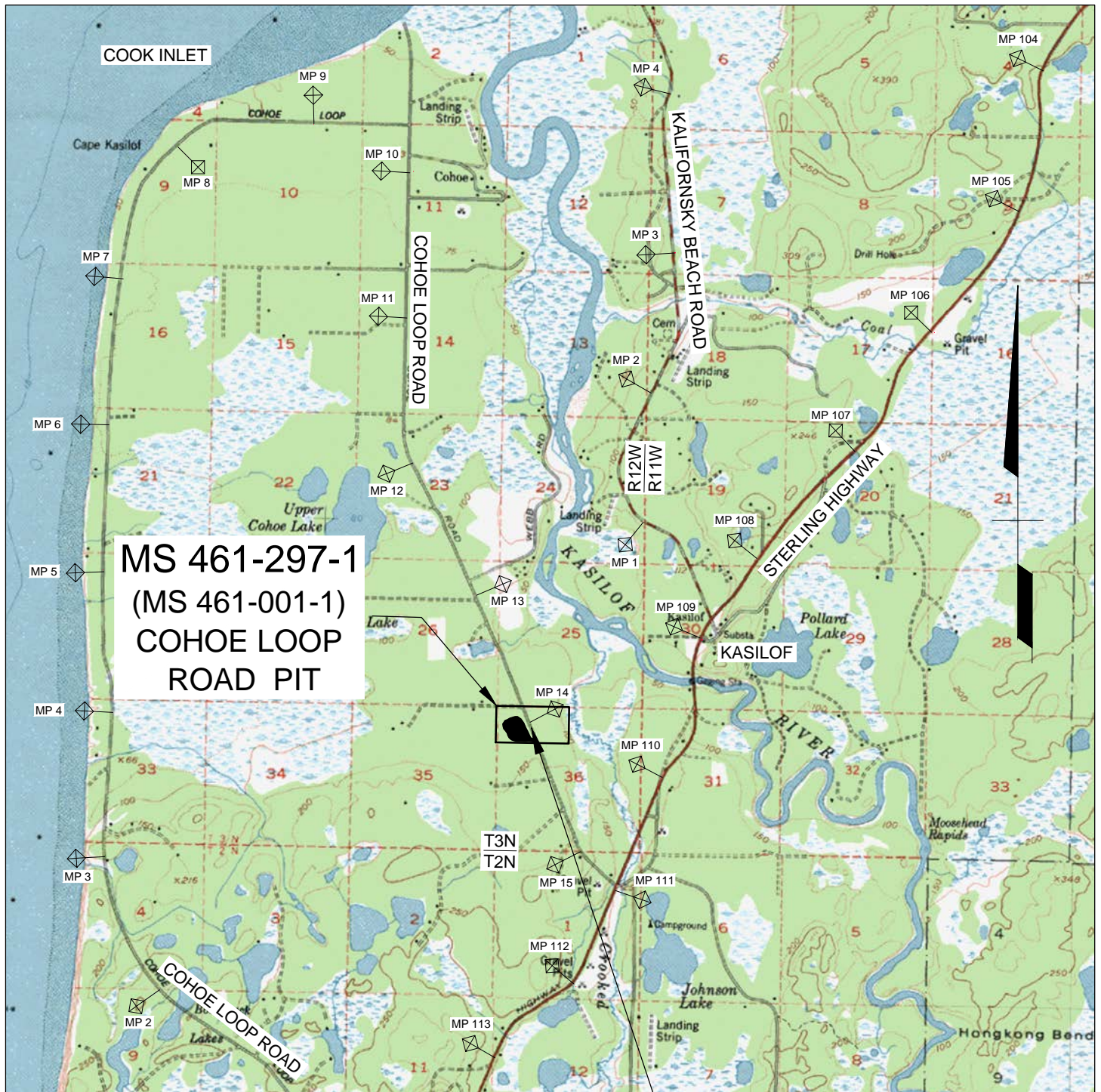
The contract was reissued to DOT&PF in 2014 with an expiration date of April 30, 2024. The site is on School Trust Land Holdings and material must be sold at fair market value. The value in 2014 was determined to be \$3.25 per cubic yard.

The site is a DMLW Southcentral Region Office (SCRO) Designated Master Material Site (ADL 231493) under AS 38.05.550(b) for the use and operation for the long-term sale and extraction of materials until closed by DNR. It was on the November 29, 2012 list of sites selected for the DNR program.

The Cohoe Loop Road right-of-way crosses through the site and there is an existing access road. The site appears to contain significant quantities of sand and gravel and should be obtained by DOT&PF for future use. The site qualified for prior existing use status and a KPB conditional land use permit may not be required at this time.



# LOCATION MAP



U.S.G.S. QUADRANGLE: KENAI (B-4)

GPS COORDINATES FROM GOOGLE EARTH

UTM (WGS84-METERS)  
 ZONE 5: N 6,687,477 E 594,284  
 AK STATE PLANE (NAD83-US SURVEY FT)  
 ZONE 4: N 2,308,547 E 1,405,910

## ACTIVE - OPEN



GRAPHIC SCALE IN MILES

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES

STATEWIDE MATERIAL SITE  
 INVENTORY  
 MS 461-297-1

|                   |   |                                      |           |
|-------------------|---|--------------------------------------|-----------|
| SCALE<br>AS SHOWN | DESIGNED<br>P.K.H.<br>CHECKED<br>C.H.R. | DRAWN<br>P.K.H.<br>DATE<br>SEPT 2013 | PAGE<br>2 |
|-------------------|---|--------------------------------------|-----------|

BASE MAP CREATED WITH TERRAIN NAVIGATOR PRO

Prepared By:  
 R&M CONSULTANTS, INC.

Z:\project\1443.03\461\_Cohoe\_Loop\_Road\MS 461-297-1-A\acad\MS\_Topo\_Map\_461-297-1.dwg

Plotted 4/24/2015 1:04 PM by Pete Hardcastle



# SITE MAP



BASE MAP IS APRIL 17, 2011 DIGITALGLOBE SATELLITE IMAGERY.  
THIS IS A PLANNING DOCUMENT ONLY. THE MATERIAL SITE BOUNDARIES SHOWN ON THIS  
DRAWING ARE APPROXIMATE. OWNERSHIP OF THE LANDS ADJACENT TO THIS SITE ARE  
UNKNOWN. THE ACCESS ROW SHOULD BE VERIFIED.

## ACTIVE - OPEN



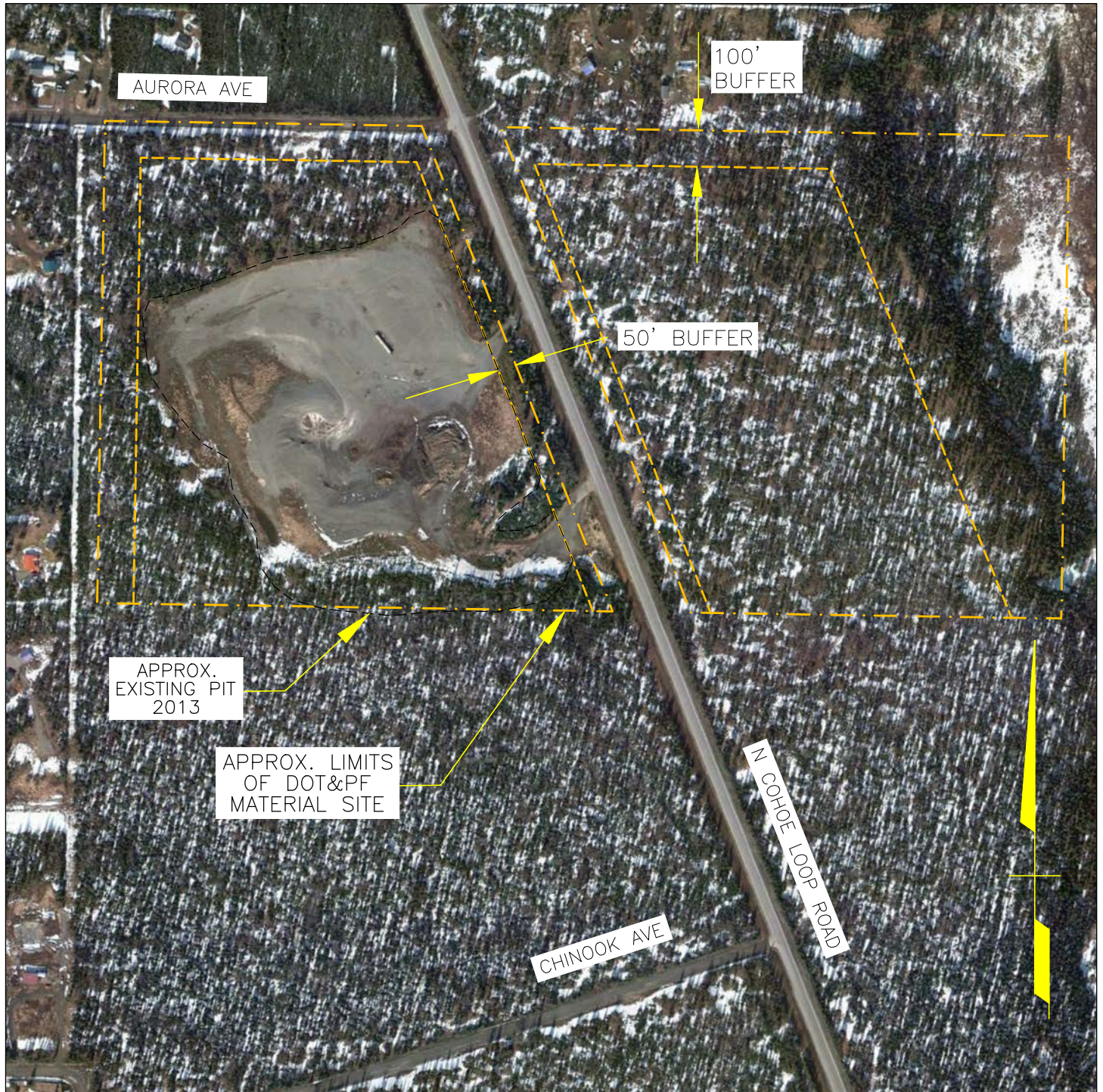
BASE MAP FROM GOOGLE EARTH PRO 7/31/13

Prepared By:  
R&M CONSULTANTS, INC.

| STATE OF ALASKA<br>DEPARTMENT OF TRANSPORTATION<br>AND PUBLIC FACILITIES |   |                                      |            |
|--|---|--------------------------------------|------------|
| STATEWIDE MATERIAL SITE<br>INVENTORY                                     |   |                                      |            |
| MS 461-297-1   |   |                                      |            |
| SCALE<br>AS SHOWN  | DESIGNED<br>P.K.H.<br>CHECKED<br>C.H.R. | DRAWN<br>P.K.H.<br>DATE<br>AUG. 2013 | PAGE<br>3A |



# SITE MAP



BASE MAP IS APRIL 17, 2011 DIGITALGLOBE SATELLITE IMAGERY.  
THIS IS A PLANNING DOCUMENT ONLY. THE MATERIAL SITE BOUNDARIES SHOWN ON THIS  
DRAWING ARE APPROXIMATE. OWNERSHIP OF THE LANDS ADJACENT TO THIS SITE ARE  
UNKNOWN. THE ACCESS ROW SHOULD BE VERIFIED.

## ACTIVE - OPEN



GRAPHIC SCALE IN FEET

BASE MAP FROM GOOGLE EARTH PRO 7/31/13

Prepared By:  
R&M CONSULTANTS, INC.

| STATE OF ALASKA<br>DEPARTMENT OF TRANSPORTATION<br>AND PUBLIC FACILITIES |   |                                      |            |
|--|---|--------------------------------------|------------|
| STATEWIDE MATERIAL SITE<br>INVENTORY                                     |   |                                      |            |
| MS 461-297-1   |   |                                      |            |
| SCALE<br>AS SHOWN  | DESIGNED<br>P.K.H.<br>CHECKED<br>C.H.R. | DRAWN<br>P.K.H.<br>DATE<br>AUG. 2013 | PAGE<br>3B |



**STATEWIDE MATERIAL SITE INVENTORY  
MATERIAL SITE INSPECTION FORM**

**THIS REPORT IS BASED ON A REVIEW OF EXISTING DATA AND BRIEF FIELD INSPECTIONS. THUS THE DATA CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY AND USED FOR PLANNING PURPOSES ONLY. USERS OF THIS DATA SHOULD VERIFY THE INFORMATION PRIOR TO USING IT FOR DESIGN OR CONSTRUCTION PURPOSES.**

**IF OTHER IS SELECTED FOR A SECTION, EXPLAIN IT IN SECTION 44. NOTES.  
IF AN ANSWER IS UNKNOWN SELECT "UNKNOWN" OR LEAVE BLANK**

1. **MS\_ID** 461-297-1  
Enter the full material site number e.g.. 31-3-045-2
2. **DATE\_INSPECT** 10/24/2013  
Date of field inspection
3. **FLD\_INSPEC\_ORG** AARON BANKS / R&M CONSULTANTS  
Name of inspector / Organization or Company

4. **REGION** CENTRAL
5. **LOCATION** COHOE LOOP ROAD  
Name of Highway Enter Name of Facility or Secondary Route Name  
(i.e. Kotzebue Airport, Nash Road, etc.)

6. **MILEPOST** 14  
List the closest main highway milepost

7. **NAME** Cohoe Loop Road Pit  
Enter commonly used name (s), e.g. Hess pit, Gobblers Knob, Midway. List all that apply separated by commas.

8. **MAINT\_DIST/STAT** District KENAI PENINSULA Station SOLDOTNA  
Highway Maintenance District and Station, for locations not on highways select other.

9. **QUAD** KENAI B-4  
U.S.G.S. Quad. Map

10. **TOWNSHIP/RANGE** T#S R#E T3N R12W & Meridian SM  
Section 36

11. **COOR\_UTM** ZONE 5  
NORTHING 6,687,477  
EASTING 594,284  
UTM WGS84 - Meters
12. **COOR\_STATE\_PLANE** ZONE 4  
NORTHING 2,308,547  
EASTING 1,405,910  
Alaska State Plane NAD83 - Survey Feet

13. **BOROUGH/CITY** KENAI PENINSULA BOROUGH **TAX ID NO.** 13311088

14. **DNR\_LAND\_USE\_PLAN** KENAI AREA PLAN

15. **CATEGORY** (To be filled in the office)

- 15a. **CLASSIFICATION** ACTIVE

- 15b. **STATUS** UNKNOWN

# STATEWIDE MATERIAL SITE INVENTORY MATERIAL SITE INSPECTION FORM

## 16. **POTENTIAL\_STATUS** SIGNIFICANT

Estimated quantity of material in the site at the time of inspection.

|             |   |
|-------------|---|
| NONE        | There appeared to be no useable material in the site.   |
| LIMITED     | There appeared to be less than 25,000 c.y. available within the developed site.   |
| SIGNIFICANT | There appeared to be greater than 25,000 c.y. available within the developed site.  |
| EXPANDABLE  | There was limited material within the developed site, but there appeared to be significant material outside existing site limits. |
| UNDEVELOPED | The pit has not been mined/explored (used only for proposed sites).   |
| CLOSED      | There may be useable material left in the pit but it is not available.  |
| UNKNOWN     |   |
| OTHER       | The site does not fit any of the categories above. Explain in Section 44, Notes.  |

## 17. **PRESENT\_USERS**

17a. **PRESENT\_USER\_1** DOT&PF MAINTENANCE

17b. **PRESENT\_USER\_2** DOT&PF CONSTRUCTION

17c. **PRESENT\_USER\_3** \_\_\_\_\_

18. **PERMITTED\_ACREAGE** 80

Area within site permit or R.O.W. boundaries, from permit application or property plat.

19. **DEVELOPED\_ACREAGE** 20.3

Area within an existing pit, excluding spoil berms lying outside the pit, access roads etc. Explain below.

Existing Pit, includes area next to highway inside currently proposed buffers.

## 20. **ACREAGE\_COMP\_METHOD** FROM MAP/PHOTO

Method used to determine developed acreage.

21. **EST\_QUAN\_AVAIL** 740,000 ROUGH ESTIMATE

Estimated quantity available (b.c.y.), may be based on acreage computed above plus expansion area.

Explain computation assumptions and calculations below.

| Area                        | Existing Pit West | Undeveloped Area | East of Road |
|-----------------------------|-------------------|------------------|--------------|
| Acres                       | 19.4              | 9.2              | 23.1         |
| Est. Depth (ft.)            | 5                 | 20               | 20           |
| Factor (b.c.y. / acre-foot) | 1,000             | 1,000            | 1,000        |
| Est. Quant. (c.y.)          | 97,000            | 184,000          | 462,000      |

The estimated quantity assumes that the undeveloped portion of the site can be mined to an average of 23 feet in depth, with an average of 3 feet of overburden.



**STATEWIDE MATERIAL SITE INVENTORY  
MATERIAL SITE INSPECTION FORM**

22. **ACCESS\_TYPE** EXISTING ROAD / OPEN

|                                |   |
|--------------------------------|---|
| NONE                           | No access road has been built.  |
| EXISTING ROAD / OPEN           | Drivable. May have gate.  |
| EXISTING ROAD / REVEG          | Can be reopened with little effort.   |
| EXISTING ROAD / CLOSED W/BERMS | Can be reopened with little effort.   |
| EXISTING ACCESS / REMOVED      | Can be reopened with much effort.   |
| SNOW ROAD                      | Can only be accessed during winter.   |
| ICE ROAD                       | Requires crossing river or lake ice in the winter.                                |
| BARGE                          | Material can only be moved by barge.  |
| OTHER                          | The site does not fit any of the categories above. Describe in Section 44, Notes. |

23. **ACCESS\_LENGTH** 150  
Approx. length from edge of pit to highway/secondary route (ft.)

24. **VEGETATION**

Vegetation consists of spruce and poplar up to 16 in. in diameter on 10 to 20 foot centers.

25. **TYPE\_1** BORROW PIT 26. **TYPE\_2** \_\_\_\_\_

Dominant type Subordinate type  
General Types of Materials Available Enter data in Type\_2 only if two types of material site available

|            |   |
|------------|---|
| QUARRY     | Bedrock sources requiring blasting                  |
| BORROW PIT | Soils or soft bedrock (rippable), above water table |
| BAILING    | Requires production below the water table           |
| RIVER BAR  | Sand/gravel bars in active channels                 |

27. **OB\_CLASS\_1** 3 TO 6 FT. 28. **OB\_CLASS\_2** <3 FT.

New Site or expansion Area Existing Pit (Spoil)  
A site may have both. Data should be based on actual subsurface exploration, otherwise unknown.  
Estimated average depth over the area.

|        |            |         |
|--------|------------|---------|
| NONE   | 3 TO 6 FT. | UNKNOWN |
| <3 FT. | >6 FT.     | OTHER   |

29. **OB\_TYPE\_1** SILT 30. **OB\_TYPE\_2** SPOIL

New Site or expansion Area Existing Pit (Spoil)  
A site may have both.

|           |       |             |       |
|-----------|-------|-------------|-------|
| SILT      | PEAT  | SOLID WASTE | OTHER |
| COLLUVIUM | SPOIL | UNKNOWN     |       |

**STATEWIDE MATERIAL SITE INVENTORY  
MATERIAL SITE INSPECTION FORM**

|  |   |   |
|--|---|---|
| <b>31. MAT_TYPE_1</b><br>Dominant type   | <b>FLUVIAL</b>  | <b>32. MAT_TYPE_2</b><br>Subordinate type |
| BEDROCK<br>WEATHER. BEDROCK<br>FLUVIAL<br>GLACIAL<br>COLLUVIAL<br>EOLIAN<br>SILT | Bedrock sources requiring blasting<br>Bedrock sources requiring ripping<br>Water deposited sand and gravel, includes glaciofluvial<br>Glacial till<br>Talus slopes, etc.<br>Sand Dunes, etc.<br>Silt deposits, loess, fluvial, etc. |   |

|  |  |
|--|--|
| <b>33. PERMAFROST_1</b><br>New Site or Expansion Area  | <b>DETECTED IN NO TEST HOLES OR PITS</b> |
| <b>34. PERMAFROST_2</b><br>Existing Site<br><br>DETECTED IN MOST TEST HOLES<br>DETECTED IN SOME TEST HOLES<br>DETECTED IN IMMEDIATE VICINITY<br>DETECTED IN NO TEST HOLES<br>DATA OUTDATED<br>UNKNOWN<br>OTHER | <b>DATA OUTDATED</b>                     |

**35. GROUNDWATER**

Groundwater was not observed in test pits to 17 feet in depth, excavated in November 1987.

# STATEWIDE MATERIAL SITE INVENTORY

## MATERIAL SITE INSPECTION FORM

### 36. LITHOLOGY\_1

GLACIOFLUVIAL

### 37. LITHOLOGY\_2

Dominant type

Subordinate type

IGNEOUS ROCK

Undifferentiated Igneous Rocks

GRANITIC

Granite/Monzonite/Granodiorite

DIORITE/GABBRO

Diorite/Gabbro

BASALT

Dark colored fine-grained Igneous Rocks

GREENSTONE

Altered Volcanic Rocks w/green tint

METAMORPHIC ROCK

Undifferentiated Metamorphic Rocks

SCHIST/PHYLLITE

Includes rocks ranging from slate to schist

GNEISS

Includes hard schistose rocks

MARBLE

CATACLASTIC

Incl. Valdez Formation Rocks, Kenai Penn.

MÉLANGE

Incl. McHugh Formation Rocks, Kenai Penn.

SEDIMENTARY ROCK

Undifferentiated Sedimentary Rocks

CONGLOMERATE

SANDSTONE

Includes greywacke, etc.

SHALE/MUDSTONE

LIMESTONE

FLUVIAL

River and stream deposits (floodplain), includes outwash.

ALLUVIAL

Alluvial / Debris Fan deposits

GLACIOFLUVIAL

Eskers, kames, etc.

GLACIAL

Till

COLLUVIAL

Talus, etc.

EOLIAN

Sand Dunes, etc.

SILT

Loess, fluvial silts, etc.

OTHER

Explain in Section 44.

### 38. MATERIAL\_CLASSIFICATION

ASTM Classification, generally they should range from coarse to fine.

38a. GP

38c. GP-GM

38e. \_\_\_\_\_

38g. \_\_\_\_\_

38b. GW

38d. SP

38f. \_\_\_\_\_

38h. \_\_\_\_\_



# STATEWIDE MATERIAL SITE INVENTORY

## MATERIAL SITE INSPECTION FORM

### 39. COBBLES AND BOULDERS

Test Boring Callout / ASTM Classification, either a. or b. and c. not both (Can use ranges i.e. 0 to 20)

|      |                 |         |                                 |
|------|-----------------|---------|---------------------------------|
| 39a. | CONTAINS        |         |                                 |
| 39b. | Est. % by VOL.  | 5 to 20 | (Est. From Visual Observations) |
| 39c. | MAX. SIZE (in.) | 7       | (Observed Size)                 |

### 40. AGG TEST RESULTS

Year of test or report- Test result / Year of test or report- Test Results

|                         |   |
|-------------------------|---|
| 40a. SG APP COARSE      | 1980- 2.74 / 1987- 2.72                 |
| 40b. SG APP FINE        | 1980- 2.71 / 1987- 2.69                 |
| 40c. ABSORPTION CRSE    |   |
| 40d. ABSORPTION FINE    |   |
| 40e. NORDIC ABRASION    |   |
| 40f. L.A. ABRASION      | 1987- 16                                |
| 40g. DEGRADATION (T-13) | 1980- 63, 61 / 1987- 54, 57, 75, 77, 78 |
| 40h. NASO4 LOSS COARSE  | 1980- 3 / 1987- 0                       |
| 40i. NASO4 LOSS FINE    | 1980- 5 / 1987-2                        |

### 41. POTENTIAL\_USABILITY

### CRUSHED PRODUCTS PRODUCED

Best known potential use of the material, based on records, exploration and laboratory data.

|                                 |  |
|---------------------------------|--|
| CONCRETE AGGREGATE PRODUCED     | The site has produced concrete aggregate                       |
| PAVING AGGREGATE PRODUCED       | The site has produced paving aggregate                         |
| CRUSHED PRODUCTS PRODUCED       | Base, Surface Coarse, Subbase, etc. has been produced.         |
| TYPE A AND B MATERIAL AVAILABLE | 0 to 10 percent passing 200                                    |
| TYPE C AVAILABLE                | Compactable material   |
| TYPE C NOT AVAILABLE            | Uncompactable material (Lower Kuskokwim and Yukon River, etc.) |
| UNKNOWN                         |  |
| OTHER                           | Explain in Section 44.   |

### 42. SPECIAL\_PROBLEMS

Special problems encountered or anticipated with use of the material, based on records, exploration and laboratory data.

|                            |   |
|----------------------------|---|
| ORGANIC CONTENT            | The material is very difficult to compact.                                      |
| HIGHLY WEATHERED GRAVEL    | The gravel is highly weathered and may break down when handled.                 |
| BREAKS DOWN UNDER USE      | Material breaks down on grade.  |
| SENSITIVE TO WATER CONTENT | Material is sensitive to water content, i.e.. some glacial tills, soft bedrock. |
| VARIABLE MATERIAL          | Deposit contains mixture of suitable and unsuitable material.                   |
| POSSIBLE CONTAMINATION     | Site may be contaminated by petroleum products or hazardous materials.          |
| CONTAINS ASBESTOS          | Site contains naturally occurring asbestos.                                     |
| POTENTIAL ASBESTOS         | Site in area where naturally occurring asbestos is mapped.                      |
| ACID ROCK DRAINAGE         | Site contains rock susceptible to producing acid rock drainage.                 |
| OTHER                      | Explain in Section 44, Notes.   |

**STATEWIDE MATERIAL SITE INVENTORY  
MATERIAL SITE INSPECTION FORM**

**43. RIPRAP**

**NOT POSSIBLE**

Class II or larger. Does not include production for erosion control riprap for ditches or culverts.

PREVIOUS PRODUCTION

There is a record of production.

POSSIBLE FURTHER INVESTIGATION NEEDED

The site is a bedrock quarry containing hard rock

NOT POSSIBLE

The site has soft rock or soil.

UNKNOWN

OTHER

Explain in Section 44, Notes.

**44. NOTES**

Note number of item being discussed.