

**STATEWIDE MATERIAL SITE INVENTORY**

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

**Federal Project No. STP-000S(530)**  
**AKSAS Project No. 76174**

**DALTON HIGHWAY**

**MS 65-9-055-2**  
**Stockpile Site**

November 12, 2009

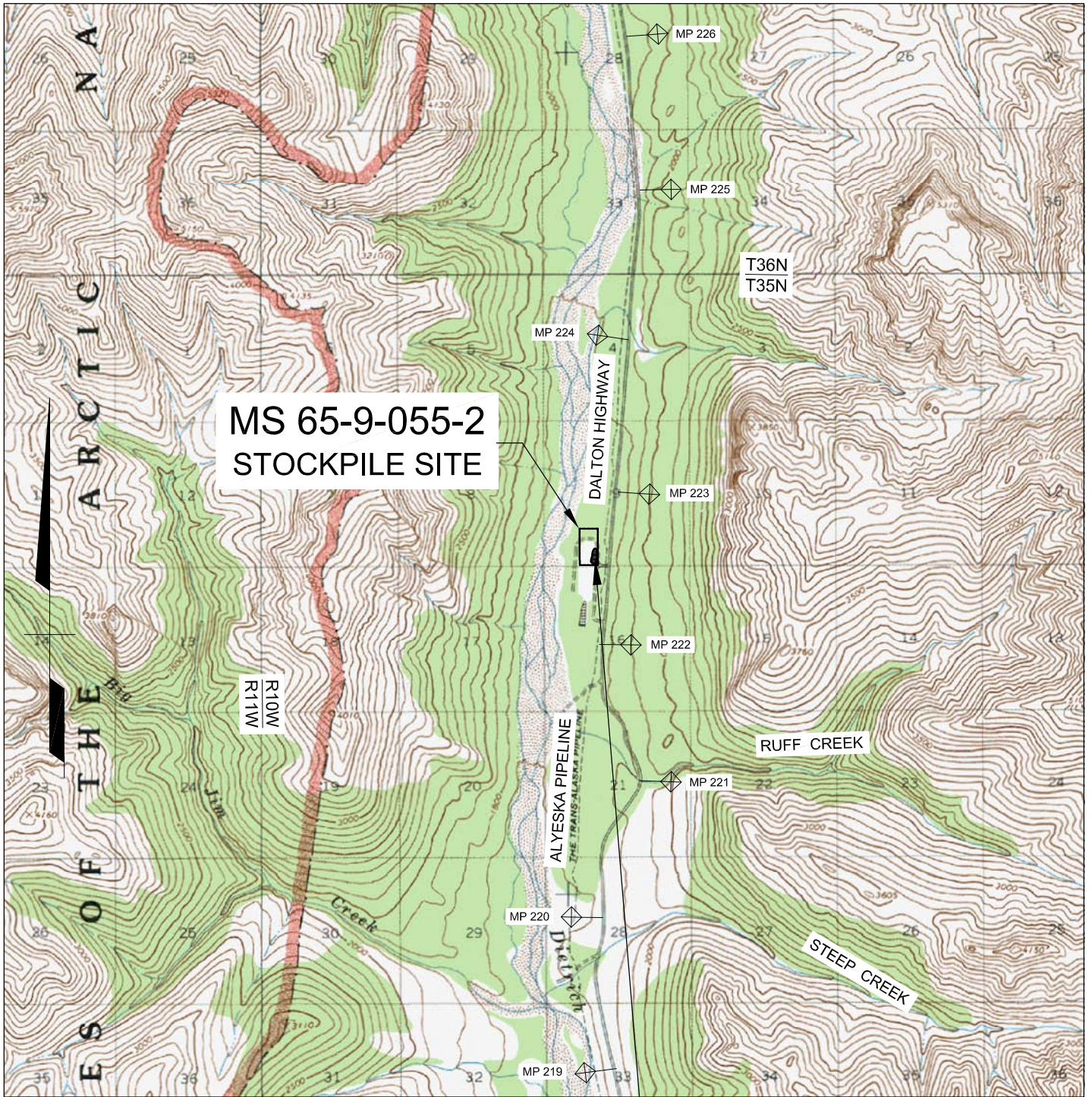
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**CATEGORY:**

**ACTIVE – OPEN**

According to information found in the DOT&PF EDMS system in January 2009 and BLM case file abstracts, this site lies on Federal lands managed by BLM. The site (MS 106-2) was developed during the construction of the Dalton Highway and Alyeska Pipeline in the 1970's. DOT&PF is currently operating under a FUP (F-093022) which expires December 31, 2010. The site lies in the floodplain of the Dietrich River and includes a large stockpile. An existing access road (106-APL/AMS-2B) has connected the site to the Dalton Highway but is washed out at this time. Access right-of-way is included in the permit. The only significant material in the site is in the large stockpile which is presently cutoff from the Dalton Highway. The site should be retained until the stockpile either washes away or can be removed.

# LOCATION MAP



**MS 65-9-055-2  
STOCKPILE SITE**

U.S.G.S. QUADRANGLE: CHANDALAR (D-6)

GPS COORDINATES FROM GOOGLE EARTH  
 UTM (WGS84-METERS)  
 ZONE 6 N7,530,683 E381,043  
 AK STATE PLANE (NAD83-US SURVEY FT)  
 ZONE 4: N5,068,600 E1,663,869

**ACTIVE - OPEN**



GRAPHIC SCALE IN MILES

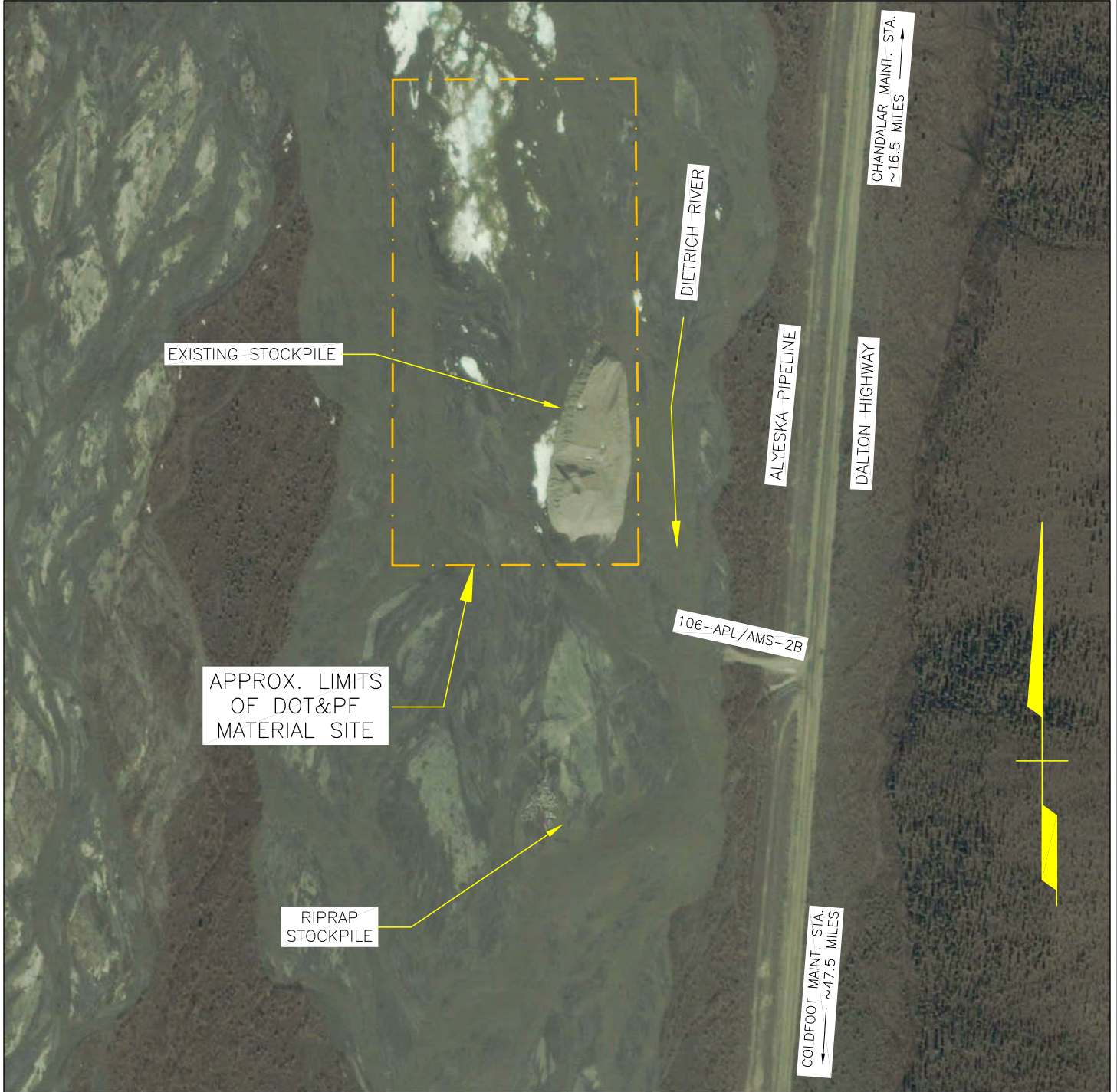
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES

STATEWIDE MATERIAL SITE  
 INVENTORY

MS 65-9-055-2

SCALE AS SHOWN	DESIGNED P.K.H.	DRAWN A.T.B.	PAGE 2
	CHECKED C.H.R.	DATE MAY 2009	

# SITE MAP



BASE MAP IS 2005 SATELLITE PHOTOGRAPHY. 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 6/01/09

Prepared By:  
R&M CONSULTANTS, INC.

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
STATEWIDE MATERIAL SITE INVENTORY			
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SCALE AS SHOWN	DESIGNED P.K.H. CHECKED C.H.R.	DRAWN P.K.H. DATE JUNE 2009	PAGE 3

**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** 65-9-055-2  
Enter the full material site number e.g.. 65-9-045-2
2. **DATE\_INSPECT** 7/23/2009  
Date of field inspection
3. **FLD\_INSPEC\_ORG** AARON BANKS / R&M CONSULTANTS  
Name of inspector / Organization or Company

4. **REGION** NORTHERN
5. **LOCATION** DALTON HIGHWAY  
Name of Highway Enter Name of Facility or Secondary Route Name  
(i.e.Kotzebue Airport, Nash Road, etc.)

6. **MILEPOST** 222.5  
List the closest main highway milepost

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

8. **MAINT\_DIST/STAT** District INTERIOR/DALTON Station CHANDALAR  
Highway Maintenance District and Station, for locations not on highways select other.

9. **QUAD** CHANDALAR D-6  
U.S.G.S. Quad. Map

10. **TOWNSHIP /RANGE** T#S R#E T35N R10W Meridian FM  
Section 9

- |                     |                           |                             |  |
|---------------------|---------------------------|-----------------------------|--|
| 11. <b>COOR_UTM</b> | ZONE <u>6</u>             | 12. <b>COOR_STATE_PLANE</b> | ZONE <u>4</u>                          |
|                     | NORTHING <u>7,530,683</u> |                             | NORTHING <u>5,068,600</u>              |
|                     | EASTING <u>381,043</u>    |                             | EASTING <u>1,663,869</u>               |
|                     | UTM WGS84 - Meters        |                             | Alaska State Plane NAD83 - Survey Feet |

13. **BOROUGH** UNORGANIZED **TAX ID NO.** \_\_\_\_\_

14. **DNR\_LAND\_USE\_PLAN** DALTON HIGHWAY MASTER PLAN

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

- 15a. **CLASSIFICATION** ACTIVE

- 15b. **STATUS** OPEN



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

22. **ACCESS\_TYPE** \_\_\_\_\_

**OTHER**

NONE  
EXISTING ROAD / OPEN  
EXISTING ROAD / REVEG  
EXISTING ROAD / CLOSED W/BERMS  
EXISTING ACCESS / REMOVED  
SNOW ROAD  
ICE ROAD  
BARGE  
OTHER

No access road has been built.  
Drivable. May have gate.  
Can be reopened with little effort.  
Can be reopened with little effort.  
Can be reopened with much effort.  
Can only be accessed during winter.  
Requires crossing river or lake ice in the winter.  
Material can only be moved by barge.  
The site does not fit any of the categories above. Describe in Section 44, Notes.

23. **ACCESS\_LENGTH** \_\_\_\_\_

**600**

Approx. length from edge of pit to highway/secondary route (ft.)

24. **VEGETATION**

The stockpile site is located within the unvegetated Dietrich River floodplain.

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  
BORROW PIT  
BAILING  
RIVER BAR

Bedrock sources requiring blasting  
Soils or soft bedrock (rippable), above water table  
Requires production below the water table  
Sand/gravel bars in active channels

27. **OB\_CLASS\_1** \_\_\_\_\_

**NONE**

28. **OB\_CLASS\_2** \_\_\_\_\_

**NONE**

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 FT.

3 TO 6 FT.  
>6 FT.

UNKNOWN  
OTHER

29. **OB\_TYPE\_1** \_\_\_\_\_

**NONE**

30. **OB\_TYPE\_2** \_\_\_\_\_

**NONE**

New Site or expansion Area

Existing Pit (Spoil)

A site may have both.

SILT  
COLLUVIUM

PEAT  
SPOIL

SOLID WASTE  
UNKNOWN

OTHER

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

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

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

35. **GROUNDWATER**

The water table is influenced by the flow in the river.

**STATEWIDE MATERIAL SITE INVENTORY  
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**36. LITHOLOGY\_1**

FLUVIAL

**37. LITHOLOGY\_2**

Subordinate type

Dominant 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. <u>GW</u>	38c. <u>GW-GM</u>	38e. _____	38g. _____
38b. <u>GP</u>	38d. _____	38f. _____	38h. _____



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**43. RIPRAP**

**OTHER**

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.

22. The access road (106-APL/AMS-2B) has washed out and the stockpile site is located within the active channel of the Dietrich River.

43. Approximately 150 pieces of Class II to Class IV rip rap were located 800 feet south of the main stockpile site.