52-2-068-2

NOTICE

The Materials Source data and information included in this file has been gathered and compiled for the express purpose of assisting in The Alaska Department of Transportation and Public Facilities during the design process of various projects. It does not signify that the source is available or suitable for use during the construction of any specific current or future project. The included data and information does not determine that this Materials Source will provide suitable materials in the required quantities for any construction project.

The included data and information is suitable for use by experienced and qualified experts in the fields of geology, geological engineering, and geotechnical engineering to make reasonable estimates regarding the quantity, quality, and suitability for construction purposes of material that can be produced from the source.

Sources intended for use for any specific construction project will be referenced in the appropriate section of the Plans and Specifications of the Contract Documents for that construction project.

MATERIAL SOURCE USE REPORT - 1989

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Highway/Place PARKS HIGHWAY

TML 1 _____

Date of report 12-5-89

M.S. No.	Mile Post	BLM/ADL No.	Qty. Used / Type / Comments
M> 522-068-21	217	033438	800-1000 CY. CLASS TT RUDRAD
<u>)</u>			General Contraction of the Contr
	/		· · · · · · · · · · · · · · · · · · ·
MS 522.046-2	217	029729	1400 - 1800 C.Y. CLASS IT RIPRAP:
			WOULD REQUIRE
	-		SELECTIVE MINING
		·	
·)			
		····	····
	·		
			·
	·····		
	 	<u> </u>	

121 11 1 portal (1947) 1992 Nore: Contractor had to ****150 BRS SCAVENGE ENTRE pit area 385-P.0. TO TRY to FIND Enough NAR PARKS 143 MILES Class II RIPEAP, (Pit appears × 349.66 to have been poorly mined in the past-test holes dug be the contractor showed 12' depths of Class I Riphap or smaller waste. 100.00. Boterning 358+87.36 S. 171.22' 169.15 358+50.10 P.O. MCH **(** ? M.S. 52-2-068-2* (This pit may be signed -058-?) AHTNA, INC. STATE MATERIAL RIGHTS PROJECT; PARNS Hwy, 216 Norry Ren A8. I-0.44 -3(7)/6492.4 **RIPRAP SOURCE**



· .

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Anchorage District Office 4700 East 72nd Avenue Anchorage, Alaska 99507 2800 (014) F-033438

APR 23 1984

CERTIFIED MAIL RETURN RECEIPT REQUESTED

DECISION

•

:

:

F-033438

Material Site

Right-of-Way

Ahtna, Incorporated Drawer G Copper Center, Alaska 99573

State of Alaska Department of Transportation and Public Facilities Pouch 6900 Anchorage, Alaska 99502

Administration Waived Case Closed

Interim Conveyance No. 443, issued October 23, 1981, to the Ahtna, Incorporated is subject to the following right-of-way.

<u>Serial No.</u>	Туре	Grantee	Expiration Date
F-033438	Right-of-Way	State of Alaska	Perpetua1

Pursuant to Section 14(g) of the Alaska Native Claims Settlement Act (ANCSA) of December 18, 1971, the United States hereby waives administration of the above described right-of-way. This waiver affects all of the right-of-way which is contained in Interim Conveyance No. 443, more specifically described as Section 1, T. 17 S., R. 7 W., Fairbanks Meridian. Pursuant to law, the grantee is entitled to all rights, privileges, and benefits granted by the terms of the right-of-way during the term of the grant until it expires, is relinquished, or is modified by mutual consent of Ahtna, Incorporated and the State of Alaska, Department of Transportation and Public Facilities.

Ahtna, Incorporated is entitled to any and all interests previously held by the United States as grantor in any such grant within the conveyance boundaries.

There are no rental, or other revenues associated with this right-of-way.

The pertinent documents covering the use authorization for which we are waiving administration are enclosed. The original case file will be transmitted under separate cover; since it will be retained in this office for approximately 45 days, until the appeal period is over.

An appeal from this decision may be taken to the Board of Land Appeals, Office of Hearings and Appeals, in accordance with the attached regulations in Title 43

<u>Code of Federal Regulations (CFR)</u>, Part 4, Subpart E. If an appeal is taken, the notice of appeal must be filed in the Anchorage District Office of the Bureau of Land Management within 30 days of the receipt of this decision. Do not send the appeal directly to the Board. The appeal and case history file will be sent to the Board from this office. The regulations also require the appellant to serve a copy of the notice of appeal, statement of reasons, written arguments or briefs on the Regional Solicitor, Alaska Region, U.S. Department of the Interior, 701 C Street, Box 34, Anchorage, Alaska 99513. To avoid summary dismissal of the appeal, there must be strict compliance with the regulations. Form 1842-1 is enclosed for additional information.

Mula Hastins

Chief, Branch of Case File Processing

Enclosures: (5) 1 - Form 1842-1 2 - Appeal Regulations 3 - Pertinent Documents F-033438

1 e

4 - Status Plat

5 - Conveyance Documents

Copy Furnished To:

State of Alaska Department of Transportation and Public Facilities Regional Director Maintenance of Operations Box 2301 Peger Road Fairbanks, Alaska 99701



State o Alaska

TO: Tom Kouremetis Right-of-Way Supervisor

October 4, 1974 DATE:

FILE NO:

Attn: Evolyn Melville

SUBJECT:

Donald W. Benjamin Cub FROM: Project Engineer

For EV M.

Summary of Material Sources Cantwell-McKinley Park Project No. BRF-ALF-037-2(19)

Project Pit No.	M.S. No.	Station	Quantity Used in Tons	Type of Material
52-2	522-052-2	164+83.4 to 173+00	144,406	Subbase & Borrow
44-21	522-044-2	233+00 to 241+00	164,041	Borrow
55-2/	522-055-2	246+00 to 252+00	95,374	Borrow
V68-2/	522-068-2	340+00 to 363+00	89,097	Riprap
59-2/	522-059-2	392+00 to 401+08.1	234,479	Borrow
47-2	522-047-2	514+98.7 to 526+90	280,084	Subbase & Borrow
48-2-	522-048-2	2138+14.4 to 2147+71	109,772	Borrow
64-2	522-064-2	2177+00 to 2187+00	132,439	Borrow
T.T.O. Sta. 2360 Rt	. None	2360+00 right	95,369	Subbase & Borrow & Riprap 1-A

Accumulative



WILLIAM A. EGAN, GOYERNOR

DEPARTMENT OF HIGHWAYS

INTERIOR DISTRICT / 2301 PEGER ROAD FAIRBANKS 99701

September 10, 1973

our	Reference:	2800 (220)
•		F-029727
	1	F-029729
•	4	F-029731
		F-033437
		F-033434
	· · ·	F-033436
• • * [•]	in the second	F-033438
	· · · · · · ·	R_033500

Bureau of Land Management Fairbanks District Office P. O. Box 1150 Fairbanks, Alaska 99707

Attention: Harold E. Waldo Chief, Division of Land Office

Dear Mr. Waldo,

Please be advised, in response to your letter of September 4, 1973, that these grants for material sources were used for construction and maintenance on Cantwell to Nenana #2 section of the Fairbanks-Anchorage Highway. The material is primarily gravel and quantities are listed below:

029727	M.S.	52-2-044-2	119,985	tons
F-029729	M.S.	52-2-046-2	2,200	yards
F-029731	M.S.	52-2-048-2	109,769	tons
F-033437	M.S.	52-2-055-2-	97,914	tons
F-033434	M.S.	52-2-047-2-	222,208	tons
E-033436	· M.S.	52-2-059-2	1,750	yards
F-033438	M.S.	52-2-068-2	750	yards

Please refer to your case file F-033590: this grant was for a Channel Change, the material source stipulations are not applicable, and we so mentioned in our letter to your office dated April 10, 1972.

Sincerely yours,

WOODROW JOHANSEN Interior District Engineer

Tomas Fariants

Thomas Kouremetis Interior District R/W Agent

AccumuteTivo

Nenana Recording District Serial No. 64-280 UNITED STATES Serial number below DEPARTMENT OF THE INTERIOR F-033438 BUREAU OF LAND MANAGEMENT PARTYANKS XEANAX ANALY and Land Office P.O. Box 1150 Fairbanks, Alaska

Fairbanks District

DECISION

RIGHT-OF-WAY GRANTED

Details of Grant _

Serial number of grant Fairbanks 033438

Name of grantee State of Alaska, Department of Highways, Box 1841, Juneau, Alaska

· lind

Map showing the location and dimensions of grant:

> Map designations Department of Highways Plat, Project No. F-052-2(1), Cantwell to Nenana No. 2, Parcel No. M.S. 522-068-2, 62-2505 Date filed October 1, 1964

Permitted use by grantee Material Site

Authority for grant Federal Aid Highway Act of November 9, 1921. Regulations applicable to grant: 43 CFR 2234.1-1 and 2234.2-4 (formerly 43 CFR, Part 244, subparts "A" and "G") Code reference (23 U.S.C. 317) as amended

Circular number 1915 and 2084 Date of grant NOV 1 8 1964 Expiration date of grant None Rental:

None

RECEIVED

NOV 18 1964

Date:

NOV 1 9 1964

FAIRBANKS DISTRICT OFFICE

-1-

WAGAL ASTANIAX & X & BAKEAA RECORDED ; FILED Chemonia REC. DIST. DATE 7074 23 , 1969 11 20

Amount

ENGINEER'S STATEMENT ANDY ZAHARE States that he is by occuration a Civil Engineer employed by 0/14 Alaska Department of Highways to supervise the survey of Highway Project Nº F-052-2(1) as shown on this plat, that the survey of said Project was made under his supervision and under outhority, that this parcel was surveyed during the "L" 366+52.7 survey of this Highway Project which was conducted PI = "L" 366+95.3 in 1953, and that such survey is accurately repre-A 29 45 sented upon this plat. D . 3.0' Engineer Strate Cal 349.6 T . 5073 APPLICANT'S CERTIFICATE 907 L .991.7' This is to certify that ANOY ZAHARE who subscribed the statement hereon is the person employed by the undersigned applicant to supervise the preparation of this plat, which has been adoped by the applicant as the approximate final location of the Project thereby shown, and that this plat is filed as part of the complete application, and in MS 522-068-2 order that the applicant may obtain the benefits 202 "L" 361+87.9 PC of the Act of August 27, 1958 (72 Stat. 885, 23 6.270 acres U.S.C. 317) and I further certify that the right-ofway herein described is desired for Alaska Project BLM Bark Nº F-052-2(1) F_ 033438 n Commissioner Attest 3 .90° 90% STATE OF ALASKA 359+00 400' DEPARTMENT OF HIGHWAYS 100 Lat 63" 28'07"N -200 PLAT Long. 148.48'34"W SHOWING-MATERIAL SOURCE REQUIRED FOR PROJECT F-052-2(1) FAIRBANKS DISTRICT SQ FT. 6.270 ACRES AREA PARCEL N. M.S. 522-068-2 DATE JULY 15 1964 SCALE: I" = 200' DRAWN BY J.F.M



.



STATE OF ALASKA DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES

SCALE: 1"=100'



GEOLOGIC INFORMATION

STATEWIDE MATERIAL SITE INVENTORY

MATERIAL SITE INSPECTION REPORT

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

NORTHERN PARKS HIGHWAY

MS 52-2-068-2 Panorama Mountain #2

November 30, 2010

<u>CONTENTS</u>	PAGE
COVER SHEET	1
LOCATION MAP	2
SITE MAP	3A & 3B
INSPECTION FORM	4 thru 10

CATEGORY:

ACTIVE – STATUS UNKNOWN

According to information found in the DOT&PF EDMS system in January 2009 and BLM and DNR case file abstracts, this site lies on lands owned by the Cantwell Yedatene NA, Corporation (surface) and AHTNA, Incorporated (subsurface). The site was originally designated MS 22-337-63 and Pit "O". An indefinite right-of-way grant (F-33438) was issued to DOT&PF by BLM in 1964. An interim Conveyance (IC 443) for the land was issued to AHTNA, Incorporated (F-14844-AZ) and the Cantwell Yedatene NA, Corporation (F-14844-A) by BLM in 1981. BLM transferred administration of the site to AHTNA in 1984. The Alaska Power Authority (now Alaska Energy Authority) was issued a public easement (ADL 213063) in 1988 for the Willow-Healy Intertie, which crosses the site. The site limits do not abut the Parks Highway right-of-way. There is an existing access road. However, there appears to be a 19 to 33-foot gap between the site limits and the Parks Highway right-of-way and the access right-of-way is not clear. The site appears to contain significant quantities of talus and rock and should be retained by DOT&PF for future use.







DESIGNED P.K.H.

DRAWN P.K.H.

DATE JULY 2010

PAGE 3A

SCALE

R&M CONSULTANTS, INC. AS SHOWN CHECKED C.H.R.

Prepared By:

BASE MAP FROM GOOGLE EARTH PRO 7/18/2010



ACTIVE - STAT	US	
UNKNOWN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
	900	STATEWIDE MATERIAL SITE INVENTORY
GRAPHIC SCALE IN FEET		MS 52-2-068-2
BASE MAP FROM GOOGLE EARTH PRO 7/18/2010	Prepared By: R&M CONSULTANTS, INC.	SCALE DESIGNED P.K.H. DRAVN P.K.H. AS SHUWN CHECKED C.H.R. DATE JULY 2010 PAGE 3B

	THIS REPORT IS BASED ON A DATA CONTAINED HEREIN S PURPOSES ONLY. USERS OF DESIGN OR CONSTRUCTION	A REVIEW OF EXI SHOULD BE CONS THIS DATA SHOU PURPOSES.	ISTING SIDERI JLD VI	G DATA AND BRIEF FIELD INSPECTIONS. THUS THE RED PRELIMINARY AND USED FOR PLANNING /ERIFY THE INFORMATION PRIOR TO USING IT FOR
	IF <u>OTHER</u> IS SI IF AN ANSW	ELECTED FOR A S VER IS UNKNOWN	SECTIO N SELE	ION, EXPLAIN IT IN SECTION 44. NOTES. ECT ''UNKNOWN'' OR LEAVE BLANK
1.	MS_ID	52	-2-068	58-2
	Enter the full material site nu	umber e.g 37-3-0)45-2	
2.	DATE_INSPECT			8/8/2010
2	Date of field inspection			
3.	Name of inspector / Organization of	or Company		will RHODES / R&M CONSULTANTS
4.	REGION	NOF	RTHEF	RN
5.	LOCATION NO	ORTHERN PARI	KS HIO	IGHWAY
	Nam	e of Highway		Enter Name of Facility or Secondary Route Name (i.e.Kotzebue Airport, Nash Road, etc.)
6.	MILEPOST		21	217
	List the closest main highway mile	post		
7.	NAME	Panor	rama N	Mountain #2
	Enter commonly used name (s), e.g	g. Hess pit, Gobblers	Knob, I	, Midway. List all that apply separated by commas.
8.	MAINT_DIST/STAT	District INTER	IOR/F s not on	FAIRBANKS Station HEALY on highways select other.
9.	QUAD	HEAL	Y	B-4
	U.S.G.S. Quad. Map			
10.	TOWNSHIPT#S R#E/RANGESection	E T17S R7W	&	Meridian FM
11.	COOR_UTM			12. COOR_STATE_PLANE
	ZONE	6		ZONE 4
	NORTHING	7,039,315		NORTHING 3,462,520
	EASTING	409,627		EASTING 1,834,443
	UT	M WGS84 - Meters		Alaska State Plane NAD83 - Survey Feet
13.	BOROUGH/CITY D	ENALI BOROU	GH	TAX ID NO
14.	DNR_LAND_USE_PLAN		YU	UKON-TANANA AREA PLAN
15.	CATEGORY (To	be filled in the offic	e)	
15a.	CLASSIFICATION		ACT	TIVE
15b.	STATUS		UNKN	NOWN

16. POTENTIAL_STATUS	OTENTIAL_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	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 material outside existing site limits.	, but there appeared to be significant				
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. Exp	blain in Section 44, Notes.				
17. PRESENT_USERS						
7a. PRESENT_USER_1	DOT&PF MAINTENANCE					
	DOT&PF CONSTRUCTION					
Тъ. PRESENT_USER_2	70 PRESENT LISER 3					
 7b. PRESENT_USER_2 17c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 	GE <u>6</u> for R.O.W. boundaries, from permit application	or property plat.				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_OUAN_AVAL 	AGE 6 a or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 PO	or property plat. ccess roads etc. Explain below.				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL 	AGE 6 c or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ac ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO	or property plat. ccess roads etc. Explain below.				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation assi 	AGE 6 c or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed sumptions and calculations below	or property plat. ccess roads etc. Explain below. - <u>UGH ESTIMATE</u> above plus expansion area.				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation assumed 	AGE 6 c or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed auptions and calculations below.	or property plat. ccess roads etc. Explain below. - <u>UGH ESTIMATE</u> above plus expansion area.				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation asso Area 	AGE 6 c or R.O.W. boundaries, from permit application GE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed umptions and calculations below. Existing Pit Expansion Area	or property plat. ccess roads etc. Explain below. <u>UGH ESTIMATE</u> above plus expansion area. <u>Other area</u>				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation asso Area Square Ft. 	AGE 6 c or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed unptions and calculations below. Existing Pit Expansion Area 187599 6173	or property plat. ccess roads etc. Explain below. UGH ESTIMATE above plus expansion area. Other area 2 0				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation asso Area Square Ft. Acres 	AGE 6 c or R.O.W. boundaries, from permit application GE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed umptions and calculations below. Existing Pit Expansion Area 187599 6173 4.3 1.	or property plat. The second set c. Explain below. UGH ESTIMATE above plus expansion area. Other area 0 4 0.0				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation assu Area Square Ft. Acres Est. Depth (ft.) 	AGE 6 c or R.O.W. boundaries, from permit application AGE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed unptions and calculations below. Existing Pit Expansion Area 187599 6173 4.3 1. 39 4	or property plat. ccess roads etc. Explain below. UGH ESTIMATE above plus expansion area. Other area 0 4 0.0 9 0				
 7b. PRESENT_USER_2 7c. PRESENT_USER_3 18. PERMITTED _ACREA Area within site permi 19. DEVELOPED_ACREA Area within an existing p 20. ACREAGE_COMP_M Method used to determi 21. EST_QUAN_AVAIL Estimated quantity availa Explain computation asso Area Square Ft. Acres Est. Depth (ft.) Factor (b.c.y. / acre-foot) 	AGE 6 c or R.O.W. boundaries, from permit application GE 4.3 it, excluding spoil berms lying outside the pit, ad it, excluding spoil berms lying outside the pit, ad ETHOD FROM MAP/PHOTO ne developed acreage. 240,000 RO ble (b.c.y.), may be based on acreage computed unptions and calculations below. Existing Pit Expansion Area 187599 6173 4.3 1. 39 4 1,000 100	or property plat. Cress roads etc. Explain below. UGH ESTIMATE above plus expansion area. Other area 2 0 4 0.0 9 0 0 1,000				

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 catagories above. Describe in Section
	44, Notes.
3. ACCESS_LENGTH	300

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

24. VEGETATION

Vegetation consisted of scattered spruce trees and alder brush.

25. TYPE_1	BORROW PIT	26. TYPE_2	
Dominant type		Subordinate type	
General Types of Materials Ava	ilable Enter data in Type_	_2 only if two types of material si	te available
QUARRY	Bedrock sources requiring blasting		
BORROW PIT	Soils or soft bedrock (ripp	able), above water table	
BAILING	Requires production below	v the water table	
RIVER BAR	Sand/gravel bars in active	channels	
27. OB_CLASS_1	<3 FT.	28. OB_CLASS_2	OTHER
New Site or expansion Area		Existing Pit (Spoi	1)
A site may have both. Data shou	ld be based on actual subsurfa	ce exploration, otherwise unknow	vn.
Estimated average depth over th	e area.		
NONE	3 TO 6 FT.	UNKNOWN	1
<3 FT.	>6 FT.	OTHER	
29. OB_TYPE_1		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	

31. MAT_TYPE_1	COLLUVIAL	32. MAT_TYPE_2
Dominant type		Subordinate type
BEDROCK WEATHER. BEDROCK FLUVIAL GLACIAL	Bedrock sources requiring Bedrock sources requiring Water deposited sand and Glacial till	g blasting g ripping gravel, includes glaciofluvial
COLLUVIAL	Talus slopes, etc.	
EOLIAN SILT	Sand Dunes, etc. Silt deposits, loess, fluvial	l, etc.
33. PERMAFROST_1	DETECTED IN	N NO TEST HOLES OR PITS
New Site or Expansion Area		
34. PERMAFROST_2		
Existing Site		
DETECTED IN MOST TEST I	HOLES	
DETECTED IN SOME TEST H	HOLES	
DETECTED IN IMMEDIATE	VICINITY	
DETECTED IN NO TEST HO	LES	
DATA OUTDATED		
UNKNOWN		
OTHER		
35. GROUNDWATER		
No water table was noted i	in test holes advanced to 3	31 ft. below the ground surface during January, 1963.

36. LITHOLOGY_1	COLLUVIAL	37. LIT	HOLOGY_2				
Dominant type		_	Subordinate type				
IGNEOU	IS ROCK	Undifferentiated Igneous Rocks					
GRANITIC		Granite/Monzonite/Granodiorite					
DIORITE	E/GABBRO	Diorite/Gabbro					
BASALT		Dark colored fine-grained	d Igneous Rocks				
GREENS	STONE	Altered Volcanic Rocks	<i>w</i> /green tint				
METAM	ORPHIC ROCK	Undifferentiated Metamo	rphic Rocks				
SCHIST/	PHYLLITE	Includes rocks ranging from	om slate to schist				
GNEISS		Includes hard schistose ro	ocks				
MARBLI	E						
CATACI	LASTIC	Incl. Valdez Formation R	locks, Kenai Penn.				
MÉLANO	GE	Incl. McHugh Formation	Rocks, Kenai Penn.				
SEDIME	NTARY ROCK	Undifferentiated Sedimer	ntary Rocks				
CONGLO	OMERATE						
SANDST	ONE	Includes greywacke, etc.					
SHALE/N	MUDSTONE						
LIMEST	ONE						
FLUVIA	L	River and stream deposits (floodplain), includes outwash.					
ALLUVI	AL	Alluvial / Debris Fan deposits					
GLACIO	FLUVIAL	Eskers, kames, etc.					
GLACIA	L	Till					
COLLUV	/IAL	Talus, etc.					
EOLIAN		Sand Dunes, etc.					
SILT		Loess, fluvial silts, etc.					
OTHER		Explain in Section 44.					
38. MATERIAL CLA	ASSIFICATION						
ASTM Classification, g	generally they should range fro	m coarse to fine.					
38a.	38c.	38e.	38g				
38b.	38d.	38f.	38h.				

39. COBBLES_AND_BOULDERS Test Boring Callout / ASTM Classificati	ion, either a. or b. and c. (Can use ranges i.e. 0 to 20	0)						
39a. CONTAINS								
39b. Est. % by VOL.	30 to 60	(Est. From Visua						
39c. MAX. SIZE (in.)	36	(Observed Size)						
40. AGG_TEST_RESULTS Year of test or report- Test result / Year	of test or report- Test Results							
40a. SG APP COARSE 40b. SG APP FINE 40c. ABSORPTION CRSE 40d. ABSORPTION FINE 40e. NORDIC ABRASION 40f. L.A. ABRASION 40g. DEGRADATION (T-13) 40h. NASO4 LOSS COARSE 40i. NASO4 LOSS FINE								
41. POTENTIAL_USABILITY	TYPES A AND B MATERIAL	AVAILABLE						
Best known potential use of the material	, based on records, exploration and laboratory data.							
CONCRETE AGGREGATE PRODUCEDThe site has produced concrete aggregatePAVING AGGREGATE PRODUCEDThe site has produced paving aggregateCRUSHED PRODUCTS PRODUCEDBase, Surface Coarse, Subbase, etc. has been produced.TYPE A AND B MATERIAL AVAILABLE0 to 10 percent passing 200TYPE C AVAILABLECompactable materialTYPE C NOT AVAILABLEUncompactable material (Lower Kuskokwim and Yukon River, etc.)UNKNOWNExplain in Section 44.								
42. SPECIAL_PROBLEMS								
Special problems encountered or anticip	ated with use of the material, based on records, exp	ploration and laboratory data.						
ORGANIC CONTENTThe material is very difficult to compact.HIGHLY WEATHERED GRAVELThe gravel is highly weathered and may break down when handled.BREAKS DOWN UNDER USEMaterial breaks down on grade.SENSITIVE TO WATER CONTENTMaterial is sensitive to water content, i.e some glacial tills, soft bedrock.VARIABLE MATERIALDeposit contains mixture of suitable and unsuitable material.POSSIBLE CONTAMINATIONSite may be contaminated by petroleum products or hazardous materials.CONTAINS ASBESTOSSite contains naturally occurring asbestos.POTENTIAL ASBESTOSSite in area where naturally occurring asbestos is mapped.ACID ROCK DRAINAGESite contains rock susceptible to producing acid rock drainage.OTHERExplain in Section 44, Notes.								

43. **RIPRAP**

PREVIOUS PRODUCTION

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

PREVIOUS PRODUCTION POSSIBLE FURTHER INVESTIGATION NEEDED NOT POSSIBLE UNKNOWN OTHER There is a record of production. The site is a bedrock quarry containing hard rock The site has soft rock or soil.

Explain in Section 44, Notes.

44. NOTES

Note number of item being discussed.

28/30. Scattered spoil piles were noted in the pit.

36. Rock is typically 0.5' to 1.0' in diameter, blocky, basalt, some greenstone alteration, hard and slightly weathered to fresh.

ALASKA DEPATIMENT OF TRANSPORTATION SPUBLIC FACILITIES MATERIAL SITE DATA COLLECTION FORM

Collected by: GRAHEK

Date: 790484

I. GENERAL SITE DATA	(CODES
I. GENERAL SITE DATA 1. Material Site No.: SZ-Z-OG8-Z 2. Site Name: DS-PARKS4-/82,7 3. Community: CANTASELL-MODDY 3. Community: CANTASELL-MODDY 4. Owner/Agency: ALM 5. Permit No.: C-O334430 6. Permit Type: DZB77N 7. Expiration Date: DO 8. Contact: DO 9. Lat/Long: SZ8707N 2. Acreage: C 11. Legal Description: SEC/7777758740FM 12. Acreage: C 13. Reference Data: D/0206 14. Maps & Photos: D/20780 #066 15. Special Considerations: D 16. History: D 17. Pemarke: D	S. PERMIT TYPE 00 None CEADES 11 Grant 02 Rt. of Way Grant Decide 11 Daned 12 Quit Claim Deed Permits 13 Darmit 14 Dury 15 Prospect Parmit 26 Rt. of Nay Grant Permits 21 Public Claim Deed Permits 23 FUP 24 STUP 25 Prespect Parmit 26 Rt. of Nay Permit 27 Rt. of May Permit 28 Rt. of Nay Permit 29 Rt. of Nay Permit 20 States 21 Dur 22 FUP 23 FUP 24 Stup 25 Rt. of Nay Permit 26 Stup 27 Rt. of Nay Permit 28 Rt. of Nay Permit 29 Rt. of Nay Permit 20 Dees
17. Remarks:	02 Logation map 03 Site plat 04 Vart. air photos 05 Obl. air photos 05 Obl. air photos 09 Other (Remarks) 15. SPECIAL CONSIDERATIONS 00 None 01 Pit obligated 02 Royalty Payments 03 Frond of Gue (incl. yr.) 04 Stripermental Restr. 05 Environmental Restr.
19. Soll Class: A A C T 20. Test Values:	07 Arthamlogical Site 06 Paleontological Site 09 Quantity Best: (Newarks) 99 Other (Newarks)
III. USE DATA	unan,,,,,,, _, _,
22. Present Status:	
24. Quantities - Indicated:	ate:
Removed: 1717101CIX cubic yards De	
25. Remarks:	

MATERIAL SITE DATA COLLECTION FORM
Material Site No.: 52-2-068-2 Date: 190484
Collected by: GRAHEK
ME. SURFACE SITE DATA
26. Date: 230683 27. Investigation: 01 28. Drainage: C
29. Geomorphic Description: H/LL
30. Vegetation: 000 0 \$ % 0 0 8 %
33. Rock Outcrops: $Vist \leq 34$. Water Bodies: OO 35. Access: OV
36. Boundary Markers: 00 37. Utility Corridors: 00
38. Site Improvements: PITEHR
39. Remarks: STEEP TALUS SLOPE
IZET FIRI WILLIGI-IZIT FRIZIGIAICRI EDELET TITTT
CODES 30. VEGETATION 30. VEGETATION (const.'d) 33. ROX OUTCHOPS 35. ACCESS 37. UTILITY CONSIDERS
27. s 41. DMYRSTIGATION COT Cottonwood NT Suall Tree (≤ 5" #) s 10'-25' Ol Adj to unimprodary grl rd NA Water 28. Backhoe ASP Aspan LT Lg Tree (≥'-30" #) D 50'-100' Ol Adj to secondary grl rd The Sale France
10. Wheel-mount Auger Wil Hillew species HT Ruge Tree (>30" #) B >100" 04 Adj to primery pod pd PT Petroleoum 70. Track-mount Auger Alb Alder species t of size covered 5 of size covered 05 Ances by Witer PN Sever PD Portable Drill HEP White Spruce t of size covered 59 Other (Manarka) RR Ballroad
AR Astial Becon. SEP Ellack Sprice 23 Other (Remarks) SH Saimic Survey HEN Hemlook 31. TOPOGRAPHY 34. WATER RODIES 35. REMARKARY HENDERS CD Conductivity Survey HEN Hemlook 75.7 Flat and lavel 00 Hone 35. REMARKARY HENDERS
NV Resistivity Survey Dist BOD Rolling 01 River Dist River River Dist River
03 Part coverage, randos 03D Las ground cover LL Cliffice 04 Anternit. Stream 70 Amber 921. Scales 03 Part coverage, spacific 205 Song sockes, etc. 4 of site, each Category 05 Lake 17 Hinn Fipe 307 Danding Mampe 04 High-danaity 72 Lavest. 422 Other tubinown) 05 Pane 307 Witness Post 307 Socket 308 Sock Waste Area
D5 Special Survey D None 32. Departs O8 Bog/Sweep 38. Brunh Line CAT Locked Gate on screes 1 Scittored 32. Departs O9 North Line 24 Londmark (Remarks) TTL Trailines 2 Low (> 10' sep) C0 Construct and 10' State 10'
24. Description 3 Medarata CFR Const. Association SI Other (Demarks) Main Matching water P Poor - standing water 4 High (<3' sep)
t of site, each category t of site openpied
Y. SUBSURFACE SITE DATA
40. Date: 41. Investigation: 42. Drainage:
43. Water Table: 00 44. Permafrost: 0 45. Overburden: 0 An
46. Soil Description:
49. Quantity Estimate:
CODES 45. GVENDIMMEN 46. SOIL DESCRIPTION METHOD OF ANALYSIS 42. DRAINAGE 5011 Type (see Itag 46) A Gravel 0 Undetermined A Gravel 0 A Gravel
P Poor - fine-grn, saturated Mpisture (see item 46) C Silt 2 Damp C Soll auger P Poor - fine-grn, saturated Meghod of Analysia D Clay 3 Free Hoisture 9 Soll probe F Fair Meghod of Analysia D Clay 3 Free Hoisture 9 Soll probe G Good - coarse-grn, well-drn E Aab E Prev, rpts.
48. SUANTITY ESTIMATE P Organic Method of Analysis 2 Other 44. PERMATROST Cubic Yards (Visual Est.) G Bedrook Cubic Yards (Visual Est.) C Debrook Y Yes Soil Description, primary product 2 Other T
P Probable Nethod of W Sis



GENERAL MATERIALS SITES INFORMATION

Two sources of riprap were investigated for potential use on this project. Material Site (M.S.) 52-2-046-2 and MS 52-2-068-2 are both located near Mile 217 on the George Parks Highway. This report contains the results of the field investigation and the results of laboratory tests performed on samples taken from the sites.

Both of the sites have been used for construction projects in the past. The purpose of this field investigation was to determine whether materials suitable for use on this project remain in the sites. Test trenches were dug with a backhoe, some of the excavated rock fragments were measured to determine size ranges, and a visual estimate was made of the percentage of various-size fragments in the excavated material. The measurements and estimates are shown on the Plan View with Test Trench Logs for each site.

The contractor should be required to determine for himself which areas he intends to mine, the type of equipment needed, and the amount of effort required to produce a sufficient quantity of specified material for this project. He should be required to prepare a mining plan for each area he intends to mine. The mining plan should be approved by the Resident Engineer and by regional materials personnel before any mining takes place.

MS 52-2-068-2

LOCATION AND ACCESS

M.S. 52-2-068-2 lies 30 to 40 feet east of the R.O.W. on the east side of the George Parks Highway at Mile 217.1. Existing access is south of the site and crosses privately-owned land. The Fairbanks-Anchorage Electrical Intertie transmission lines cross the west half of the site with a support tower located in the central part of the site. The site is partially screened from the highway by a road cut backslope.

DESCRIPTION

Material in this site generally consists of basalt fragments ranging in size from less than one 1 inch to more than 6 feet in diameter. The material occurs as a talus cone at the foot of Panorama Mountain. The larger sizes were observed to be generally concentrated on the surface of the ground and at the toe of the slopes.

Class II riprap was obtained from this site for use in the reconstruction of the George Parks Highway in the early 1970's. It appears that selective excavation was necessary to obtain the specified material.

CLEARING AND STRIPPING

Most of the talus cone and some of the excavated areas are unvegetated. A fairly large disturbed area in the east corner of the site has a growth of 6-foot high alders between unvegetated dozer cuts. Grass grows in the areas between debris piles. A large draw in the northwest end of the site has 4 to 12-inch diameter spruce trees spaced 10 to 50 feet apart. Dense alders to 6 feet high grow between the spruce trees. No silt overburden was noted in the test trenches.

WATER TABLE

The water table was not found in any of the test trenches, the deepest of which reached 9 feet below the ground surface.

FROZEN CONDITIONS

In early June 1988, frozen material was found in 2 of the 4 test trenches dug in this site. It was noted at depths of 4 feet and 8 feet below the ground surface in test trenches 88-4 and 88-3, respectively. The frozen zone of test trench 88-4, which bottomed at a depth of 8 feet still in frozen material, was difficult to dig with the backhoe. Rock fragments in the unfrozen zones were loosely-arranged and the test trench walls tended to collapse.

LAND STATUS

This site is located on land owned by AHTNA, Incorporated, a native regional corporation. The United States Bureau of Land Management issued

the State of Alaska a Right-Of-Way grant, F-026067, on July 9, 1962 permitting use of the site as a material source. The Grant is currently administered by AHTNA, Inc.

QUALITY AND MATERIALS

Results of laboratory testing of samples taken from this site generally indicate that the material meets the requirements for riprap. Processing will be required to meet the gradation requirements. The average specific gravity (coarse) of 4 rock samples taken from this site was found to be 3.00, or 187.3 pounds per cubic foot. Accordingly, the following relationships between rock sizes and weights were calculated.

Weight (Pounds) 400 200	Approx. Size* (inches)
400	15.5
200	12.3
25	6.1

*Size is determined by averaging the nominal length, width, and thickness of an angular or blocky rock fragment.

Visual estimates of the rock sizes found in the test trenches are shown on the Plan View with Test Trench Logs.

MINING PLAN GUIDELINES

Clearing debris should be placed on the periphery of the site to maximize the area available for excavation. Backslopes should be left no steeper than $1\frac{1}{2}$ horizontal to 1 vertical for stability.

A 50-foot, or larger, square island of undisturbed ground should be maintained around the base of the transmission line tower. Guidelines for the configuration of the island can be found in the Alaska DOT&PF Utilities Manual.

The site should be left in a neat and orderly condition, sloped to drain, with suitable access for future use.

STATE OF ALASKA - NORTHERN REGION DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOILS TESTING REPORT

PROJECT NAME: P PROJECT #:] SOURCE: P SANPLED BY: G	PARKS HIGHWA [-014-3(6)/6 4.5.52-2-068 5. BRAZO	Y EROSION COB 4249 -2	ITROL	10 ISTINA VI	31 VA 1			
TEST HOLE NO. DEPTH (FEET) STATION (LOCATION)	88-1 2-4	Near 88-1 GRAB	88-3 3-5	88-4 1-3				
OFFSET (FEET) LAB NG. DATE SANPLED	88-1025 6-9-88	88-1026 6-10-88	88-1027 6-10-88	88-1028 6-10-88				
Est. +10" (boulders); Est. 10"-3"(cobbles); +3"								
3" 2" Gravel 1" 3/4" P P 1/2" E A 3/8"								
R S #4 C S B I #10 N N Sand #40 T G #50 #100	 		 	 				
Silt - Clay \$200	 	 				 		
Clay .02mm Size .005mm	i i i i	 	 	 	 		 	
LIQUID LINIT PLASTIC INDEX CLASSIFICATION SOIL DESCRIPTION	 Basalt Br	 Basalt Bx	 Basalt Bx	 Basalt Bx				;
SP.GR. (FINE) SP.GR. (COARSE) MAX DRY DENSITY OPTINUM NOISTURE	 3.01 	 3.02 	 2.98 	 3.00 				
L.A. ABRASION DEGRADATION FACTOR SODIUM SULF. (CRSE) SODIUM SULF. (FINE) ORGANICS	: 9 41 	; 9 ; 81 ; 0.4 ;	10 31	i 10 : 41 : :				
	!			{	¦	 		l

REMARKS

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MATERIAL SOURCE NO. 22-337-63 (Pit "0"

LOCATION AND ACCESS

Set .

This material site is located 150 ft. right of "L" Station 361+87.9 and is presently being utilized as a material source. The toe of the talus slope is in the right ditch and material is being removed from this slope. No access road is necessary.

FIELD DESCRIPTION

This material site occupies a large lobe-shaped feature of angular rock fragments derived from the steep mountainside immediately to the northeast. Fragments range in size from coarse sand to large blocks measuring 5 to 20 ft. in diameter. Some of these large blocks lie exposed on the surface while others are contained within the deposit. These large blocks, when drilled and blasted, will provide material for riprap. The face of this site stands at an angle of approximately 35°; while the upper surface has a lower angle of repose of about 10°.

CLEARING

Vegetation on this talus slope above the presently worked site consists of 2 to 3 in. diameter alders on 15 to 20 ft. centers and scattered 6 in. diameter white spruce trees. Moss and stunted willows cover that part of the site which has not been stripped.

STRIPPING

Overburden is thin in the unstripped part of the pit and consists of up to 1.0 ft. of silty material.

FROST CONDITIONS

No frozen material was encountered in any of the test holes in this site. Frozen material will be found beneath undisturbed thick organic cover.

WATER TABLE

No water was encountered in any of the test holes in this site.

DRAINAGE

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Surface and subsurface drainage in this site are excellent.

-88-

Existing pit Total pit Waste area Total pit plus Waste area

(

0.7 Acres 5.1 Acres 2.1 Acres 7.2 Acres

QUALITY

The granular talus material of this site is reasonably uniform in distribution vertically and horizontally. The quality based on samples taken is A-1-a. This material is suitable for Type I select borrow and with appropriate processing will provide select Type II borrow.

QUANTITIES

Stripping (average horizon 1.0 ft.)

450 x 500 x 1.0		Ŧ	8,400	cu.	yds.
21	•				

Less stripped area:

$\frac{100 \times 300 \times 1.0}{27}$		=	1,100 cu. yds.
Total stripping		=	7,300 cu. yds.

Borrow (average horizon 40.0 ft.)

<u>450 x 500 x 40</u> 27	= 333,000 cu. yds.
Less slope correction	= 10,000 cu. yds,
Total borrow	= 323,000 cu. yds.

Page 2 of 2 pages

STATE OF ALASKA DEPARTMENT OF HIGHWAYS DISTRICT MATERIALS LABORATORY FAIRBANKS, ALASKA

REPORT OF TESTING

PROL	J.,	NAM	E <u>Cantwel</u>	1-McKinley		PROJ.	NO.	F-052-2(1)
PIT	NO		*0*	MATERIALS	CODE NO)22_	337-1	£3
LOC!	TI	ON	Sta. 361+8	7.9. 150 ft.	right S	AMPLED	8Y 1	ivingston

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Field No.	0-1	9-2				
Lab No.	781	179				
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The data shown herewith was compiled from the samples taken as noted and constitutes the best information available. It is for informational purposes only, and is not guaranteed.

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-91-

Page 1 of 2 pages

STATE OF MANY

P SAMPLE (

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Source of material	Station 363+00, 5	0! R.					
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Submitted by				• •		4-19-19-19-19-19-19-19-19-19-19-19-19-19-	
identification marks				in the side of the set			
Location used or to be	und finites 11. Menne			(i)			
Examined for		en in engele					

TEST RESULTS

Stoneburg Environment Aller										
As Submitted										
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Microcostalline Baselt

this sample is suitable for rigreg. The material s represented by

· Pre-Construction Sample

R. D. Finney, CME (2) A. V. Balvin, Dist. Geo. (2) File

FOR DEPOSIANTION CHIST







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522-068-2292









































