

#### INTRODUCTION

This inventory of existing gravel (borrow) pits along major Yukon highways and around some specific communities was prepared in March-July, 1977 by Archer, Cathro & Associates Ltd. of Whitehorse under DINA contract Y6 LA 15 dated February 17, 1977. The bulk of the inventory was prepared by Michael P. Phillips who researched available information in government files within Yukon and drove all the highways covered in this inventory. Project supervisor was Mr. R.S. Friesen, Research and Special Projects Officer, Northern Operations Branch, Yukon Region, DINA. The inventory comprises 2,474 borrow pits and test sites.

The preparation of the inventory was stimulated by (1) the lack of systematic information on existing locations of road-building material and concrete aggregate, and (2) a desire to establish a uniform data-base that could be maintained and up-dated by individual Resource Management Officers (RNO's) throughout the territory.

The inventory consists of individual data pages prepared for each borrow pit or test site within each Resource Management Area (R.M. Area). Individual pits or sites are given an identification number and are numbered consecutively on each highway, commencing at the R.M. Area boundary or highway junction and increasing in the same direction as the highway mileage posts (MP). The format for the individual pages was designed after studying the information already contained in government files and holding discussions with the various government agencies involved on the type of information that should be collected and recorded by RMO's.

The study comprises office and field investigations of all Yukon highways except the North and South Canol Roads, Nahanni Range (Cantung) Road, Aishihik Road beyond Otter Falls, Snag Road, the Dempster Highway beyond

Eagle River bridge (MP 236) and recreation roads such as Kusawa Lake Road, Mush Lake Road, Freegold Road, Nansen Road, Ethel Lake Road, Mayo Lake Road, and Tatchun Lake-Frenchman Lake Road. Gravel pits at each community except Whitehorse were also inventoried.

An example inventory page covering borrow site 65 at MP 1022.2 on the Alaska Highway (Kluane R.M. Area) is shown on the following pages, with a simple surface sketch plan copied from DPW files. This is an example of a site that has been studied in more detail and has a great deal of data included on the page. The majority of the sites in Yukon have received no study at all.

The standard 84" x 11 inch page size and three-ring binder format has been adopted because:

- (a) it is inexpensive to duplicate;
- (b) it can be easily revised by adding new pages or substituting updated pages for old pages;
- (c) information gaps are visually obvious to senior Whitehorse

  personnel and to RMO's who will be responsible for updating

  the inventory pages within their respective management areas.

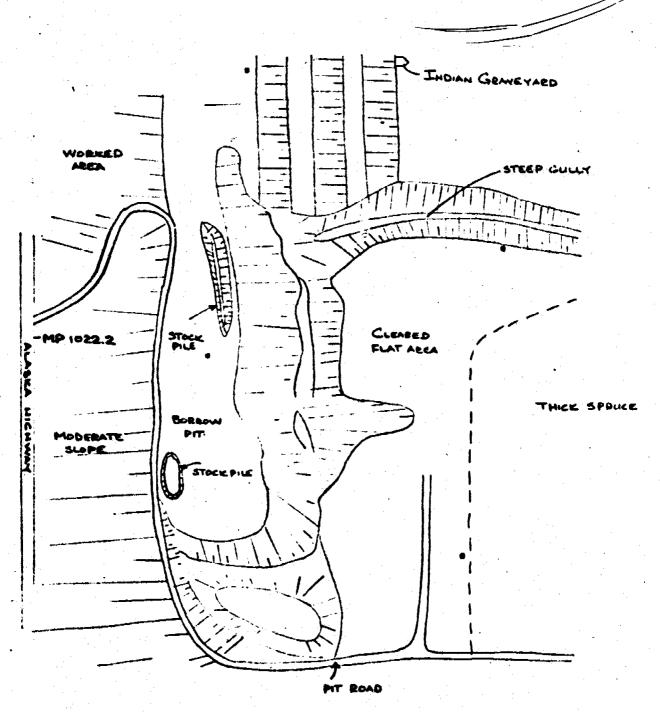
In addition, new borrow pits or test sites can easily be inserted in the numbering system by filling out a new page and designating it with an immediate number (e.g. 65A or 65.1). Additional information on a site, such as a drill plan, legal survey or sketch of a gravel pit reserve, or a photograph can be inserted behind the appropriate page as it becomes available or is revised.

Accurate site locations are plotted on strip topographic maps along the highway alignments, which are filed in a pocket at the back of this book.

Wherever possible, the National Topographic System 1:50,000 scale series has been used for base maps. However, the Campbell Highway between Carmacks and Little Salmon Lake is not plotted on the published 1:50,000 scale maps and test sites for that stretch of road have been plotted on a simplified 1:50,000 scale line map. In the few instances where 1:50,000 coverage is unavailable, 1:250,000 scale maps were enlarged by hand to provide a crude 1:50,000 scale map.

The type of information required in each portion of the inventory page is discussed on the following pages.

YUKON GRAVEL INVENTORY L.M. Area: Kluane Borrow or Test Site No: (A) 0.2 mi Location: Highway No: 1 Side RX L Distance: 1022.2 Highway Name: Excellent KP [ Alaska Access Tenure: Gravel Pit Reserve Appl Current Status: Active (B) Plan Yes X May/77 Date: Crush Amount: ± 750 Cu. Yds. STOCKPILE Description: Moderate Sidehill Tree Cover: Thick Spruce, Popl SITE (C) Material: Gravel Deposit: TYPE Past Use: Date: Borrow - Surfacing HISTORY Performance Rating: Amount Used: Remarks: Pitted 区 Augered Not Indicated Trenched TEST SUMMARY (D) G Sketch (Plan) Lab. Test Crushed: Date: Sites Sampled: 4 Pits July/69 Depth Max. Min. SUBSURFACE Average (E) TEST RESULTS Overburden 11 0 154 14' Material Quantity (CuYds)Estimated Proven Some calcite coating gravel. LAB. TEST RESULTS (F) 17,3 Los Angeles Abrasion % Loss: Crush Count: Other Tests: Petrographic Analysis - Quartzite - 50%; Granite - 20%; Limestone - 15%; Porphyry - 5%; Others - 10% Grain Size Analysis Z Passing Sieve Size Hole No. 3/4" 3/8" Depth 1-1/2" No. 4 No. 10 No. 40 No. 200 LL PI Av.-4 Pits 88 66 50 39 31 14 3 NP Crush-1" 1 Pit 100 4 85 55 41 30 14 NP Crush-1 Pik 3/4" 100 98 69 46 32 15 3 NP Environmental: Indian Grave, Scenic Viewpoint Potential (G) Conflicts Land Use: REFERENCE: DPW Materials Inventory; Alaska Highway Technical Data; Federal Lands Office



SITE NO 65 KLUANE R.M.A.

TEST AREA

ALASKA HICHWAY MP 1022 2 RHS

NO SCALE

#### (A) GEOGRAPHIC LOCATION

#### (1) Resource Management Area (R.M. Area)

Area names and boundaries were obtained from a 1:500,000 scale wall plan in the Yukon Forest Service Whitehorse office. Area boundaries are illustrated on individual 1:50,000 scale gravel inventory plans and the 1:1,000,000 scale index map.

#### (2) Borrow or Test Site Number

called gravel pits by the layman. Engineering terminology defines gravel as material with rounded rock fragments between 3/8" and 3" in diameter and excludes sand or clay. Borrow, as defined in the American Institute of Geology's Glossary of Geology is earth material (sand, gravel) taken from one location to be used for fill in another location. This definition does not include weathered and fresh bedrock which is often used in Yukon where glacial or fluvial deposits are not developed (e.g. North Dempster and Boundary Highways). Bedrock excavations should correctly be called quarries but in this inventory, borrow refers to all excavations made for road building or maintenance and includes both overburden and bedrock material.

A test site is a locality where DPW has conducted materials investigations and testing.

Pits are numbered in sequence, starting at unity for each R.M. Area, and borrow and test sites are distinguished by separate map symbols.

Borrow sites can be differentiated from test sites on the inventory

sheets by the word borrow after the heading "Past Use" in the Site Data section.

New pits added to the inventory should be identified with an intermediate letter or number (e.g. 65A or 65.1) following the lowest adjacent site number.

#### (3) Location

All sites are located by road mileage (MP) because only the Alaska and Klondike Highways have been converted to metric distance markers to date. Most published NTS maps show occasional MP locations and mileage locations were determined in the field from MP markers and bridge signs. Space has been provided to add kilometre post locations (KP) for each site as metrication is completed on each highway.

#### (4) Highway Number and Name

These were taken from the official Yukon Territorial Government road map. Roads with no official name have been called by the most common local name. The Boundary Road is often called the Taylor Highway.

#### (5) Side

R and L refer to the right and left sides of the highway when facing in the direction of increasing road mileage.

#### (6) Distance

This is the distance of the borrow or pit from the road right-of-way.

Most sites are beside the road and are designated as adjacent.

### (7) Access

This refers to the condition of the borrow access road. If the space is left blank it means that access has been removed or destroyed by regrowth of vegetation.

### (B) TENURE & STATUS

#### (1) Tenure

Most borrow sites occur on unreserved Crown land but a few gravel pits have been developed under a Gravel Pit Reserve application. A legal.

description and/or plan of the reserve is attached to the pertinent inventory page if available. In a few cases, a gravel reserve plan is available even though there is no record that an application for a reserve has been made.

# (2) Current Status

Sites are classed as either active or inactive. Active sites on major highways and roads are usually used to provide crushed surfacing material while sites on secondary highways and roads are usually used to provide naturally occurring surfacing material. Inactive sites include both construction and crushing borrows.

#### (C) SITE DATA

### (1) Stockpile

(a) Date - This refers to the month and year when the stockpile was inventoried by Archer, Cathro.

(b) Amount - The amount of stockpile is a rough estimate in cubic yards. As crushed material is being continually withdrawn and/or replaced during the summer, the stockpile should be updated annually by the area RMO.

#### (2) Site

- (a) <u>Description</u> This refers to the topography in the immediate site area which is categorized as either gentle, moderate or steep.
- (b) Tree Cover The density surrounding the site is given as either light, moderate or heavy with the first tree-type listed being the most common.

# (3) <u>Type</u>

- (a) Material This is a visual description rather than a technical or engineering description obtained from DPW records.
- (b) <u>Deposit</u> Generally loosely classified as glacial (ice moved) or fluvial (water moved) in origin.

### (4) History

- (a) Past Use The word borrow is inserted in this heading to differentiate a test site from a borrow site. The word crusher site or surfacing is added if it appears material was used for stockpiling crush.
- (b) Date This refers to the last date the borrow was used and has usually been obtained from DPW records.
- (c) <u>Performance Rating</u> This is a value judgment made by DPW personnel of the suitability of crushed material for road surfacing.
- (d) Amount Used This refers to total quantity of material used from a borrow site.

(e) Remarks - Any additional comments by DPW testing personnel are given under this heading.

#### (D) TEST SUMMARY

This section briefly summarizes information stored in DPW records.

Files on individual sites are often incomplete.

#### (E) SUBSURFACE TEST RESULTS

Information in this section has been taken from DPW hole and pit logs. Actual depth of aggregate in the deposit will exceed this unless bedrock is indicated. Material depth is the hole or pit depth less the overburden depth.

#### (F) LABOPATORY TEST RESULTS

#### (1) Los Angeles Abrasion % Loss

This is a test to determine the wearing characteristics of pit material.

A sized sample is placed in a drum with steel balls and tumbled for a specified time and the loss in size is expressed as a percentage of the original.

#### (2) Crush Count

A sample with rock fragments above 1/4" diameter is passed through a crusher. Fragments with at least one fresh fracture surface are noted and expressed as a percentage of the original material.

#### (3) Petrographic Analysis

This is a catalogue of the rock types represented in a sample of 1/4" diameter or larger framents to determine if any deleterious material is present.

#### (4) Grain Size Analysis

This is a summary of tests performed at a materials testing laboratory. The sampled material, called pitrum, is sieved and the percentage of grain sizes is recorded. Material finer than the No. 200 sieve size is either silt or clay and is determined by liquid limit (LL) and plastic index (PI) tests. NP means the material has no plasticity. Tested material can include both crushed and uncrushed samples.

#### (C) POTENTIAL CONFLICTS

This heading was rarely completed in this inventory. In general, large pits near the road detract from the aesthetic appearance of the highway and the recent policy of obtaining borrow beyond sight of the road should be continued.

#### (H) REFERENCE

### (1) DPW Materials Inventory

Results on borrow and test sites are available for the Alaska Highway, Haines Road and Campbell Highway between Carmacks and Faro junction. Most of the information is on the Alaska Highway.

For the Alaska Highway, a five volume set of books summarizes results which have been indexed by mileage on an 8½" x 11" form similar to that used in this inventory. Separate pages with test sample results, drill or pit hole logs and plan or sketch are sometimes included with this form but only drill hole or pit logs are available in some cases.

Large scale, detailed plans have been prepared for sites where many holes have been drilled or pits have been dug. These show hole or pit locations and elevations, topographic and cultural features, as well as cross sections through holes or pits. A simplified version of these plans has been included in this inventory.

#### (2) DPW Legal File

This  $8\frac{1}{2}$ " x 11" file has plans of gravel pit reserves. A legal description of reserve is sometimes attached to the plan.

#### (3) Federal Lands Office

A separate file for each Gravel Pit Reserve is kept at the Federal Lands
Office in the YTG Building. Mr. W. Ward summarized these files in table
form in February, 1977 according to Resource Management Area.

#### (4) YTG Department of Highways

This department provided an incomplete tabular list of all known active borrow sites on Yukon highways except the Boundary Road, Dempster Highway and North and South Canol Roads.

R.M. Area:	Old Crow		200.		Bor	row or	Test Si	te No:	1	
Location: MP 189.9	Highw KP	ay No: II Highway N	] ime: [	Demps	Sid	e R		Distance Access	Adja Non	
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Grain Size Ana	lysis	<b>7</b> P	assing	Sieve	Size					
Hole No. De	epth	1-1/2"	3/4"	3/8"	No. 4	No. 10	No. 40	No. 200	LL	PI
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Other Tests:												
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Hole No. De	pth	1-1/2"	3/4"	3/8"	No. 4	No.	10	No. 40	No. 20	00	LL	PI
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R.M. Area:	Old Crow				Box	row or	Test Si	te No:	10 '	
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Other Tests:										
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Potential Conflicts	Environme Land Use:									
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R.M. Area	Old Crow	Borrow or Test S	ite No: 11
Location: MP 199.0	Highway No: 1	Side R LK	Distance: Adjacent
Tenure: Plan	Yes No Current	itatus: Inactive	
STOCKPILE SITE TYPE HISTORY	Date: Description: Moderate Slope Material: Bedrock - Sandstone Past Use: Borrow Performance Rating: Remarks:		
TEST SUMMARY	Augered Pitted  Lab. Test Sketch (Plan)  Date: Sires Sample	Trenched Crushed:	Not Indicated   Not Indicated
SUBSURFACE TEST RESULTS	Depth Max. Overburden Material	Min.	Average
•	Quantity:(CuYds)Estimated Remarks:	Proven	
LAB. TEST RES	ULTS Los Angeles Abrasion % Lo	is:	Crush Count:
Other Tests:  Grain Size Ana	T. Beerfee Charles		
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	Environmental: Land Use:		
REFERENCE:			

R.M. Area: O	ld Crow				Во	rrow (	or Te	st Sit	e No:	12	
Location: MP 203.3		ay No: II Highway Na		Dempst		de R		_	istan	Go Go	
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HISTORY	Performan Remarks:	Born ce Rating						unt Vs	ed:		
TEST SUMMARY	Augered Lab. Tes Date:			(Plan	n) 🛘		ched:		□ No	t Indica	ted 🗆
SUBSURFACE TEST RESULTS	Depth Overburde Material	n	Max.			Min.			Av	erage	
	Quantity: Remarks:	(Cu <b>Y</b> ds <b>)E</b> st	imated				Prove	en			
LAB. TEST RES	SULTS L	os Angele:	s Abras	ion %	Loss:				Crush	Count:	
Other Tests:											
Grain Size Ana	lysis	Z P:	ssing	Sieve	Size					-	
Hole No. De	pth	1-1/2**	3/4" 3	/8"	No. 4	No.	10 N	io.40	lo. 200	LL	PI
Potential Conflicts	Environme Land Use:										
REFERENCE:			• • • • • • • • • • • • • • • • • • •						•		

R.M. Area: (	Old Crow	<u> </u>			Во	rrow or	Test S	ite No:	13	
Location: MP 207.3	KP Highw	ay No: 11 Highway N		Dempster	<u>S1</u>	de R	]LE]	Distance Access	None	
Tenure: Plan	Yes	No [	]	Current	stat	us: Ina	ctive	·		
STOCKPILE SITE TYPE HISTORY	Date: Descripti Material: Past Use: Performar Remarks:	Bed	34	e andstone					vy Spru	Cu.Yds.
TEST SUMMARY	Augered Lab. Tes	<u> </u>	Sketch	(Plan) es Sampl	□ □	Trench		O Not	Indica	ited 🗆
SUBSURFACE TEST RESULTS	Depth Overburde Material		Max.			Min.		Ave	rage	
•	Quantity: Remarks:	(CuYds)Est	imated			Pr	oven			
LAB. TEST RES	SULTS L	os Angele	s Abras	ion % Lo	98:			Crush C	ount:	
Other Tests:					_					
Grain Size Ana				Sieve Si		·		L		
Hole No. De	pth		3/4" 3.	/8" No	4	No. 10	No. 40	No.200	LL	PI
Potential Conflicts	Environme Land Mee	The state of the s								
REFERENCE:									and the second s	

TUKON GRAVEL INVENTORY Borrow or Test Site No: R.M. Area: Old Crow Distance: 0.1 mi Highway No: 11 Side R L x Location: Highway Name: Dempster MP 208 Access None Tenure: Current Status: Inactive No Plan Yes Date: Amount: Cu. Yds. STOCKPILE Tree Cover: Heavy Spruce Description: Flat SITE Material: Bedrock - Sandstone Deposit: TYPE Past Use: Borrow Date: HISTORY Performance Rating: Amount Used: Remarks: □ Trenched Not Indicated Pitted Augered TEST SUMMARY Crushed: Lab. Test Sketch (Plan) Date: Sites Sampled: Max. <u>Average</u> Depth Min. SUBSURFACE TEST RESULTS Overburden Material Quantity:(CuYds)Estimated Proven Remarks: LAB. TEST RESULTS Los Angeles Abrasion % Loss: Crush Count: Other Tests: Grain Size Analysis Z Passing Sieve Size 3/4" | 3/8" Hole No. 1-1/2" No. 4 No. 10 No. 40 No. 200 LL PI . Depth Potential Environmental: Conflicts Land Use: REFERENCE:

R.H. Area:	Old Crow			3	Bo	Trow (	or T	est Si	te No:	15	
Location: MP 208.8		ay No: 1 Highway 1		Dempste		de R	□L	-	Distance Access	e: 0.2 Good	
Tenure: Plan	Yes	No	1	Curre	nt Stat	us: —I	nact	ive			
STOCKPILE SITE TYPE HISTORY	Date: Descript: Material: Past Use Performan	Bed Bor nce Ratin	row g:	Sandst			Dat Amo	ree Coverposit	sed:	ub Spru	
TEST SUMMARY	Augered Lab. Tes Date:	ot C	Sket	ed ch (Pla ites Sa					□ Not	Indica	ited []
SUBSURFACE TEST RESULTS	Depth Overburde Material Quantity:		Max.			Min.	Prov	en	Ave	rage.	
	Remarks:										
LAB. TEST RES	TULTS [1	os Angelo	s Abr	asion Z	Loss:				Crush C	ount;	
Other Tests:											
Grain Size Ana	lysis	7 1	assin	g Sieve	Size						
Hole No. De	epth	1-1/2"	3/4"	3/8"	No. 4	No.	10	No. 40	No. 200	LL	PI
Conflicts	Environme Land Use:										
REFERENCE:											

R.M. Area:	Old Crow			GRAVEL I					-	- 16	
R.n. Area:	old Clow				[po	Frow	OT	lest 5	Lte No:		
Location:	KP Highw	ay No:	Name:	Dempster	S1	de I	R 🗀 1	LX	Distanda Access	Ce: 0.1 1	
Tenure: Plan	Yes	□ No □		Curren	t Stat	us:	Inac	tive			
	Date:							A	mount:		Cu. Y
STOCKPILE	Descripti	lon: Mo	derate	Slope			I	ree Co	ver: He	avy Scr	ub Spr
SITE	Material:	Be	drock -	- Sandsto	ne		р	eposit	:		•
	Past Use:	Pa						te:			
HISTORY	Performer		rrow_	<del></del>			Am	ount U	sed:		
	Remarks:										
			DPter			T					
EST SIRBIARY	Augered Lab. Tes			ced ch (Plan			nche shed			t Indica	<u>rted</u>
	Date:			Sites Sam		1 3 3 3	-				
SUBSURFACE	Depth		Max.			Min	. : <u>-</u>			erage	-
EST RESULTS		n				1	<u>.                                    </u>	·····	1,7	erake.	
	Material										
	Quantity:	(CuYds)Es	timate	ed .			Pro	ven		<u> </u>	
	Remarks:										
LAB. TEST RES	SULTS L	os Angel	es Abr	asion Z	Loss:				Crush	Count:	
Ada Test Res		os Angel	es Abr	asion X	Loss:				Crush (	Count:	
Admirations as particular and the second									Crush (	Count:	
Grain Size Ana				g Sieve :		No.	10	No. 40	Crush	Count:	PI
Grain Size Ana	lysis		Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana	lysis		Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana	lysis		Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana	lysis		Passin	s Sieve !	Size	No.	10	No. 40			P'I
Grain Size Ana	lysis	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis pth Environme	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis pth Environme	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis pth Environme	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis pth Environme	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI
Grain Size Ana Hole No. De	lysis pth Environme	1-1/2"	Passin	s Sieve !	Size	No.	10	No. 40			PI

R.M. Area:	Old Crow				Во	rrow c	r Test	Site	No: 17		
Location: MP 209.8		ay No: 1 Highway N		Dempst	S1	de R[	r	Dis		.05 mi lone	
Tenure: Plan	Yes	No [	1	Curre	nt Stat	us: I	nactive				
STOCKPILE SITE TYPE HISTORY	Date: Descript: Material: Past Use: Performar Remarks:	Bed	rock ·	Slope - Sands	cone			t:	Moderat		Yds.
TEST SUMMARY	Augered Lab. Tes	it C	Sket	ed ch (Pla Sites Sa		Tren		0	Not Ind	icated	
SUBSURFACE TEST RESULTS	Depth Overburde Material	n	Max.			Min.			Average		
LAB. TEST RES	Quantity:			1)			Proven				
Other Tests:	<u>[</u>	os Angele	s Abr	asion 7	Loss:			Cru	sh Count		
Grain Size Ana	lysis	7 P	assin	g Sieve	Size						
Hole No. De	pth	1-1/2"	3/4"	3/8"	No. 4	No. 1	.0 No. 40	) No.	200 LL	P	I
Potential Conflicts REFERENCE:	Environme Land Use:										
•						•		•			

R.M. Area: 010	l Crow	Bor	row or Test Site	No: 18
Location: MP 211.0	Highway No: 11 KP Highway Name:	Sid Dempster		tance: 0.05 mi
Tenure: Plan	Yes No No	Current Statu	s: Inactive	
STOCKPILE SITE TYPE HISTORY	Date:  Description: Gentle S  Material: Bedrock  Past Use: Borrow  Performance Rating:  Remarks:	- Sandstone	Amount Tree Cover Deposit: Date: Amount Used Trenched	: Mod. Scrub Spruce
TEST SUMMARY		ch (Plan)	Crushed:	
SUBSURFACE TEST RESULTS	Depth Max. Overburden Material		Min.	Average
	Quantity:(CuYds <b>)Estim</b> ate Remarks:	:d	Proven	
LAB. TEST RES	ULTS Los Angeles Abr	asion Z Loss:	Crt	ush Count:
Other Tests:				
Grain Size Ana	pth 1-1/2" 3/4"	3/8" No. 4	No. 10 No. 40 No.	.200 LL PI
Potential Conflicts REFERENCE:	Environmental: Land Use:			

R.H. Area:	Old Crow		· · · · · · · · · · · · · · · · · · ·	Bot	row or Te	st Site	No: 19	
Location: MP ZI2.5		ay No: 11 Highway Na		Sic er	e R xL	Dis Acc	tance: 0.1	
Tenure: Plan	Yes	No 🗔	Curren	t State	s: Inact	ive		
STOCKPILE SITE TYPE HISTORY	Date: Descripti Material: Past Use: Performan Remarks:	Bedr		one	De Dat	posit:	Mod. Scru	Cu.Yds.
TEST SUPPLARY	Augered Lab. Tes	<u> </u>	Pitted Sketch (Pla Sites Sa		Trenched Crushed:	0	Not Indic	ated D
SUBSURFACE TEST RESULTS	Depth Overburde Material	n	Max.		Min.		Average	
LAB. TEST RES	Quantity:				Prov			
Other Tests:		os Angele:	s Abrasion 7	Loss:		Cru	sh Count:	
Grain Size Ana	lysis	7 P.	ssing Sieve	Size				7
Hole No. De	pth	1-1/2"	3/4" 3/8"	No. 4	No. 10	No. 40 No.	200 LL	PI,
Potential Conflicts	Environme Land Use:							
REFERENCE:								

YUKON GRAVEL INVENTORY R.M. Area: Borrow or Test Site No: Old Crow Distance: 0.2 mi Highway No: 11 Side R Lx Location: Highway Name: Dempster 215.2 Good Access MP Current Status: Inactive Tenure: Yes No Plan Date: Amount: Cu. Yds. STOCKPILE Description: Moderate. Slope Tree Cover: Mod. Scrub Spruce SITE Fine Gravel Material: Deposit: TYPE Past Use: Date: Borrow HISTORY Performance Rating: Amount Used: Remarks: Not Indicated Pitted □ | Trenched Augered TEST SUMMARY Lab. Test Sketch (Plan) Crushed: Date: Sites Sampled: Depth Max. Average Min. **SUBSURFACE** TEST RESULTS Overburden Material Quantity:(CuYds)Estimated Proven Remarks: LAB. TEST RESULTS Los Angeles Abrasion % Loss: Crush Count: Other Tests: Grain Size Analysis Z Passing Sieve Size 3/4" | 3/8" 1-1/2" No. 40 No. 200 Hole No. No. 4 No. 10 PΙ Depth LL Environmental: Potential Conflicts -Land Use: REFERENCE:

R.M. Area: (	old Crow				Во	rrow c	r Test S	Lte No:	21 •	
Location: MP 217.7		ay No: 1 Highway N			ster	<u> </u>	LX	Distand Access	G000	
Tenure: Plan	Yes	No [	]	Curre	nt Stati	us: I	nactive			
STOCKPILE	Date:		]				·	mount:		Cu.Yds
SITE	Descripti	lon: Mod	erate	Slope			Tree Co	ver: Sc	rub Spri	ıce
TYPE	Material:		· · · · · · · · · · · · · · · · · · ·	- Sands	tone		Deposit	:	<u></u>	•
HISTORY	Past Use:						Date:			
	Performan Remarks:	ice Ratin	g:	<del></del>		···	Amount U	sed:		- <del></del>
TEST SUMMARY	Augered Lab. Tes	. C		ted tch (Pla	an) 🗆	Crus			t Indica	ited U
	Date:		<u> </u>	Sites S						
			<u> </u>		ambieg:	· · ·				
SUBSURFACE TEST RESULTS	Depth Overburde	n	Max.	• • •		Min.		Av	erage	<del></del>
	Material									
•	Quantity:	(CuYds <b>)E</b> si	imate	d			Proven			
	Remarks:						<del></del>			
	Remarks:									
	Remarks:									
LAB. TEST RES		os Angele	s Abr	asion 2	Loss:			Crush	Count:	
LAB. TEST RES			s Abr	asion 2	Loss:			Crush	Count:	
	SULTS L	os Angele			-			Crush	Count:	
Other Tests:  Grain Size Ana	SULTS L	os Angele		rasion 7	-	No. 1	LO No. 40	Crush	Count:	PI
Other Tests:  Grain Size Ana	SULTS L	os Angele	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana	SULTS L	os Angele	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana	SULTS L	os Angele	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana	SULTS L	os Angele	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De	SULTS L  Lalysis  Environme	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De	SULTS L	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De	SULTS L  Lalysis  Environme	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De  Potential Conflicts	SULTS L  Lalysis  Environme	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De  Potential Conflicts	SULTS L  Lalysis  Environme	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI
Other Tests:  Grain Size Ana Hole No. De  Potential Conflicts	SULTS L  Lalysis  Environme	Z F 1-1/2"	assin	g Sieve	Size	No. 1	10 No. 40			PI

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R.M. Area:	Old Crow			B	orrow o	or Test Si	te No:	22	*
Location: MP 220.0		ay No: 11 Highway Na	me: Den	S apster	lde R[	x L 🗆	Distanc Access	e: 0.05 None	
Tenure: Plan	Yes	] No [	<u> </u>	irrent Sta	tus:	nactive			
CTOCKET I	Date:		]			Ā	mount:	(	u.Yds.
STOCKPILE	Descripti	on: Mode	rate Slo	pe		Tree Co	ver: He	avy Scrub	Spruc
TYPE	Material:	Bedr	ock - Sa	ndstone		Deposit	:		
HISTORY	Past Use:					Date:			
l libroat	Performan Remarks:	ce Rating	:	-		Amount U	sed:	<del></del>	
	(Kemarks:		T						
TEST SUMMARY	Augered Lab. Tes	t 0	Pitted	(Plan) [	***		□ Not	Indicate	
	Date:		Sketch			nea:	<u> </u>		 
			1	s Sampled:	<del></del>				
SUBSURFACE TEST RESULTS	Depth Overburde	<b>D</b>	Max.		Min.		Ave	rage	
	Material	<del>"</del>			<u> </u>				
•	Quantity:	(CuYds <b>)Es</b> t:	imated			Proven			
	Remarks:								
	<u> </u>		·						
		· ·							
LAB. TEST RES	ULTS L	os Angele	s Abrasi	on Z Loss:			Crush C	ount:	
Other Tests:			•				: .		
Grain Size Ana	lysis	Z P.	assing S	ieve Size					
	pth		3/4" 3/1		No.	10 No. 40	No. 200	LL	PI
			=						
			-						
Potential Conflicts	Environme								
Contilets	Land Use:								
REFERENCE:				•					
	1.3 1.4 × 1.6 3	•							
مستسيد س			•		•				
				41.54.00	·		•		

R.M. Area: 01	ld Crow					Вот	TOW	Or î	Test Si	te No:	23	
Location: . MP 221.0		ay No: 11 Highway Na		Dempst	:er	219	e R			Distan Access	ce: Adj Non	
Tenure: Plan	Yes	No [	1	Curre	nt St	atu	s:	Inac	tive			-
STOCKPILE	Date:		]					r_		mount:		Cu.Yds
SITE	Descripti	on: Mode	rate	Slope				<u> </u>	ree Co	ver: M	od. Scru	b Spruce
TYPE	Material:		ock -	Shale					eposit	<u>:</u>		•
HISTORY	Past Use:	Borr		· · · · · · · · · · · · · · · · · · ·				<del> </del>	te:	· · · · · · · · · · · · · · · · · · ·		· —————
	Performan Remarks:	ce Rating	<del>.</del>				**********	Am	ount U	sed:		
	Kemarks.											
TEST SUMMARY	Augered		Pitt		<u> </u>	믜	Tre				ot Indica	ated 🗆
ESI SUPPORT	Lab. Tes	<u> </u>	Sket	ch (Pla	n)		Crus	shed	: .			
	Date:		S	ites Sa	mple	d: 		_				
SUBSURFACE	Depth		Max.				Min.			Av	erage	
TEST RESULTS		n				_		· · ·				
· ·	Material		<u> </u>					-		<u> </u>		
•	Quantity:	(CuYds)Est	imate	d				Pro	ven			
,	Remarks:	-										-
		·		A								
LAB. TEST RES	SULTS L	os Angeles	s Abr	asion %	Los	<b>3</b> :				Crush	Count:	
Other Tests:		•										
Grain Size Ana	alysis	<b>Z</b> P:	assin	g Sieve	Size	2						
Hole No. De	epth	1-1/2"	3/4"	3/8"	No.	4	No.	10	No. 40	No. 200	) LL	PI
		· ·			ļ	-	<u> </u>			<del> </del>		
										<u> </u>		
					<b>-</b>		<b>-</b> -	$\dashv$		+		+
					<u> </u>							
Potential	Environme	ntal:										
Conflicts	Land Use:											
REFERENCE:												
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			in the second	4.					•		ing and the second seco	
, a market										· · · · · · · · · · · · · · · · · · ·		
•					6/4P 					1.0	11 94 W.S.	

	R.M. Area:	Old Crow				Во	TTOW O	r Test	Site N	o: <u>2</u> 4		
	Location: MP 221.3		ay No: 11 Highway N		Dempst	Si er	de R[	_rx	Dist Acce	_	Adjacent None	4.174
1,4597,444	Tenure: Plan	Yes	No [	<u> </u>	Curre	nt Stat	us: I	nactive				
		Date:		]			•		Amount	::	Cu	.Yds
	STOCKPILE	Descripti			Slope					Mod.	Scrub Sp	ruce
	La company and the second seco	Material:			- Shale			Deposi	<u>t:</u>			
	YAVICINE	Performan Remarks:		3: 104				Amount	Vsed:			
		Augered		Pitt			Trend			Not Ir	ndicated	
	A STATE OF THE STA	Lab. Tes	3E C	<b>-</b>	ch (Pla ites Sa		Crusi	ied:	<u> </u>			<u> </u>
	SUBSURFACE	Depth		Max.			Min.			Averas		
		Serburde Material	en .							A .	· · · · · · · · · · · · · · · · · · ·	
1.00												
Sant-		Quantity:	(CuYds)Est	imate	d		<u> </u>	roven				닉
ing State of		Remarks:	(CuYds)Est	imate	d		F	roven				
		Remarks:						roven				
-		Remarks:	(CuYds)Est			Loss:		roven	Crus	h Cour	nt:	
-		Remarks:				Loss:		roven	Crus	h Cour	nt:	
-		Remarks:	os Angele	s Abr				roven	Crus	h Coun	nt:	
-	Grain Size A	Remarks:	os Angele	s Abr	asion Z		No. 1		Crus			21
	Grain Size A	Remarks:	os Angele	assin	asion Z	Size						21
-	Grain Size A	Remarks:	os Angele	assin	asion Z	Size						PI
	Grain Size A	Remarks:	2 P	assin	asion Z	Size						
	Grain Size A Hole No.	Remarks:	z P 1-1/2"	assin	asion Z	Size						PI I
	Grain Size A Hole No.  REFERENCE:	Remarks:  ESULTS  Land Hee:	z P 1-1/2"	assin	asion Z	Size						
	Grain Size A Hole No.	Remarks:  ESULTS  Land Hee:	z P 1-1/2"	assin	asion Z	Size						
	Grain Size A Hole No.  REFERENCE:	Remarks:  ESULTS  Land Hee:	z P 1-1/2"	assin	asion Z	Size						21
	Grain Size A Hole No.  REFERENCE:	Remarks:  ESULTS  Land Hee:	z P 1-1/2"	assin	asion Z	Size						

R.M. Area:	Old Crow	כ			Box	TOW OI	Test Si	te No	25					
Location: MP 226.6	Highway KP	ay No: T Highway N	ame: [	Dempst	Sic er	e R[X		Dista: Acces		05 mi				
Tenure: Plan	Yes	No [	]_	Currer	t Stati	ıs: In	active							
STOCKPILE SITE TYPE HISTORY	Material: Past Use:	Description: Moderate Slope  Interial: Bedrock - Siltstone, Shale  Deposit:  Date:  Date:  Description: Moderate Slope  Interial: Bedrock - Siltstone, Shale  Deposit:  Date:  Deposit:  Date:  Deposit:  Depo												
TEST SUMMARY	Augered Lab. Tes		Sket	ed ch (Pla ites Sa	n) 🛘	Trenc			lot Indica	ited 🗆				
SUBSURFACE TEST RESULTS	Depth Overburde Material Quantity: Remarks:		Max.			Min.	roven		verage					
LAB. TEST RES	SULTS L	os Angelo	s Abr	asion X	Loss:			Crush	Count:					
Grain Size Ana	alysis	7 1	assin	g Sieve	Size			· · · · · ·						
Hole No. De	epth	1-1/2"	3/4"	3/8"	No. 4	No. 1	0 No. 40	No. 20	00 LL	PI				
Potential Conflicts	Environme Land Use:													

R.M. Area:	Old Crow			,-1		Bot	FOW	OT :	rest S	ite	No:	26	,	
Location: MP 228.1		ay No: 1: Highway Na		Demps		Sid	e R	· 🗀	· <b>む</b>	Dis		e: 0.0   Goo		
Tenure: Plan	Yes	No L	]	Curre	nt St	atu	is:	Act	ive					
					_									
	Date:		]			,			[	mour	it:		Cu.	Yds.
STOCKPILE SITE	Descripti	on: Gen	tle-Sl	оре				Ī	ree Co	ver:	Li	ght Sc	rub S	pruc
TYPE	Material:	Bed	rock -	Sands	tone			. 0	eposit				•	
	Past Use:	Bor	row					Da	te:		<del></del>			
HISTORY		ce Rating	•					Am	ount U	sed:				
	Remarks:													
•	Augered	0	Pitte	d ·			Tre	che	d		Not	Indic	ated	
TEST SUMMARY	Lab. Tes	t O	<del></del>	h (P1	an)		Crus							
	Date:		] si	tes S	ample	d:				<u></u>				
SUBSURFACE	Depth		Max.	-			Min.	·			Ave	rage		
TEST RESULTS		n										<u> </u>		
·	Material								+ 11.2					
•	Quantity:	(CuYds)Est	imated					Pro	ven					
	Remarks:											1.		
LAB. TEST RE	SULTS [	os Angele	з Авта	sion ?	Loss	3:		-		Cru	sh C	ount:		
Other Tests:												<del></del>		
Grain Size An	alysis	Z P:	assing	Sieve	Size	· ·						<u> </u>		
Hole No. D	epth			3/8"	No.	******************	No.	10	No. 40	No.	200	LL	P	ı,
					<b>_</b>					1_				
				<u></u> .					<u> </u>	-			_	-
				<u>,</u>	<del> </del>					+			-	
					<u> </u>		<u> </u>							
Potential	Environme	ntal:												
Conflicts	Land Use:				į.									
REFERENCE:														
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<u>                                  </u>	· · · · · ·	Y	UKON	GRAVEL	INVEN	TOR	<u>Y</u>					
R.M. Area:	Old Crow		•	· · · · · · · · · · · · · · · · · · ·	C	Bor	O WO	r Te	st Si	te No:	. 27	
Location: MP 229.0	Highw KP	ay No: II Highway N	ame:	Dempst	er	51d	2 R[	×L[		Distanc Access	Non	5 mi
Tenure: Plan	Yes	No [	1_	Curre	nt St	ater	3: I	nact	ive			
	Date:		]	<u> </u>	<del></del>			<u></u>	Az	nount:		Cu.Yds.
STOCKPILE SITE	Descripti	on: Mod	erate	Slope				Tr	ee Cov	/er: Mo	derate	Spruce
TYPE	Material:	Bed	rock	- Sands	tone			De	posit			
HISTORY	Past Use:	Bor	TOW:					Dat	e:			
HISTORY		ce Rating	:					Amo	unt Us	ed:		
	Remarks:											
TEST SUMMARY	Augered	0	Pitt				Trend			Not	Indica	ated
	Lab. Tes	t 0	,	ch (Pla	,		Crusi	nea:		<u> </u>		
	Date:		<u> </u>	Sites Sa	mpled	!: 						
SUBSURFACE TEST RESULTS	Depth Overburde	···	Max.	<u> </u>		-+:	Min.	-		· Ave	rage	
	Material				<u> </u>		:					
•	Quantity:	(CuYds)Est	imate	d				Prov	en			
	Remarks:											•
			<u> </u>		· · · · ·		· · · ·	-				
LAB. TEST RES	SULTS [	os Angele	s Abt	asion %	Loss	<u>:</u>				Crush C	ount:	
Other Tests:												
Grain Size Ana	alysis	Z P	assin	g Sieve	Size							
Hole No. De	epth	1-1/2**	3/4"	3/8"	No.	4	No. 1	10 1	No.40	No. 200	LL	PI'
			<del></del>	<b></b>		-						-
			·		-	- ,-	<del>-</del> ·					
Potential Conflicts	Environme Land Use:		7.77			<del></del>	<del></del>					
REFERENCE:												
REFERENCE:		•										
		<b>.</b>										
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		and the second s			- Andrews			- Joseph	e s de la companya d			
	-				- "					•		

R.M. Area:	Old Cro	<u> </u>			Во	rrow	or Test S	ite No:	28	
Location: MP 229.3		ay No: I Highway N		Dempste		de R	□ L N	Distancess	ce: 0.05	
Tenure: Plan	Yes	] No [	]	Curren	nt Stat	us:	Inactive			
STOCKPILE SITE	Date: Descripti	lon: Mod		Amount: Cu.Yds.  Cover: Heavy Scrub Spruc						
TYPE	Material:		rock	- Sands	tone	•				
HISTORY	Past Use: Performan Remarks:	Bor ace Rating	TOW 3:				Date:	!sed:		
TEST SUMMARY	Augered Lab. Tes		1	ed ch (Pla	n) 🗆		nched shed:	□ No	t Indica	ated []
SUBSURFACE	Date:		] s	ites Sa	mpled:	Min.		TAV	erage	
		n							Etake	
•	Quantity	(CuYds)Est	imate	đ			Proven			
	Femarks:									
LAB. TEST RES	SULTS [L	os Angele	s Abr	asion %	Loss:			Crush	Count:	
Other Tests:				-						
Grain Size Ana				g Sieve	Ţ	· ·				
Hole No. De	epth	1-1/2"	3/4"	3/8"	No. 4	No.	10 No. 40	No. 200	LL	PI
	Environme Land Use:									
REFERENCE:										

R.M. Area:	Old Crow			Bo	TOW OT	Test Si	te No:	29			
Location: MP 231.5		ay No: 1 Highway Na			de RX		Distance Access	Goo	acent d		
Tenure: Plan	Yes	No [	Cu	rrent Stat	us: Ins	active					
STOCKPILE SITE TYPE HISTORY TEST SUMMARY	Date: Descripti Material: Past Use: Performan Remarks: Augered Lab. Tes	Bed Bornce Rating				Tree Cor Deposit ate: mount Us	sed:	ver: Heavy Scrub Spru			
SUBSURFACE TEST RESULTS	Date: Depth Overburde Material Quantity: Remarks:	en (CuYds <b>)Est</b> :	Max.	Sampled:	Min. Average Proven						
LAB. TEST RES	SULTS L	os Angeles	s Abrasio	n Z Loss:			Crush C	ount:			
Other Tests:  Grain Size Ana	1	7 3.									
<del></del>	epth		assing Si 3/4" 3/8	1	No. 10	No. 40	No. 200	LL	PI		
Potential Conflicts REFERENCE:	Environme Land Use:										
		•									

R.M. Area:	Old Crow				Borrow or Test Site No: 30							
Location: MP 232.2		ay No: 11 Highway N		Dempst		de R	ĭr□	Distand Access	e: 0.0 None	5 m1		
Tenure: Plan	Yes	No [		Curre	nt Stat	us:	Inactive					
STOCKPILE SITE TYPE HISTORY	Date: Descripti Material: Past Use: Performar Remarks:	San	dston	Slope			<u> </u>	t:	od. Scru	Cu.Yds.		
TEST SUMMARY	Augered Lab. Tes Date:	0 3	•	ch (Pla	•	+	nched shed:	O No	t Indica	ted 🗆		
SUBSURFACE TEST RESULTS	Depth Overburde Material		Max.			Min.	Average					
	Remarks:	(CuYds <b>)E</b> st	TWS!C				Proven					
LAB. TEST RES	SULTS [L	os Angele	s Abt	asion %	Loss:			Crush	Count:			
Other Tests:  Grain Size Ana	lysis		essin	g Sieve	Size							
<del> </del>	pth		3/4"	3/8"	No. 4	No.	10 No. 40	No.200	LL	PI'		
l	Environme											

### YUKON CRAVEL INVENTORY R.M. Area: Old Crow Borrow or Test Site No: 31 Distance: 0.05 mi Location: Highway No: 11 Side R x L Highway Name: Dempster KP [ None Access Tenure: Current Status: ...Insetive Plan Yes No Date: Amount: Cu. Yds. STOCKPILE Moderate Slope Description: Tree Cover: Scrub Spruce SITE Bedrock - Sandstone Material: Deposit: TYPE Past Use: Date: Borrow HISTORY Performance Rating: Amount Used: Remarks: Augered Pitted Not Indicated Trenched TEST SUPPLARY Lab. Test □ | Sketch (Plan) Crushed: Date: Sites Sampled: Depth Max. SUBSURFACE Min. Average TEST RESULTS Overburden Material Quantity:(CuYds)Estimated Proven Remarks: LAB. TEST RESULTS Los Angeles Abrasion % Loss: Crush Count: Other Tests: Grain Size Analysis Z Passing Sieve Size Hole No. 3/8" Depth 1-1/2" 3/4" No. 4 No. 10 No. 40 No. 200 PI' LL Potential Environmental: Conflicts Land Use: REFERENCE:

R.M. Area:	Old Crow				Вс	rrow	or Test S	lte No:	32		
Location: MP 233.6		ay No: 11 Highway Na		Dempste	S1	de R	⊠r□	Distand		acent od	
Tenure: Plan	Yes	No 🗀	J	Curre	nt Stat	us:	Active				
STOCKPILE SITE TYPE HISTORY	Date: Descripti Material: Past Use: Performan	Bed	rock ·	Slope - Shale		mount: Cu.Yd  ver: Scrub Spruce  :					
TEST SUPPLARY	Augered Lab. Tes Date:	t 0	`	ed :h (Pla		+	nched shed:	□ No	t Indica	ited D	
SUBSURFACE TEST RESULTS	Depth Overburde Material Quantity:	n (CuYds <b>)Es</b> t	Max.			Min.	Proven	Average			
LAB. TEST RES	Remarks:							T			
Other Tests:		os Angeles	s Abra	sion Z	Loss:			Crush	Count:		
Grain Size Ana	lysis	Z Pa	ssing	Sieve	Size	·					
<del></del>	epth			3/8"	No. 4	No.	10 No. 40	No. 200	LL	PI	
Potential Conflicts	Environmental:  Land Use:										
REFERENCE:											

R.M. Area:01d	Crow				Bot	TOW OT	Test S	ite No:	33			
Location: MP 236.2		vay No: 1 Highway		Dempsts	Sic	de R[	]r[x]	Distance Access	e: 0_0 Good	01 =1		
Tenure: Plan	Yes	No [		Curre	nt Statu	ıs: In	active					
STOCKPILE SITE	Date:		oderate	e Slope		<u> </u>	Tree Co	Amount:	d, Scr	Cu.Yds		
TYPE	Material: Past Use:			- Shale	)		Deposit	:				
HISTORY	Past Use: Borrow Date:  Performance Rating: Amount Used:  Remarks:											
TEST SUMMARY	Augered Lab. Tes			ch (Pla		Trench Crushe		□ Not	Indica	ated []		
SUBSURFACE TEST RESULTS	Date: Depth Overburde Material	n en	Max.	Sites Sa	mpled:	Min.		Ave	rage			
	Quantity:	(CuYds)Es	timate	d		Pr	oven					
LAB. TEST RES	SULTS [	os Angel	les Abr	asion Z	Loss:			Crush C	ount:			
Other Tests:		•	-		-					·		
Grain Size Ana	<del></del>			g Sieve	T							
Hole No. De	epth	1-1/2"	3/4"	3/8"	No. 4	No. 10	No. 40	No. 200	LL	PI'		
of a seminary Men	Environme											
REFERENCE:	300 M											

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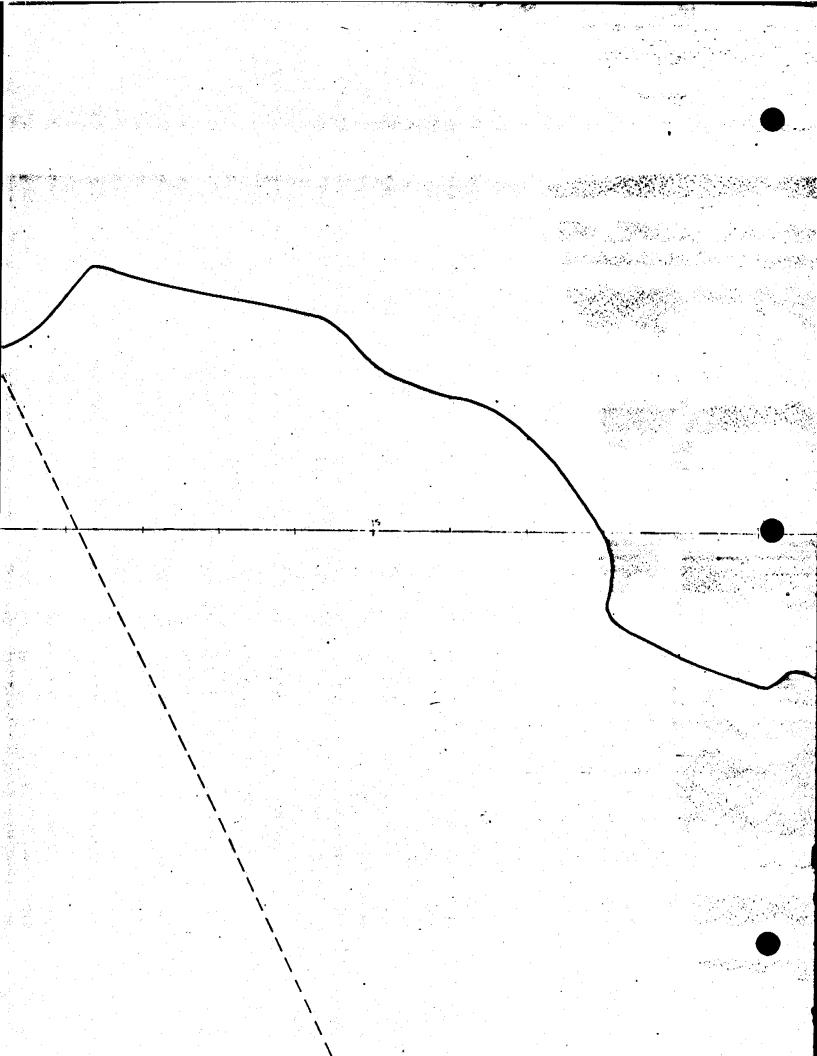
10 M

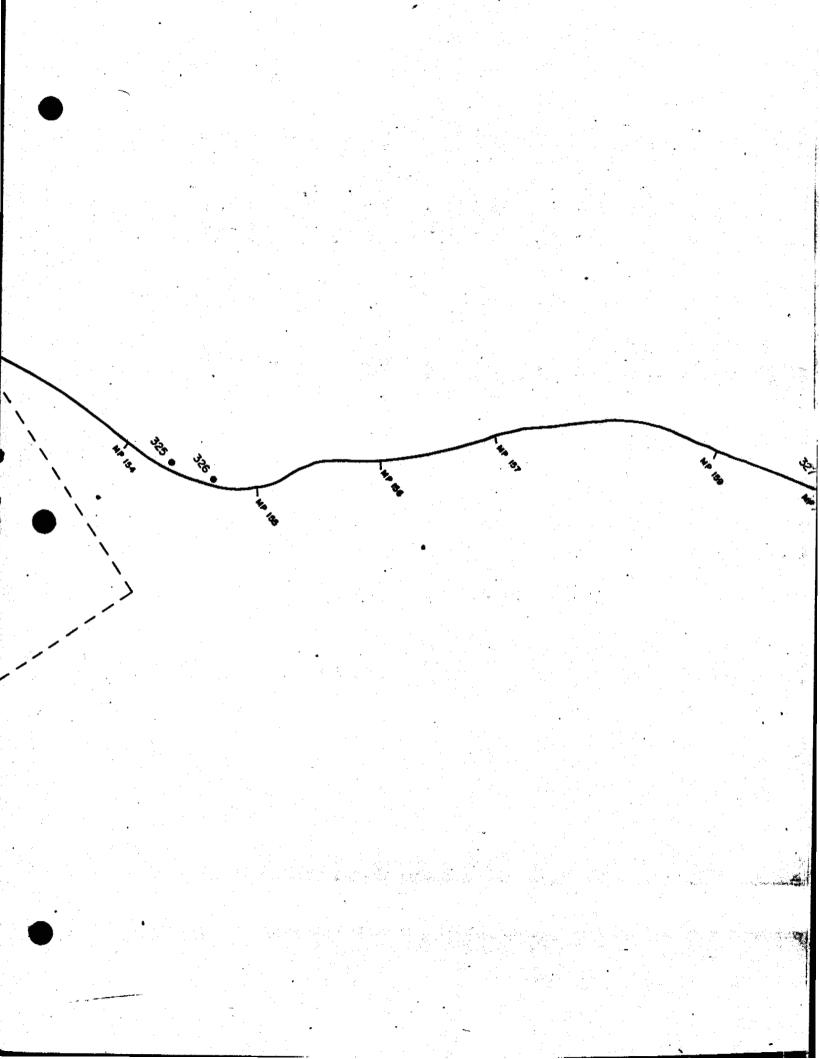
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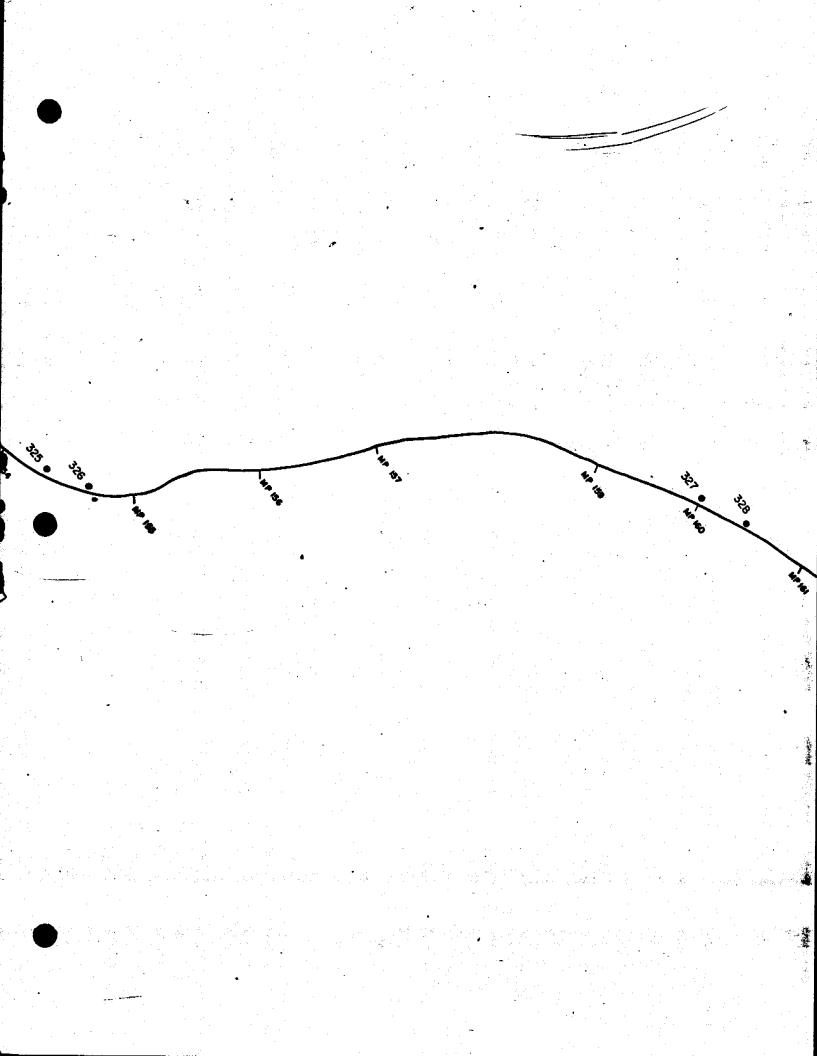
to 236.5

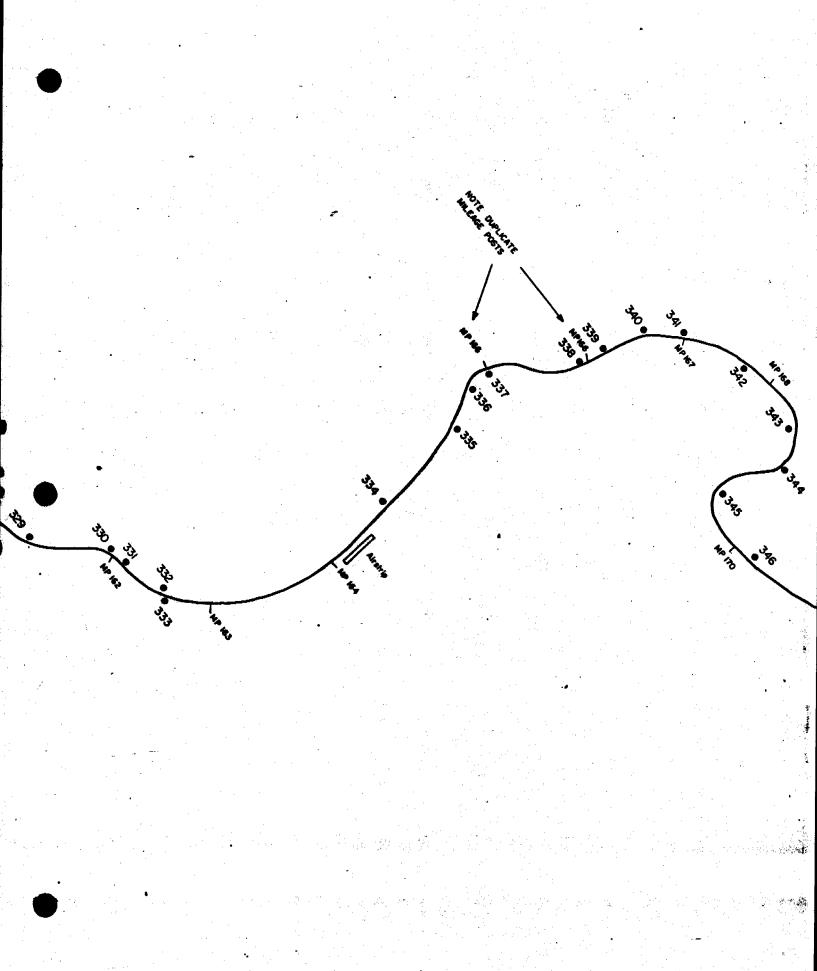
2000 mm

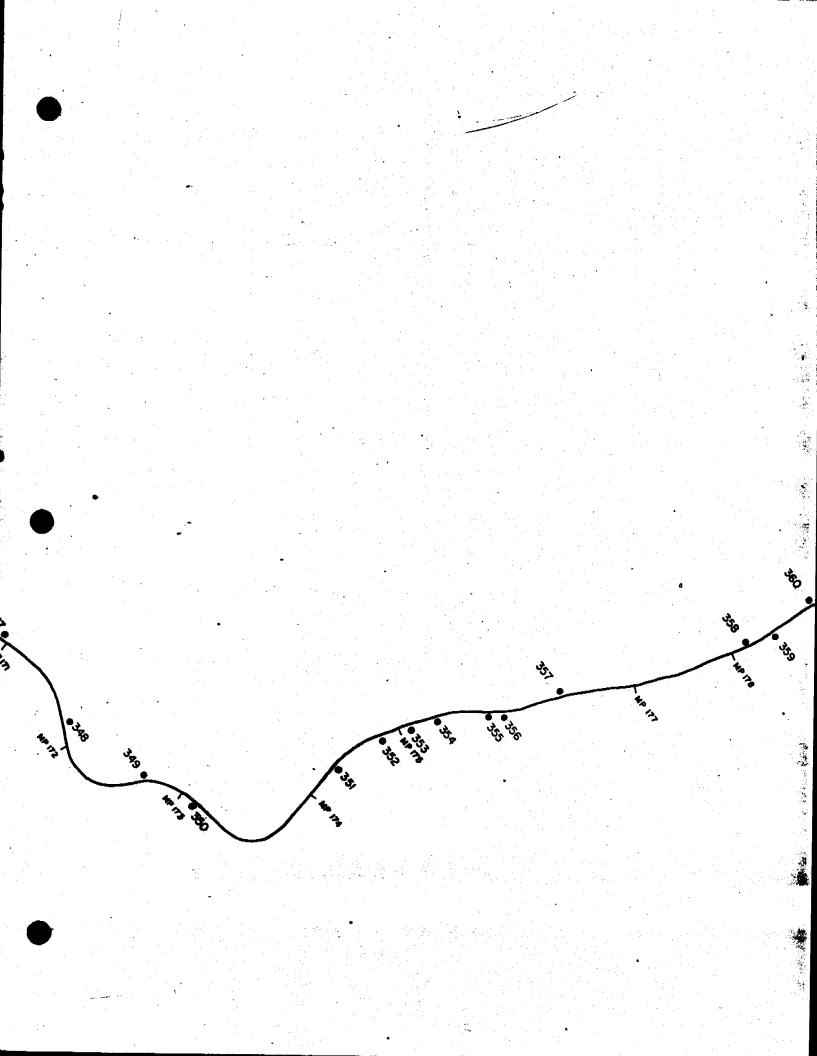
ACRE - 1077

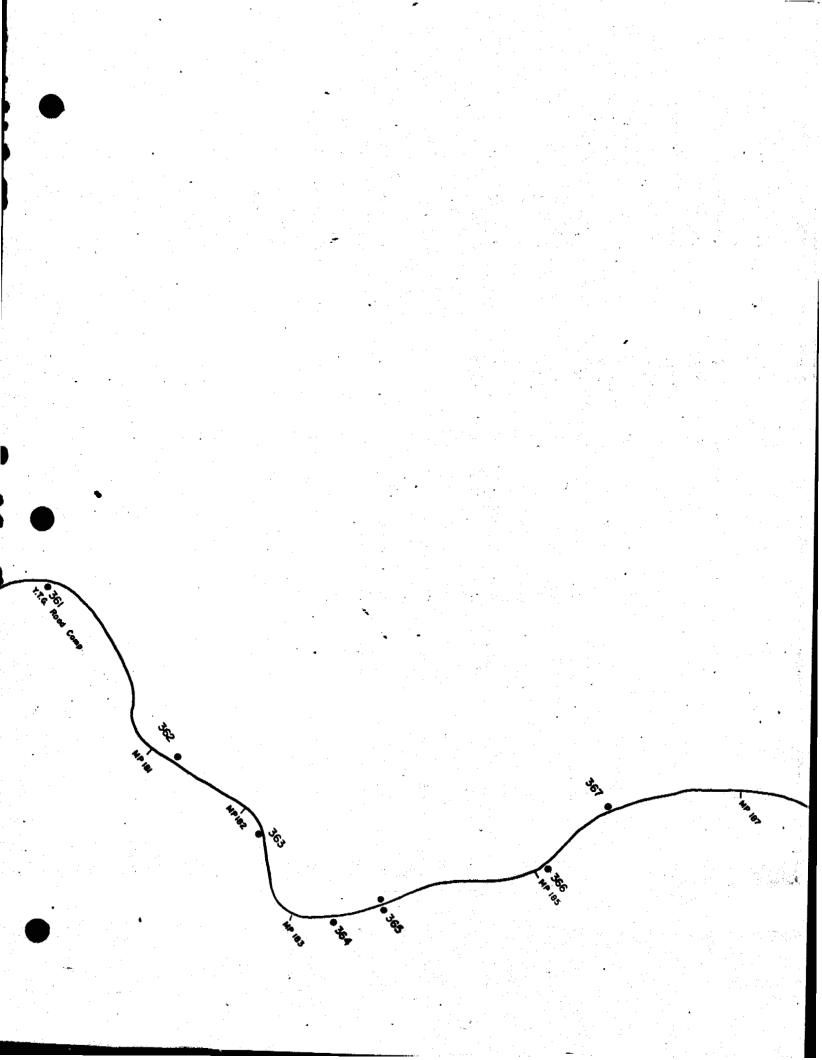


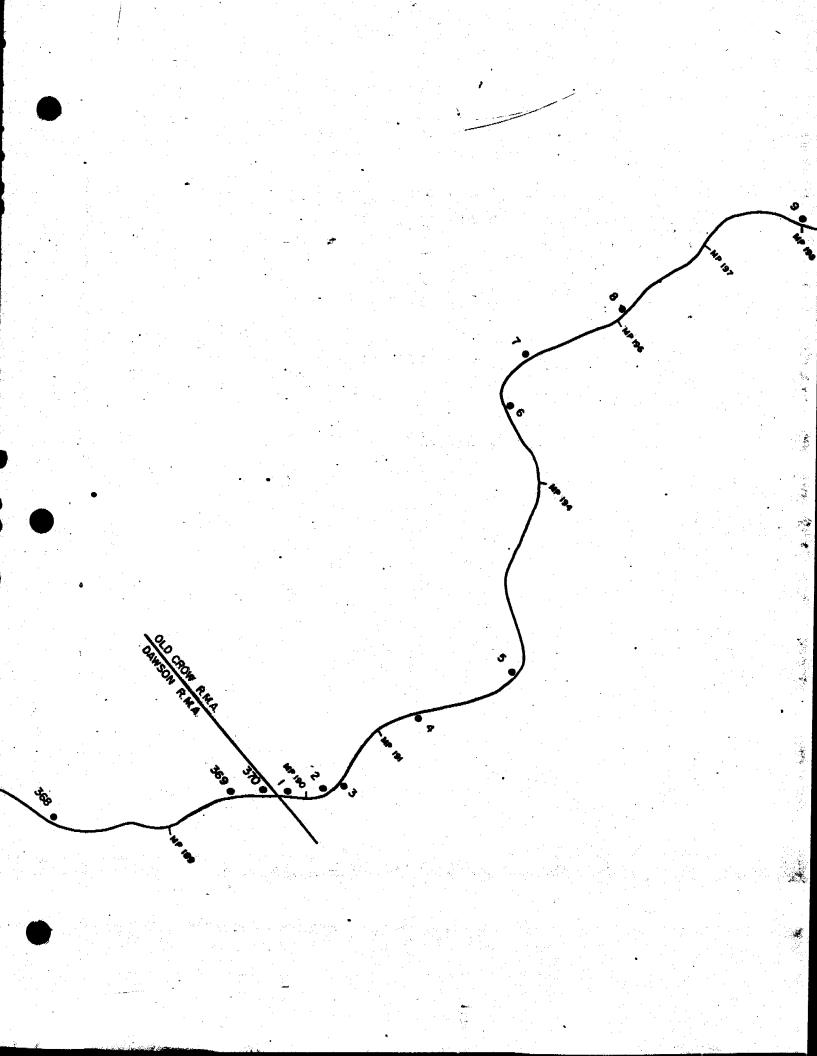












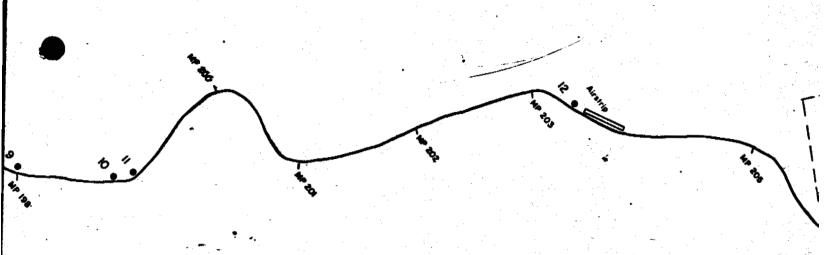
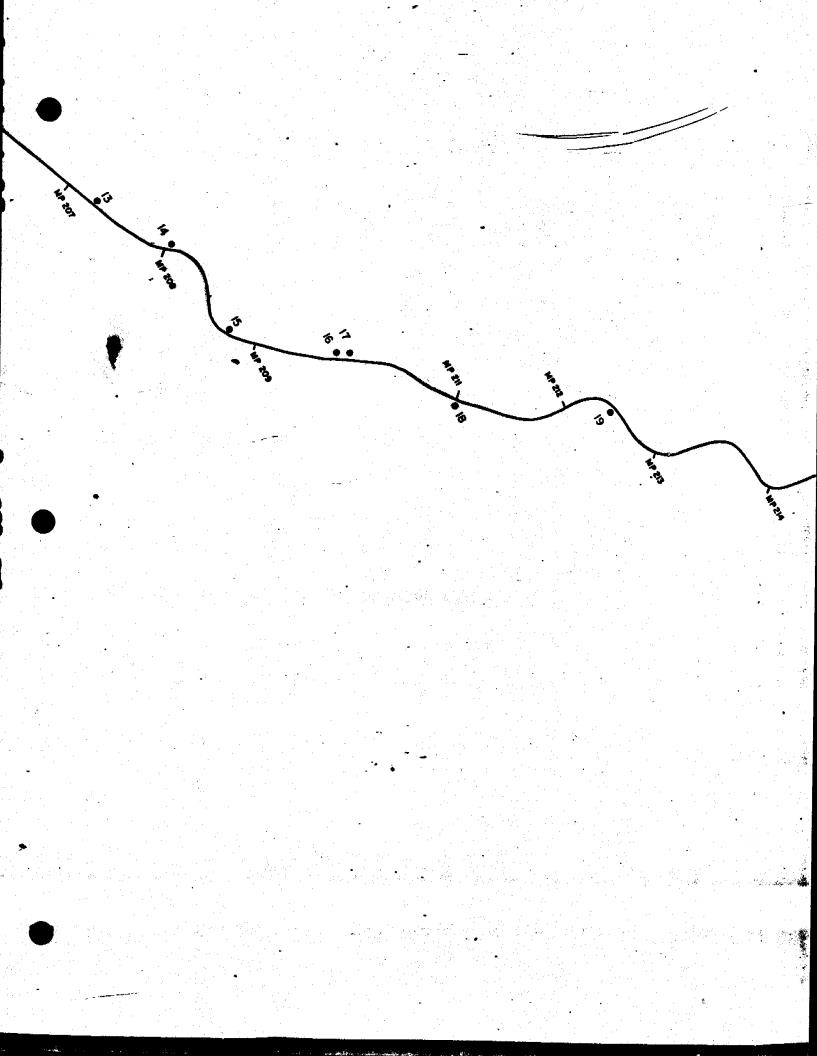


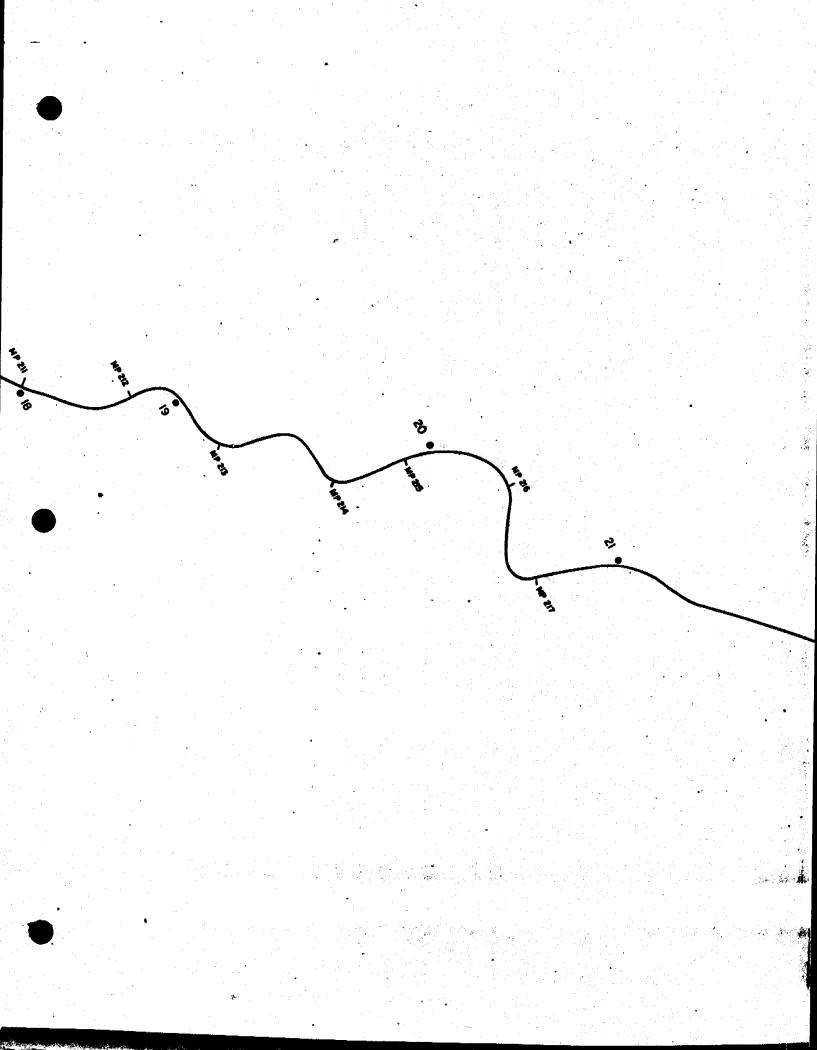
FIG. 50

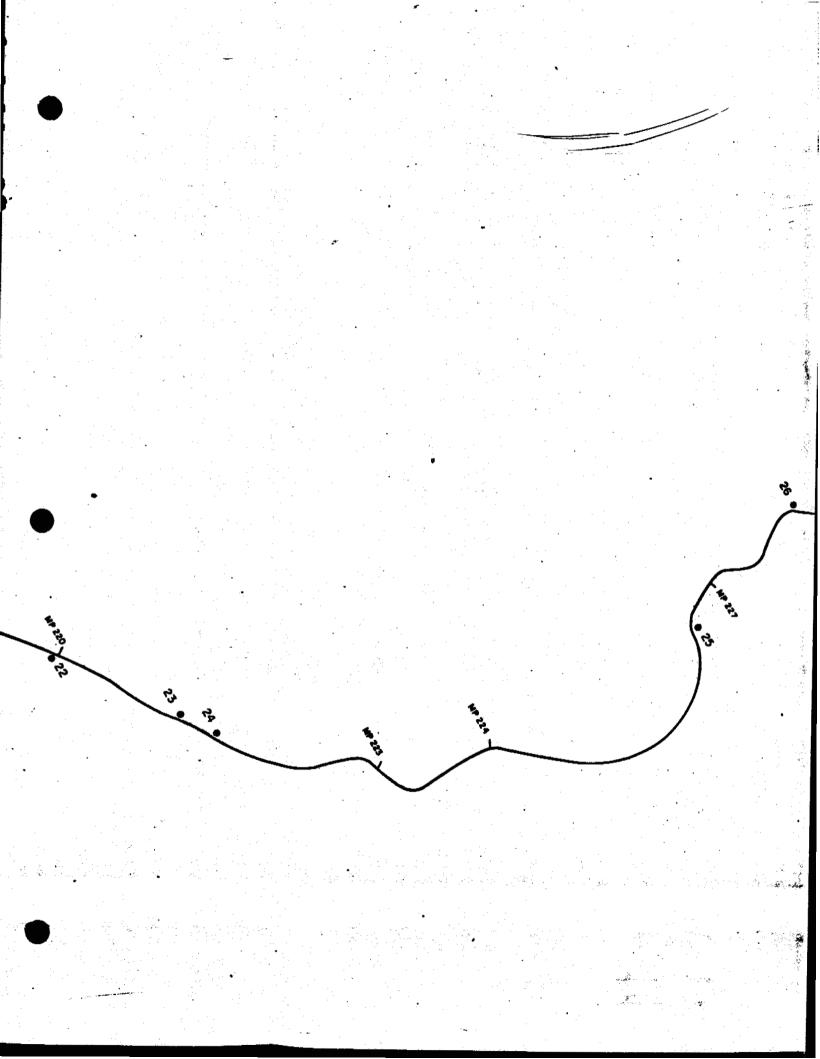
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### YUKON GRAVEL INVENTORY

### DEMPSTER HIGHWAY MP 152.5 to 206.0







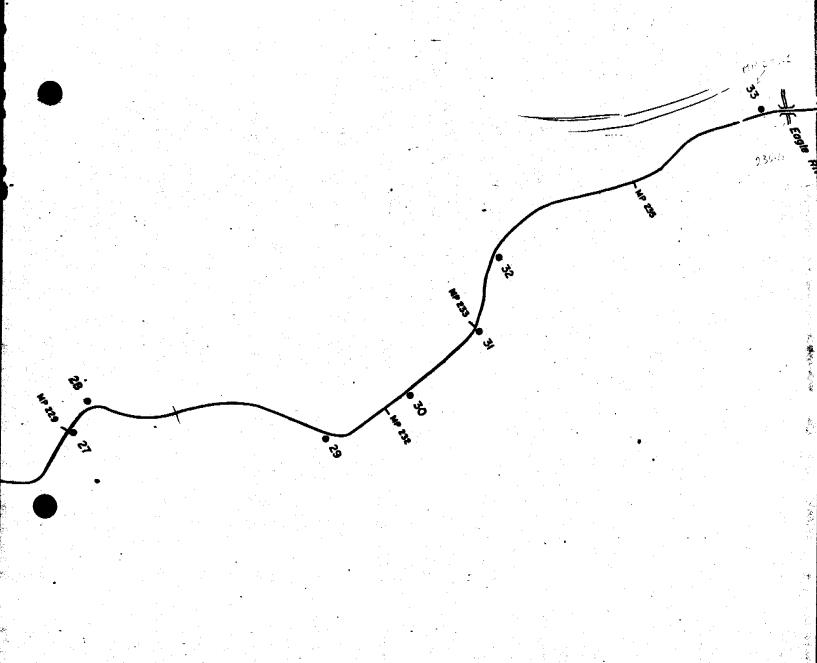


FIG. 51

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## YUKON GRAVEL INVENTOR

DEMPSTER HIGHWAY MP 2060 to