

GEOTECHNICAL INVESTIGATIONS

**Highway Construction
Km 1738.3 to 1750.2 Highway #1
Yukon, 2002-2003
Volume 2 of 4**

The logo for Yukon, featuring the word "Yukon" in a bold, sans-serif font. The letter "Y" is stylized with a diagonal stroke that extends upwards and to the left.

**Community and Transportation Services
Transportation Engineering Branch**

Geotechnical Services

**BOX 2703, WHITEHORSE, YUKON
PHONE 867-667-8820 FAX 867-393-6447**

ORIGINAL - Do Not Remove From File

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1738.3 to 1750.2
YUKON 2002-2003

ALASKA HIGHWAY #1

Highway Construction
Km 1738.3 to 1750.2
Alaska Highway #1
Yukon 2002-2003
Volume 2 of 4

This Data Package prepared for project viewing:

March, 2002

Transportation Engineering Branch
Geotechnical Services
461 Range Road
Whitehorse, Yukon

CONTENTS

Volume 1 of 4

INTRODUCTION

Investigation notes, classification methods and legends.

CENTRELINE TESTING ALASKA HIGHWAY

Subsurface Exploration and Testing Report Sheets are provided.
The reports for the centreline holes are arranged according to project location, starting at Km 1775+500 and increasing to Km 1786+500.

TEST HOLES 1292 to 1326	shown with prefix 541-
TEST HOLES 1327 to 1333	shown with prefix 542-
TEST HOLES 1334 to 1369	shown with prefix 543-
TEST HOLES 1370 to 1400	shown with prefix 544-
TEST HOLES 287 to 332	shown with prefix 611-
TEST HOLES 333 to 353	shown with prefix 612-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)

Volume 2 of 4

CENTRELINE TESTING ALASKA HIGHWAY

Laboratory Testing Result Sheets are provided.

The reports for the centreline holes are arranged according to test hole number, starting at 541-1292 and increasing to 612-353.

TEST HOLES 1292 to 1326	shown with prefix 541-
TEST HOLES 1327 to 1333	shown with prefix 542-
TEST HOLES 1334 to 1369	shown with prefix 543-
TEST HOLES 1370 to 1400	shown with prefix 544-
TEST HOLES 287 to 332	shown with prefix 611-
TEST HOLES 333 to 353	shown with prefix 612-

NOTE:

Centreline Test Hole locations indicated on the Subsurface Exploration and Testing Report Sheets are approximate. Actual Test Hole locations, located by GPS survey or field survey, are as shown on project plans.

CONTENTS (continued)

Volume 3 of 4

GRANULAR SOURCE Km 1738.8 RHS & LHS ALASKA HIGHWAY

Location plans and subsurface exploration and testing report sheets are provided.

Auger Testing

2001	TEST HOLES 344 & 345	shown with prefix 612-
2001	TEST HOLES 1891 to 1904	shown with prefix 622-

Backhoe Testing

2001	TEST PITS 1699 to 1713	shown with prefix 630-
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CONTENTS (continued)**Volume 4 of 4****GRANULAR SOURCE Km 1750.0 LHS ALASKA HIGHWAY**

Location plans, photographs, and subsurface exploration and testing report sheets are provided.

Auger Testing

1985	TEST HOLES 32 and 37 to 40	shown with prefix 777-
2001	TEST HOLES 1948 to 1964	shown with prefix 625-

Backhoe Testing

1985	TEST PITS 108 to 112	shown with prefix 808-
1988	TEST PITS 1 to 21	shown with prefix 029-
1988	TEST PITS 22 to 39	shown with prefix 030-
2002	TEST PITS 1 to 25	shown with prefix 631-

HIGHWAY CONSTRUCTION

GEOTECHNICAL INVESTIGATION

Km 1738.3 to 1750.2
YUKON 2002-2003

ALASKA HIGHWAY #1

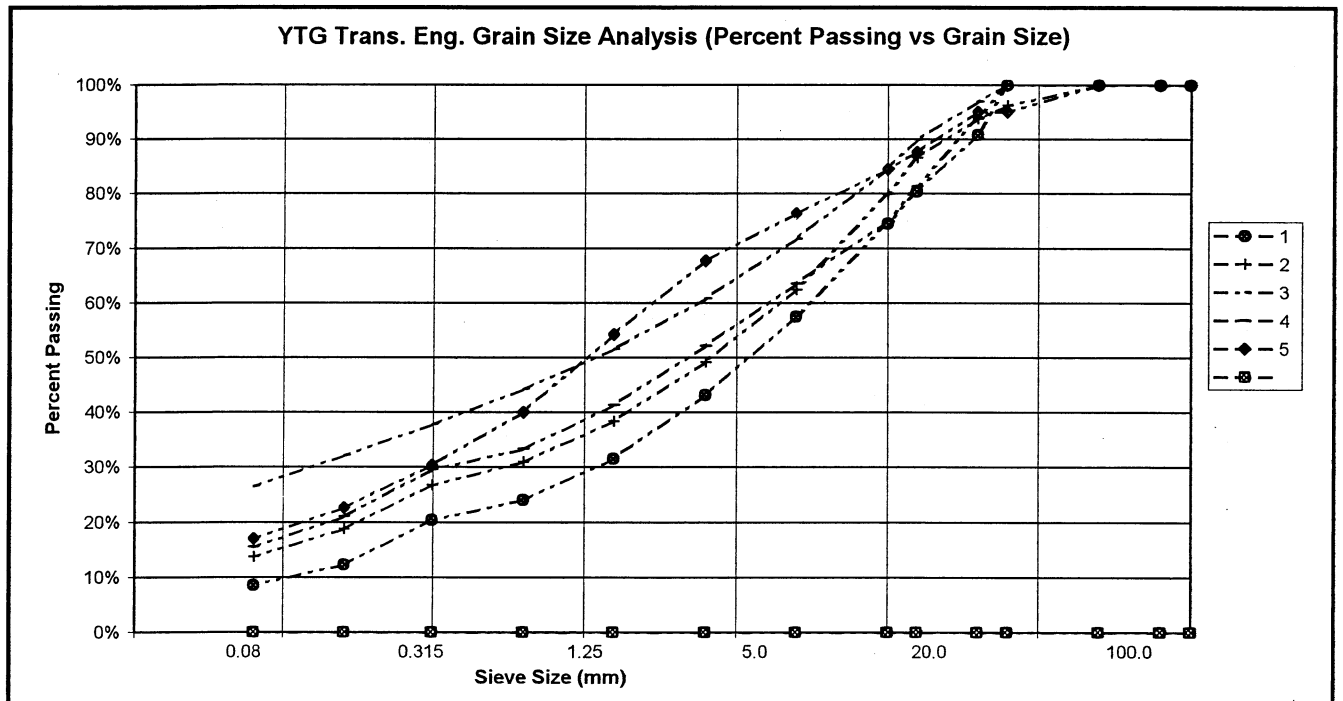
**CENTRELINE TESTING
1738+163 to 1750+300
ALASKA HIGHWAY**

PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+925 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1292

DATE COMP: 2000/04/26

FIELD NO:	1	2	3	4	5	
LAB NO:	306	307	308	309	310	
DEPTH:	6-1.0	1.2-1.4	2.0-2.2	2.8-3.0	4.4-4.7	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	96%	100%	100%	95%	
20.0	91%	94%	97%	94%	95%	
12.5	80%	87%	90%	81%	88%	
10.0	75%	80%	85%	75%	84%	
5.0	58%	62%	72%	64%	76%	
2.5	43%	49%	61%	52%	68%	
1.25	32%	38%	52%	41%	54%	
0.630	24%	31%	44%	33%	40%	
0.315	20%	27%	38%	30%	30%	
0.160	12%	19%	32%	21%	23%	
0.080	9%	14%	27%	16%	17%	
M.C.(%)	6%	3%	6%	5%	5%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	42	38	28	36	24	
% SAND:	49	49	45	48	59	
% FINES:	9	14	27	16	17	
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	

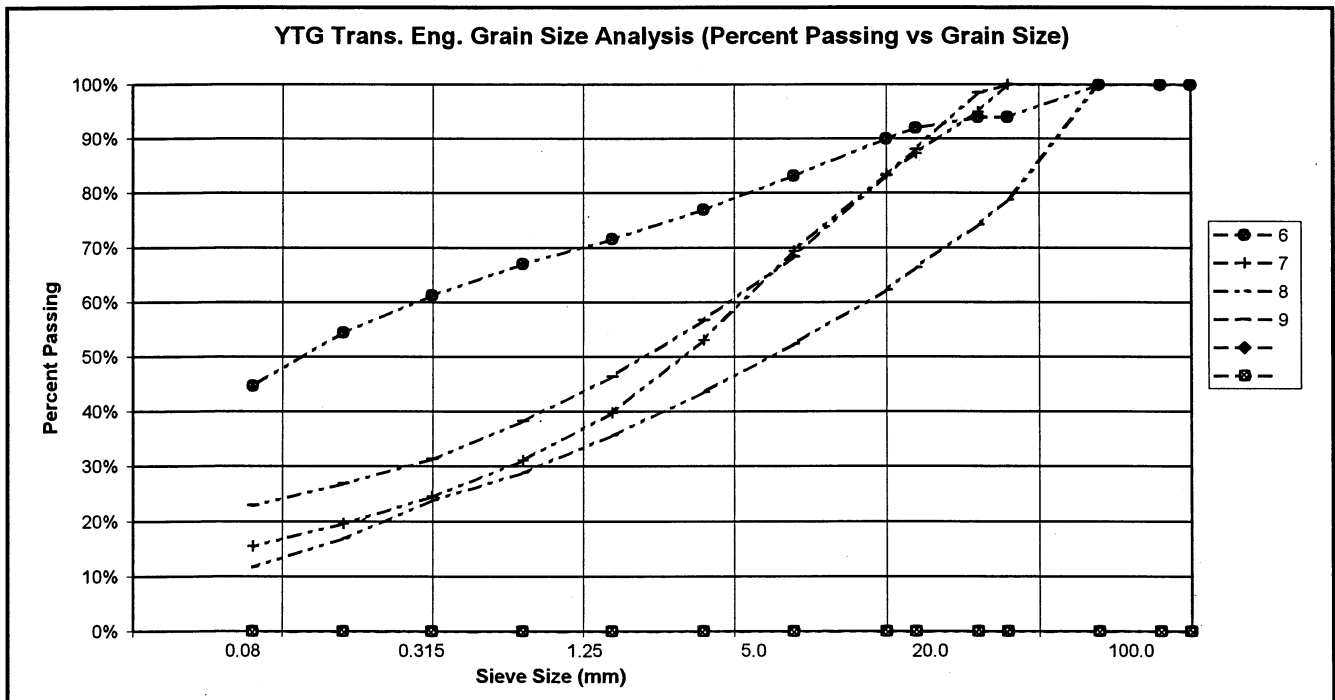


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+000 17M LT
 LOGGED BY: G.C.

HOLE No.: 541-1293

DATE COMP: 2000/04/26

FIELD NO:	6	7	8	9		
LAB NO:	311	312	313	314		
DEPTH:	1.2-1.5	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	94%	100%	79%	100%		
20.0	94%	95%	74%	99%		
12.5	92%	87%	66%	88%		
10.0	90%	83%	62%	83%		
5.0	83%	69%	52%	68%		
2.5	77%	53%	44%	57%		
1.25	72%	40%	36%	46%		
0.630	67%	31%	29%	38%		
0.315	61%	24%	24%	31%		
0.160	54%	20%	17%	27%		
0.080	45%	15%	12%	23%		
M.C.(%)	16%	3%	3%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	17	31	48	32		
% SAND:	39	54	41	45		
% FINES:	45	15	12	23		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-SM)	SILTY SAND WITH GRAVEL (SM)		

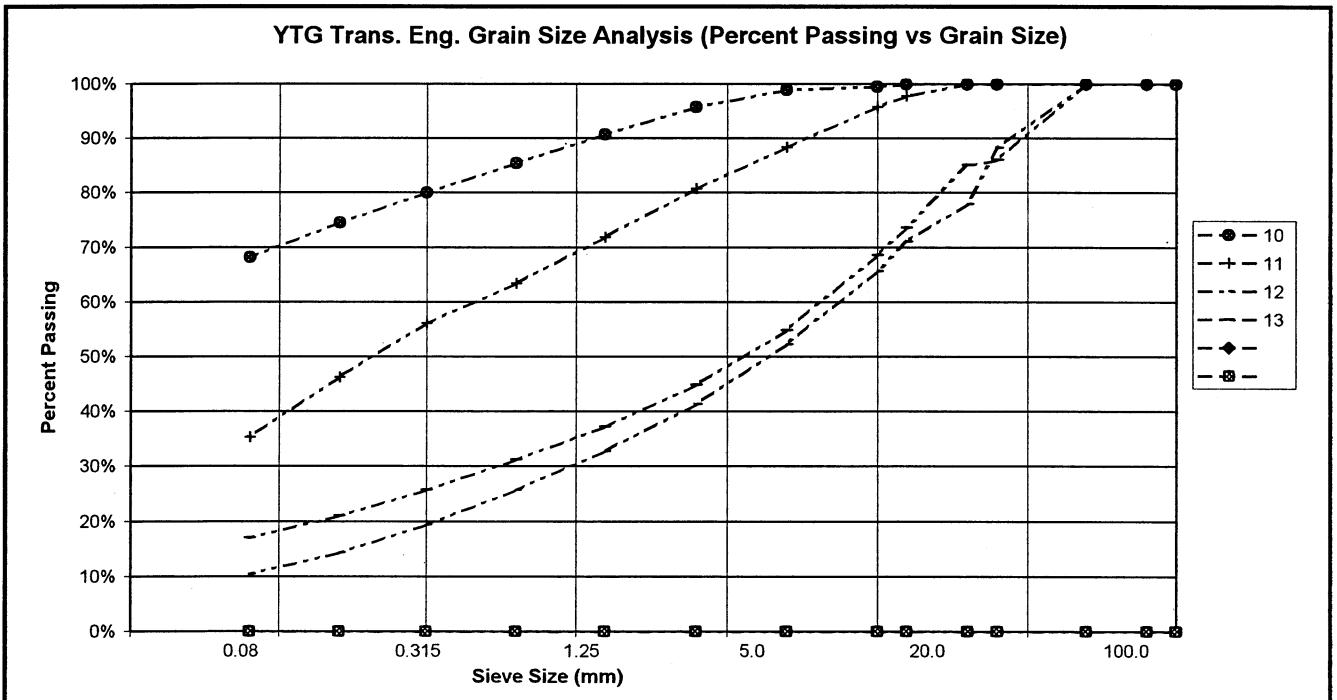


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+160 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1294

DATE COMP: 2000/04/26

FIELD NO:	10	11	12	13		
LAB NO:	315	316	317	318		
DEPTH:	0.2-0.4	1.2-1.5	2.7-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	88%	86%		
20.0	100%	100%	78%	85%		
12.5	100%	98%	71%	74%		
10.0	99%	96%	66%	69%		
5.0	99%	88%	52%	55%		
2.5	96%	81%	41%	45%		
1.25	91%	72%	33%	37%		
0.630	85%	63%	26%	31%		
0.315	80%	56%	19%	26%		
0.160	75%	46%	14%	21%		
0.080	68%	35%	10%	17%		
M.C.(%)	20%	10%	2%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	1	12	48	45		
% SAND:	31	53	42	38		
% FINES:	68	35	10	17		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		

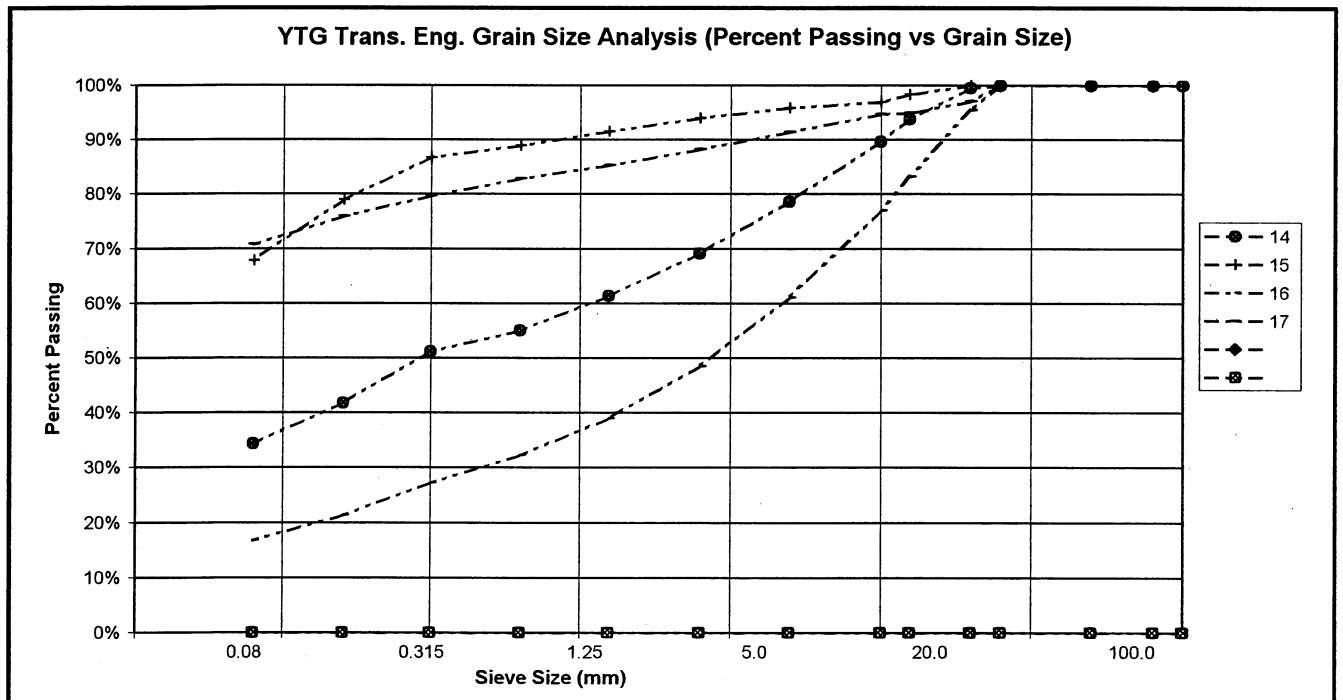


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+200 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1295

DATE COMP: 2000/04/26

FIELD NO:	14	15	16	17		
LAB NO:	319	320	321	322		
DEPTH:	0.8-1.0	1.2-1.4	2.6-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	95%	97%		
12.5	94%	98%	83%	95%		
10.0	90%	97%	77%	95%		
5.0	79%	96%	61%	91%		
2.5	69%	94%	48%	88%		
1.25	61%	92%	39%	85%		
0.630	55%	89%	32%	83%		
0.315	51%	87%	27%	80%		
0.160	42%	79%	21%	76%		
0.080	34%	68%	17%	71%		
M.C.(%)	21%	43%	7%	33%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	21	4	39	9		
% SAND:	44	28	44	21		
% FINES:	34	68	17	71		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)		

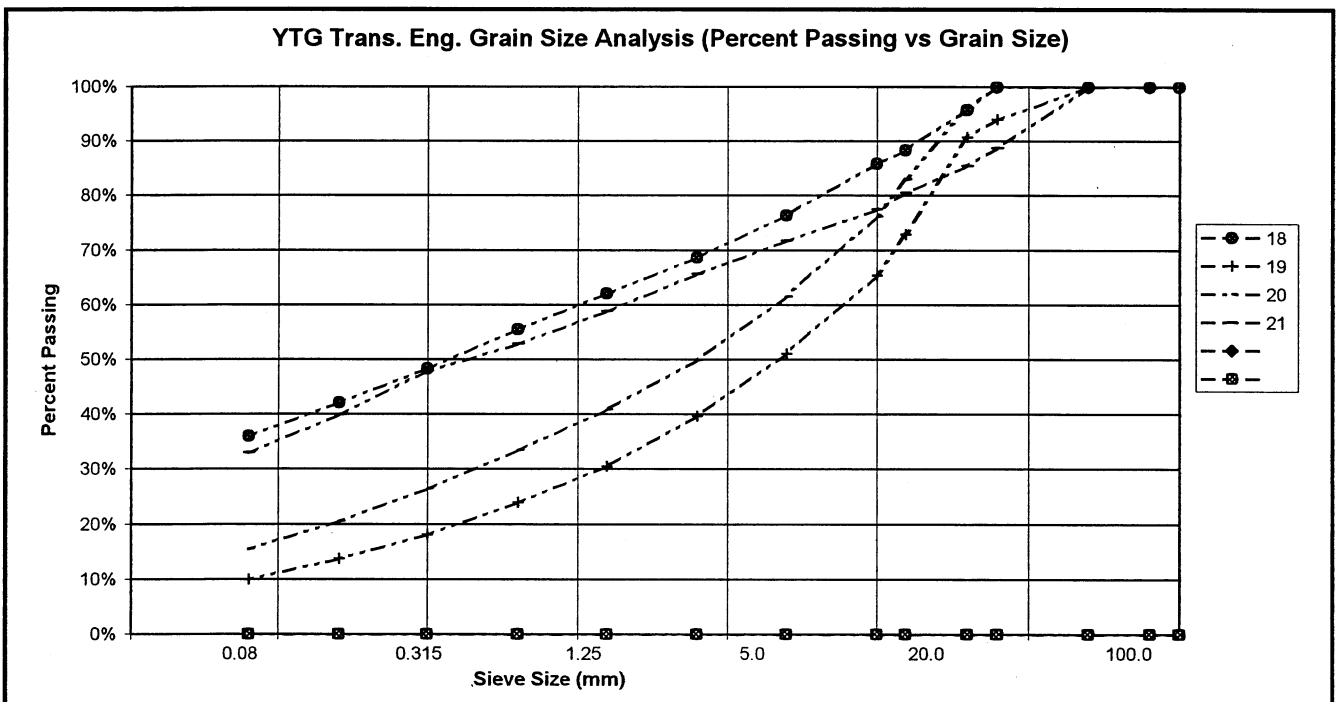


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+275 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1296

DATE COMP: 2000/04/26

FIELD NO:	18	19	20	21		
LAB NO:	323	324	325	326		
DEPTH:	0.7-1.0	1.4-1.8	2.7-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	94%	100%	89%		
20.0	96%	91%	96%	85%		
12.5	88%	73%	83%	81%		
10.0	86%	65%	76%	77%		
5.0	76%	51%	62%	72%		
2.5	69%	40%	50%	66%		
1.25	62%	31%	41%	59%		
0.630	56%	24%	33%	53%		
0.315	48%	18%	26%	48%		
0.160	42%	14%	21%	40%		
0.080	36%	10%	16%	33%		
M.C.(%):	19%	3%	3%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	24	49	38	28		
% SAND:	40	41	46	39		
% FINES:	36	10	16	33		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

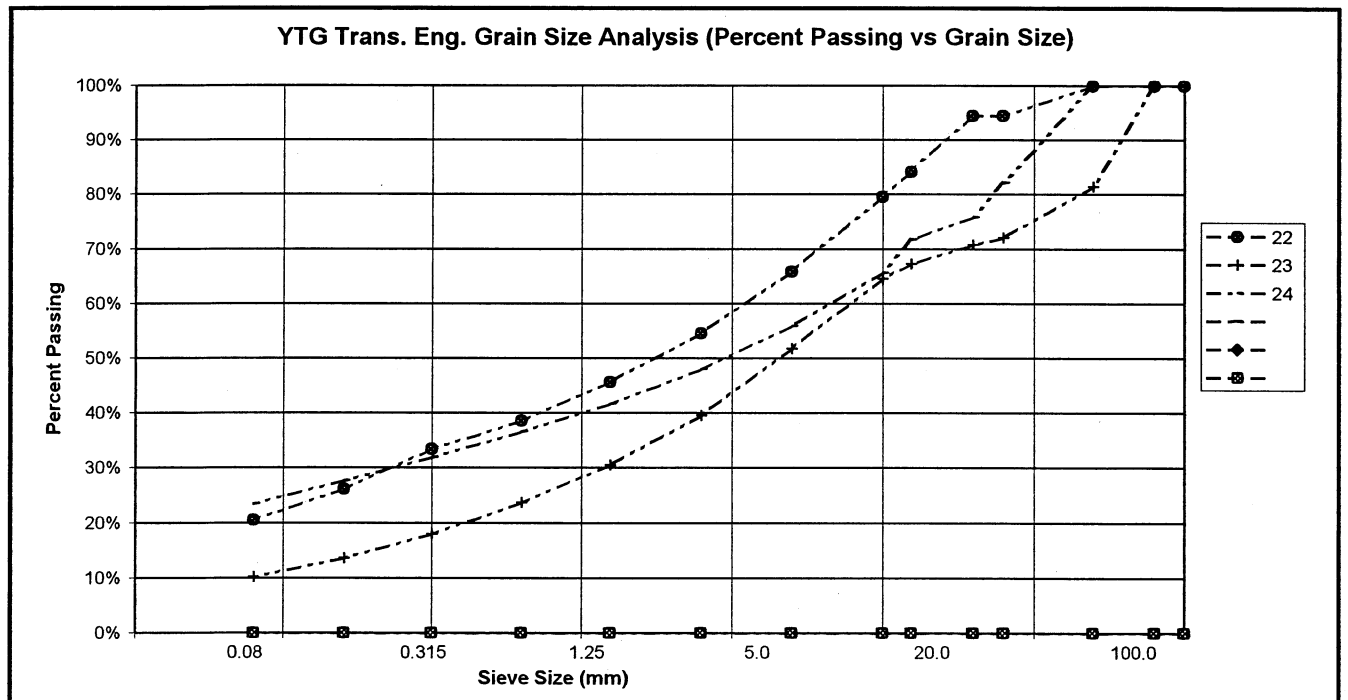


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+375 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1297

DATE COMP: 2000/04/26

FIELD NO:	22	23	24		
LAB NO:	327	328	329		
DEPTH:	0.8-1.0	2.8-3.0	4.0-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	81%	100%		
25.0	95%	72%	82%		
20.0	95%	71%	76%		
12.5	84%	67%	72%		
10.0	80%	65%	66%		
5.0	66%	52%	56%		
2.5	55%	40%	48%		
1.25	46%	30%	42%		
0.630	39%	24%	37%		
0.315	33%	18%	32%		
0.160	26%	14%	28%		
0.080	21%	10%	23%		
M.C.(%)	5%	2%	6%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	34	48	44		
% SAND:	45	42	32		
% FINES:	21	10	23		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)		

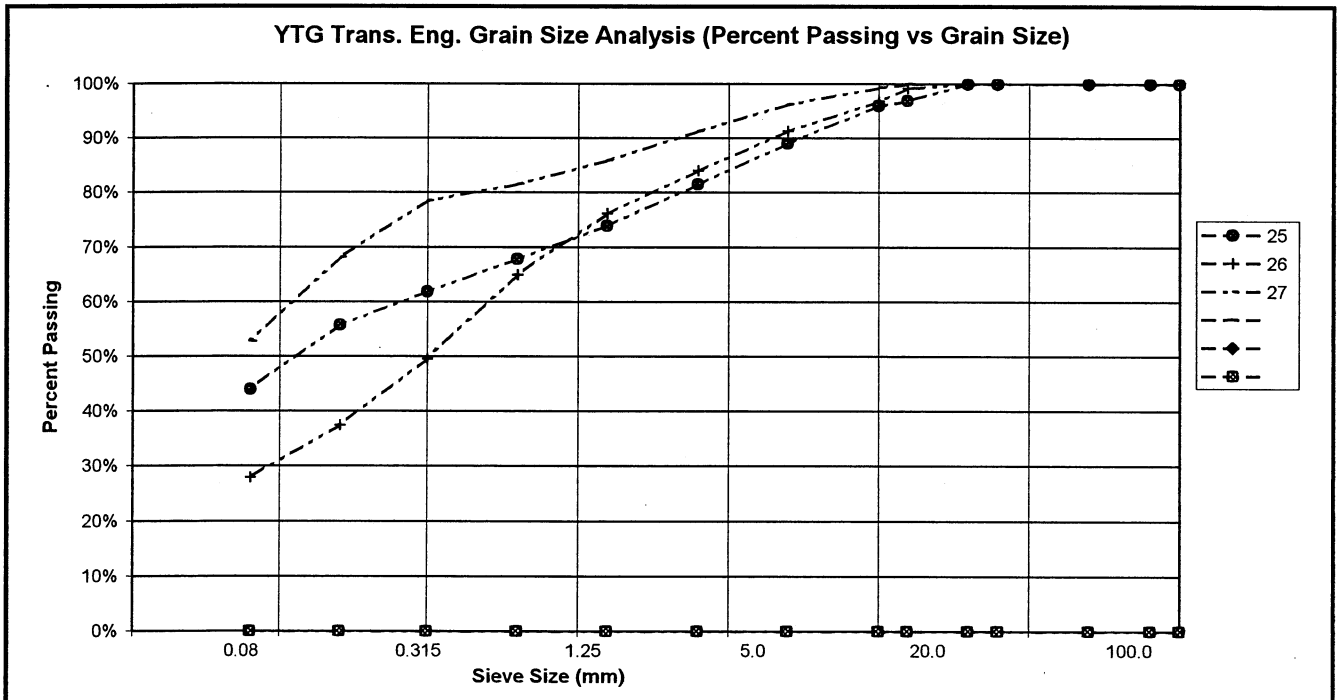


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+475 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1298

DATE COMP: 2000/04/26

FIELD NO:	25	26	27		
LAB NO:	330	331	332		
DEPTH:	0.8-1.0	2.5-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	100%		
12.5	97%	99%	100%		
10.0	96%	97%	99%		
5.0	89%	91%	96%		
2.5	82%	84%	91%		
1.25	74%	76%	86%		
0.630	68%	65%	82%		
0.315	62%	50%	79%		
0.160	56%	37%	68%		
0.080	44%	28%	53%		
M.C.(%)	12%	11%	22%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	11	9	4		
% SAND:	45	63	44		
% FINES:	44	28	53		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SANDY SILT (ML)		

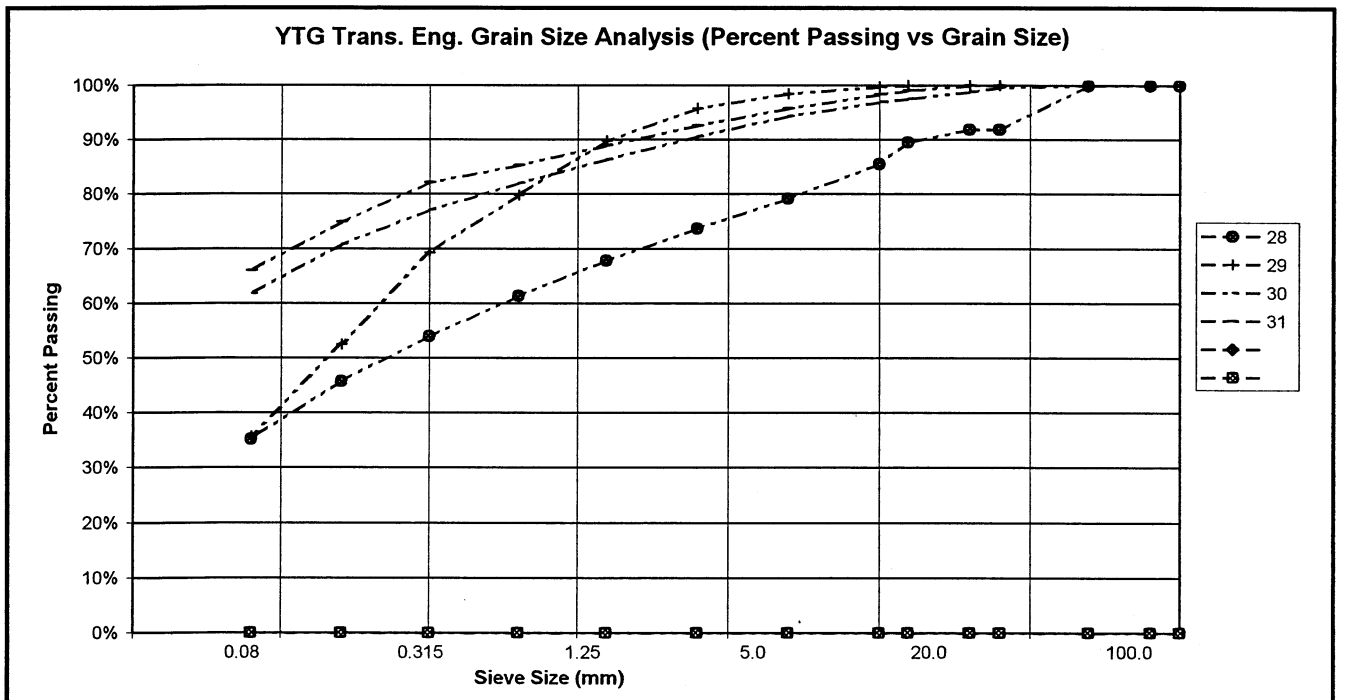


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+525 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1299

DATE COMP: 2000/04/26

FIELD NO:	28	29	30	31		
LAB NO:	333	334	335	336		
DEPTH:	0.8-1.0	1.4-1.6	2.6-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	92%	100%	100%	100%		
20.0	92%	100%	99%	100%		
12.5	90%	100%	98%	99%		
10.0	86%	100%	97%	98%		
5.0	79%	98%	94%	96%		
2.5	74%	96%	91%	93%		
1.25	68%	90%	86%	89%		
0.630	61%	80%	82%	85%		
0.315	54%	69%	77%	82%		
0.160	46%	52%	71%	75%		
0.080	35%	36%	62%	66%		
M.C.(%)	14%	9%	53%	24%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	21	2	6	4		
% SAND:	44	63	33	30		
% FINES:	35	36	62	66		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SANDY SILT (ML)	SANDY SILT (ML)		

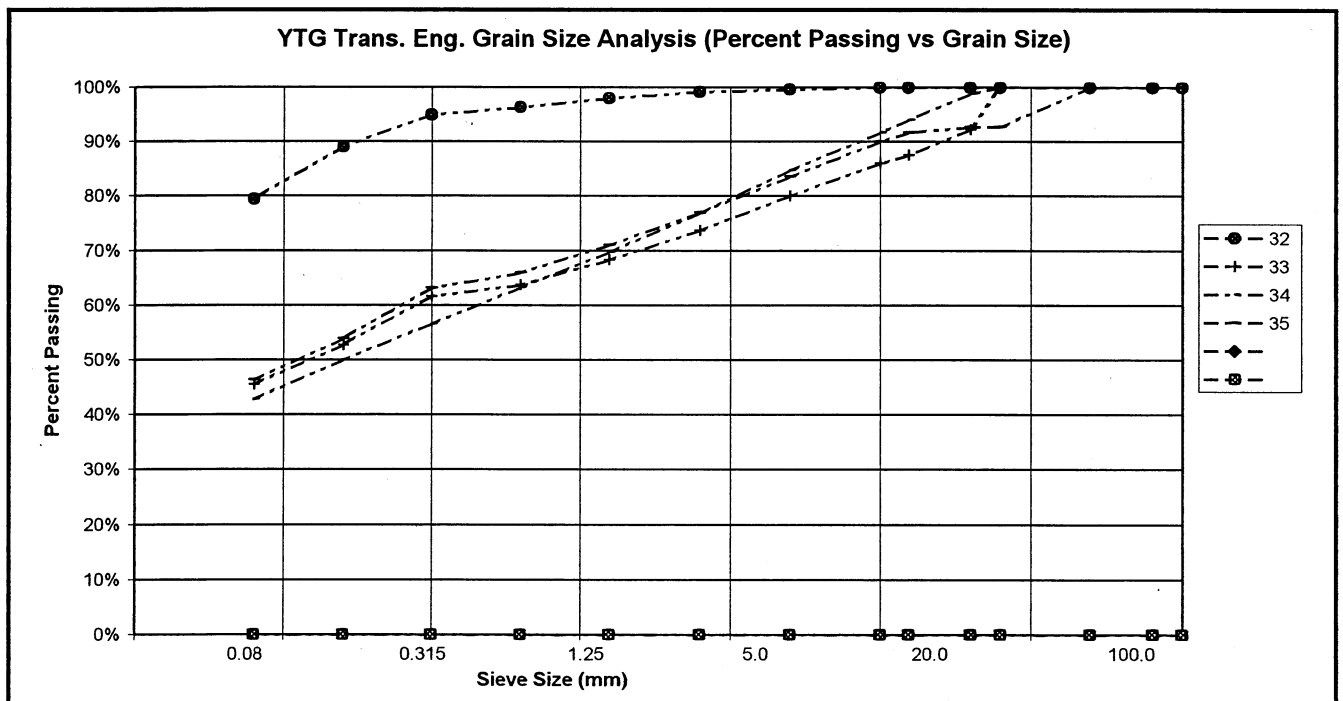


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+625 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1300

DATE COMP: 2000/04/26

FIELD NO:	32	33	34	35		
LAB NO:	337	338	339	340		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.5-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	93%		
20.0	100%	92%	99%	93%		
12.5	100%	88%	94%	92%		
10.0	100%	86%	92%	90%		
5.0	100%	80%	85%	84%		
2.5	99%	74%	77%	77%		
1.25	98%	68%	70%	71%		
0.630	96%	64%	63%	66%		
0.315	95%	62%	57%	63%		
0.160	89%	53%	50%	54%		
0.080	79%	46%	43%	46%		
M.C.(%)	23%	11%	10%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	20	15	16		
% SAND:	20	34	42	37		
% FINES:	79	46	43	46		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

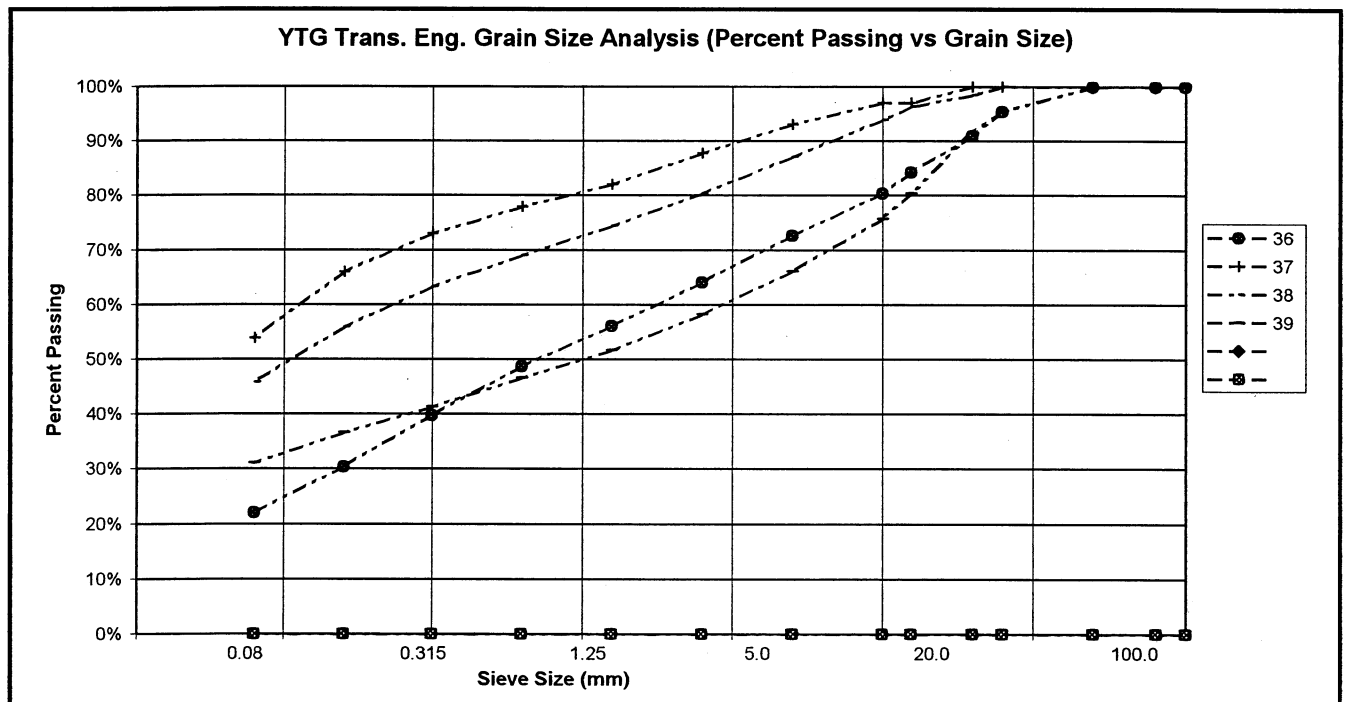


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+725 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1301

DATE COMP: 2000/04/26

FIELD NO:	36	37	38	39		
LAB NO:	341	342	343	344		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	95%	100%	100%	95%		
20.0	91%	100%	98%	92%		
12.5	84%	97%	96%	80%		
10.0	80%	97%	94%	76%		
5.0	73%	93%	87%	66%		
2.5	64%	88%	80%	58%		
1.25	56%	82%	74%	52%		
0.630	49%	78%	69%	47%		
0.315	40%	73%	63%	41%		
0.160	30%	66%	56%	37%		
0.080	22%	54%	46%	31%		
M.C.(%):	7%	19%	23%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	27	7	13	34		
% SAND:	51	39	41	35		
% FINES:	22	54	46	31		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

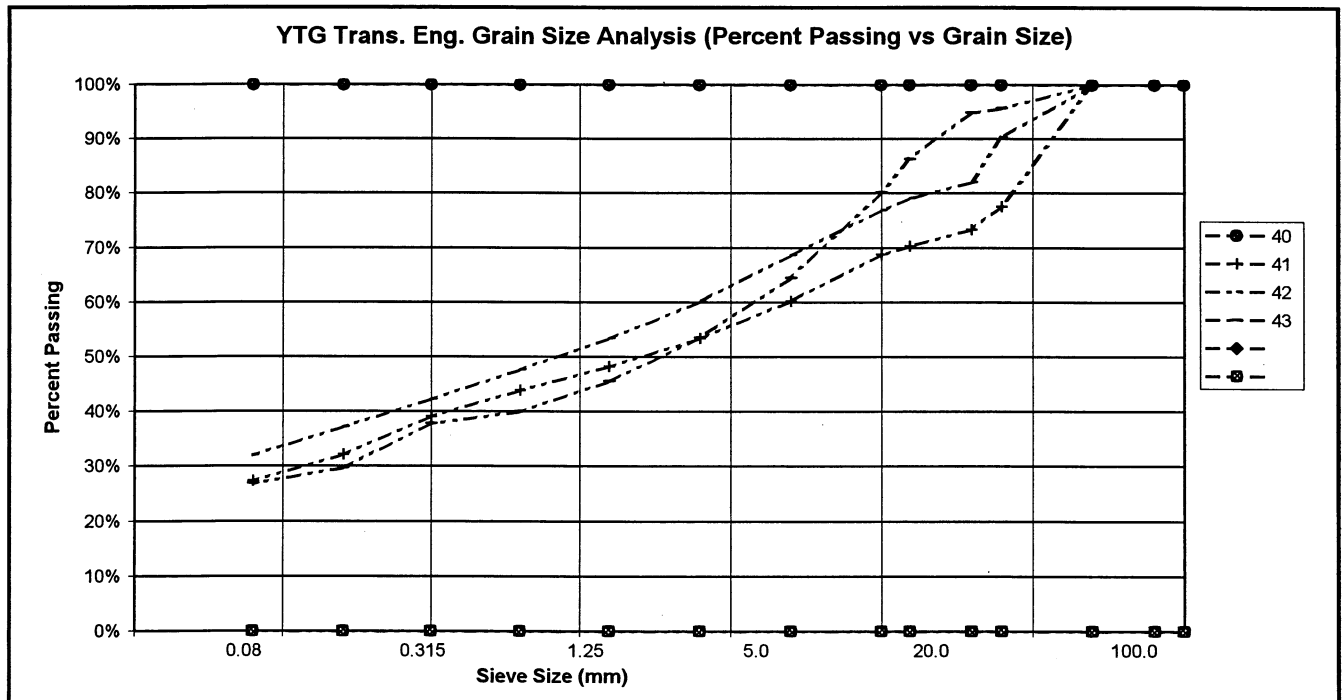


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+825 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1302

DATE COMP: 2000/04/26

FIELD NO:	40	41	42	43	
LAB NO:	LOST	346	347	348	
DEPTH:	0.8-1.0	1.6-1.8	2.8-3.0	4.0-4.7	
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	
25.0	100%	78%	90%	96%	
20.0	100%	73%	82%	95%	
12.5	100%	70%	79%	86%	
10.0	100%	69%	77%	80%	
5.0	100%	60%	69%	64%	
2.5	100%	53%	60%	54%	
1.25	100%	48%	53%	46%	
0.630	100%	44%	48%	40%	
0.315	100%	39%	42%	38%	
0.160	100%	32%	37%	30%	
0.080	100%	27%	32%	27%	
M.C.(%):	29%	19%	16%	15%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	
PLASTIC INDEX:	0.0	0.0	0.0	0.0	
% GRAVEL:	0	40	31	36	
% SAND:	0	33	37	38	
% FINES:	100	27	32	27	
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	

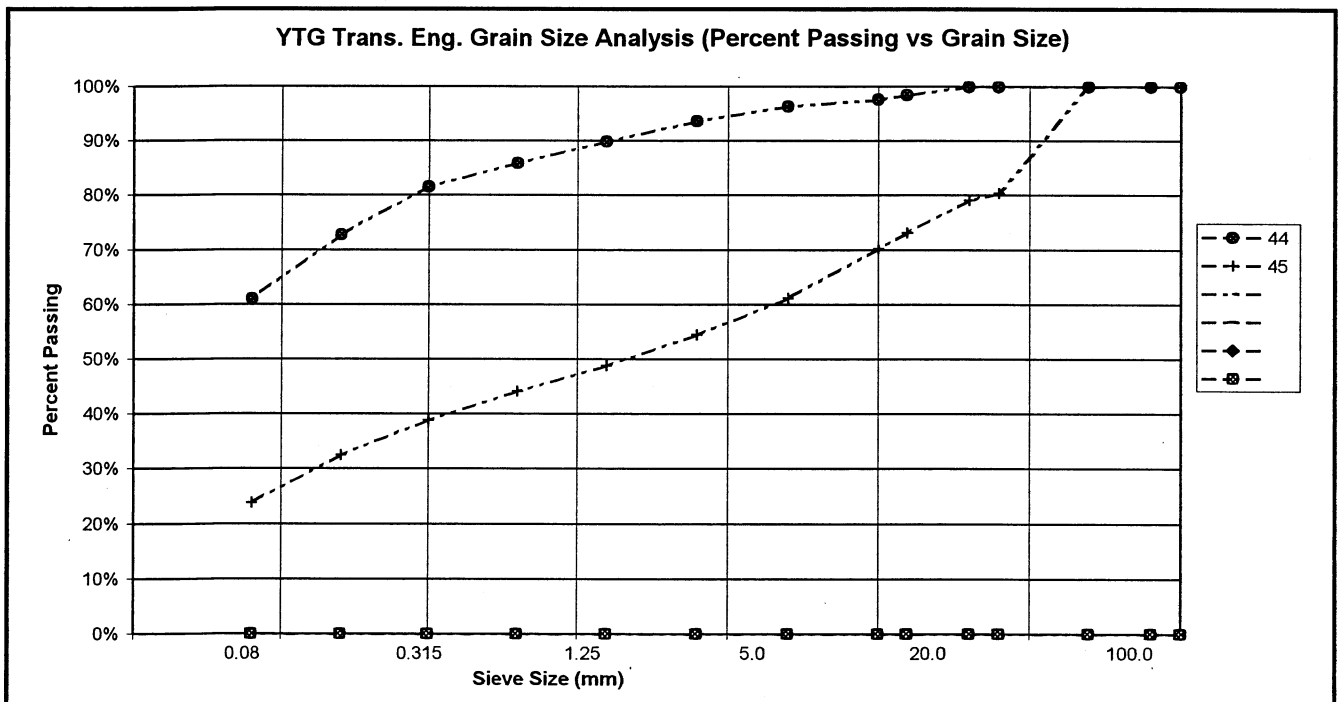


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+900 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1303

DATE COMP: 2000/04/26

FIELD NO:	44	45			
LAB NO:	349	350			
DEPTH:	0.8-1.0	2.6-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	80%			
20.0	100%	79%			
12.5	98%	73%			
10.0	98%	70%			
5.0	96%	61%			
2.5	94%	54%			
1.25	90%	49%			
0.630	86%	44%			
0.315	82%	39%			
0.160	73%	32%			
0.080	61%	24%			
M.C.(%):	44%	13%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	4	39			
% SAND:	35	37			
% FINES:	61	24			
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

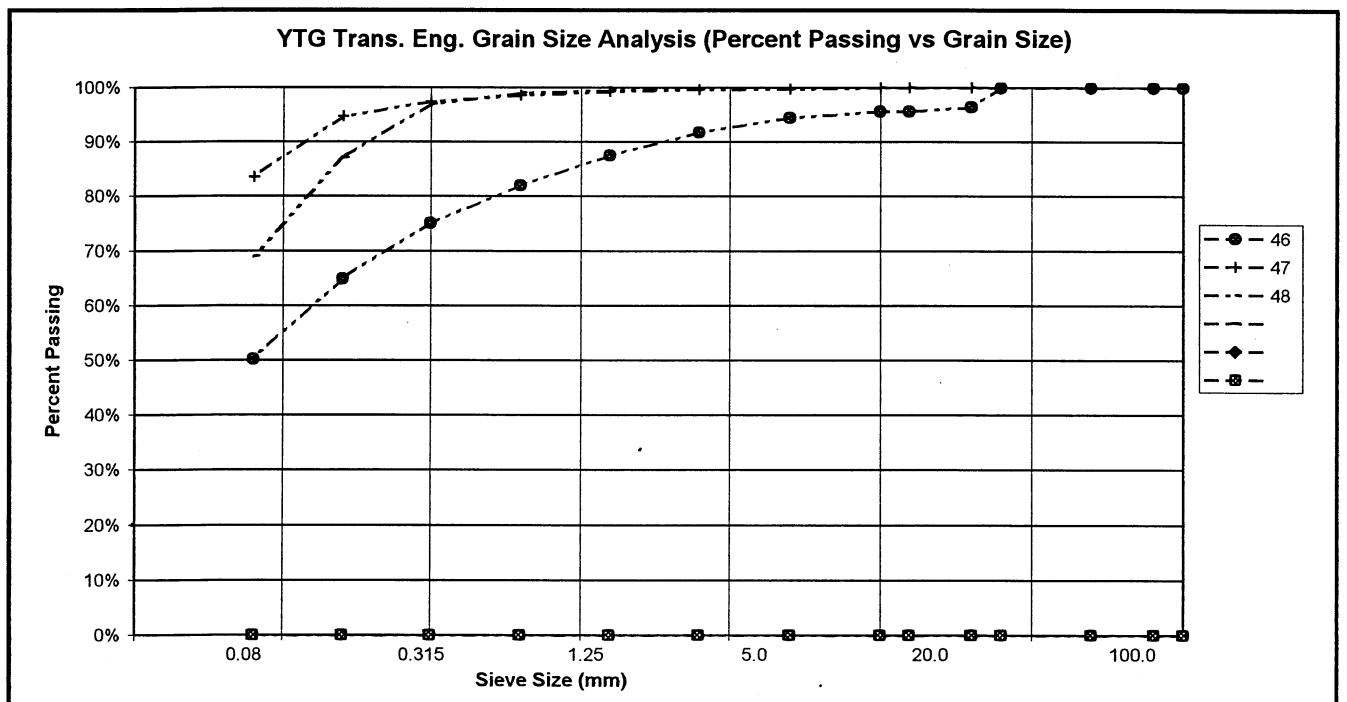


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+075 25M LT
 LOGGED BY: G.C.

HOLE No.: 541-1304

DATE COMP: 2000/04/26

FIELD NO:	46	47	48		
LAB NO:	351	352	353		
DEPTH:	0.8-1.0	2.0-2.5	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	96%	100%	100%		
12.5	96%	100%	100%		
10.0	96%	100%	100%		
5.0	95%	100%	100%		
2.5	92%	100%	100%		
1.25	88%	99%	100%		
0.630	82%	99%	99%		
0.315	75%	97%	97%		
0.160	65%	95%	87%		
0.080	50%	84%	69%		
M.C.(%)	36%	23%	19%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	5	0	0		
% SAND:	44	16	31		
% FINES:	50	84	69		
CLASSIFICATION	SANDY SILT (ML)	SILT WITH SAND (ML)	SANDY SILT (ML)		

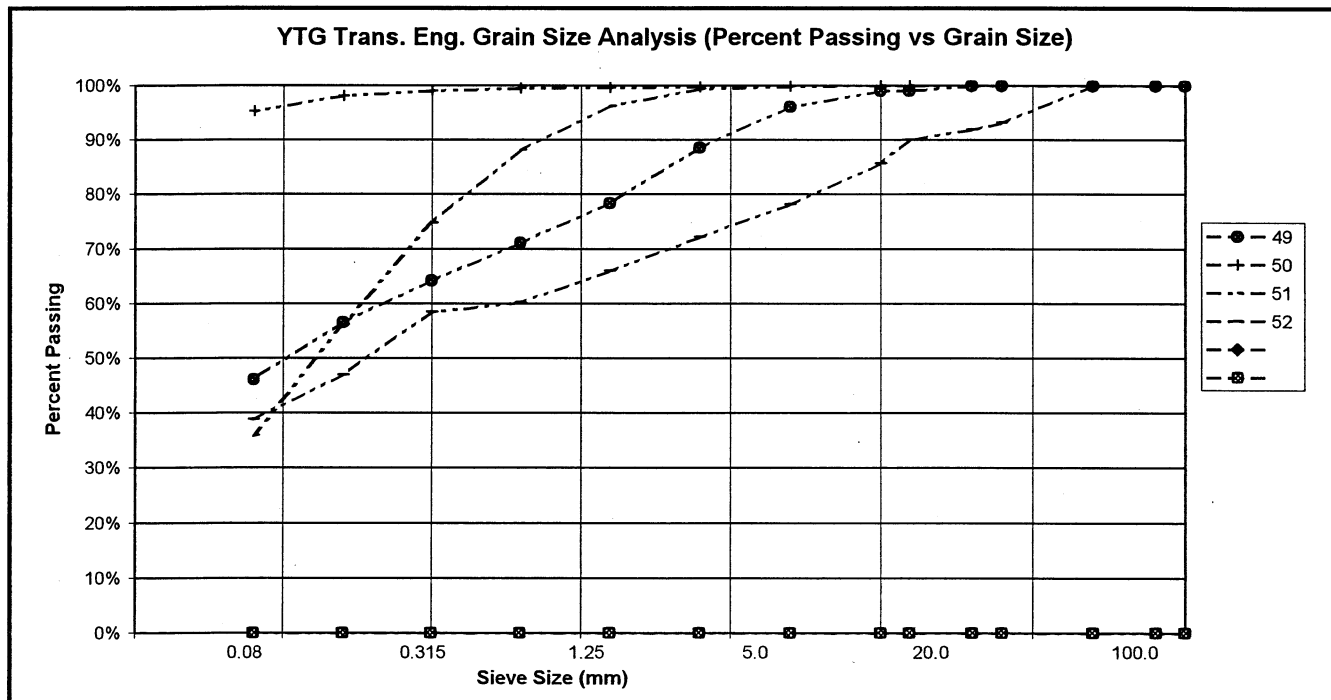


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+100 10M LT
 LOGGED BY: G.C.

HOLE No.: 541-1305

DATE COMP: 2000/04/26

FIELD NO:	49	50	51	52		
LAB NO:	354	355	356	357		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.2-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	93%		
20.0	100%	100%	100%	92%		
12.5	99%	100%	100%	90%		
10.0	99%	100%	100%	86%		
5.0	96%	100%	100%	78%		
2.5	89%	100%	99%	72%		
1.25	78%	100%	96%	66%		
0.630	71%	99%	88%	60%		
0.315	64%	99%	75%	58%		
0.160	57%	98%	56%	47%		
0.080	46%	95%	36%	39%		
M.C.(%)	21%	25%	18%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	4	0	0	22		
% SAND:	50	5	64	39		
% FINES:	46	95	36	39		
CLASSIFICATION	SILTY SAND (SM)	SILT (ML)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

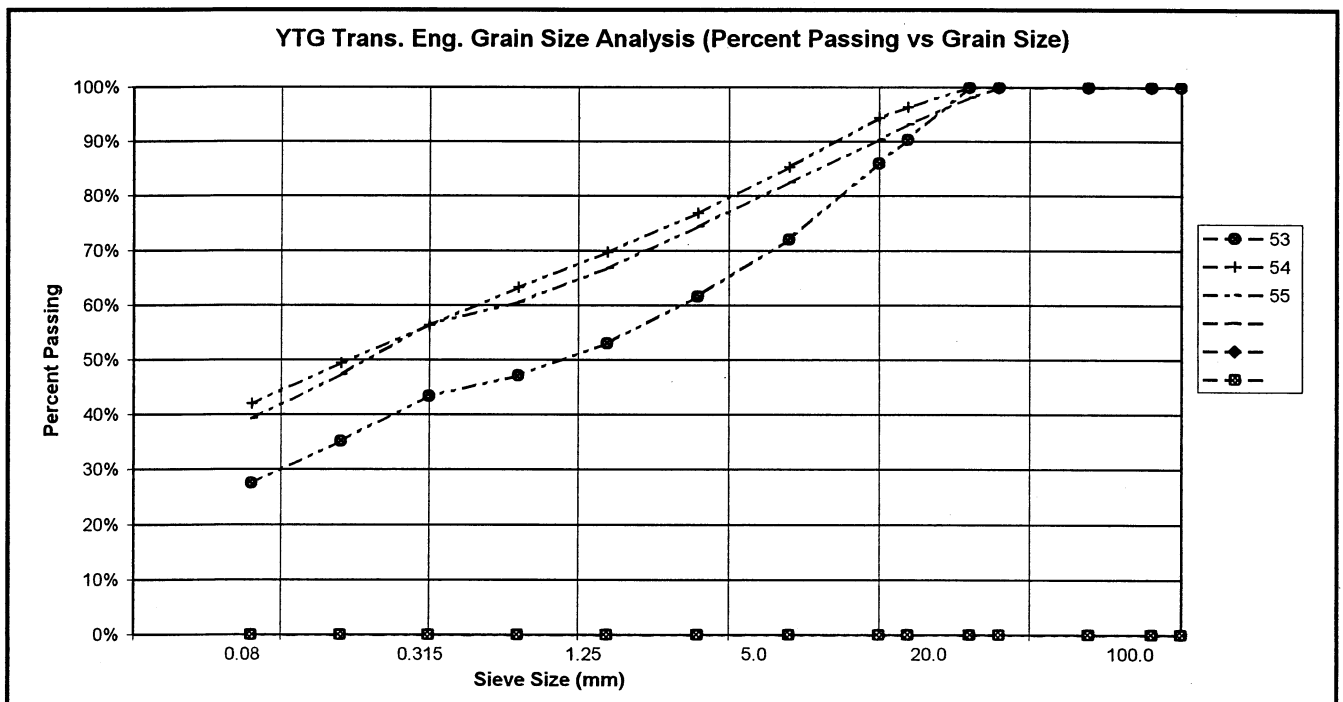


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+150 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1306

DATE COMP: 2000/04/27

FIELD NO:	53	54	55		
LAB NO:	358	359	360		
DEPTH:	1.3-1.5	2.5-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	98%		
12.5	90%	96%	93%		
10.0	86%	94%	90%		
5.0	72%	85%	83%		
2.5	62%	77%	74%		
1.25	53%	70%	67%		
0.630	47%	63%	61%		
0.315	43%	56%	57%		
0.160	35%	49%	47%		
0.080	28%	42%	39%		
M.C.(%)	19%	12%	10%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	28	15	17		
% SAND:	44	43	43		
% FINES:	28	42	39		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

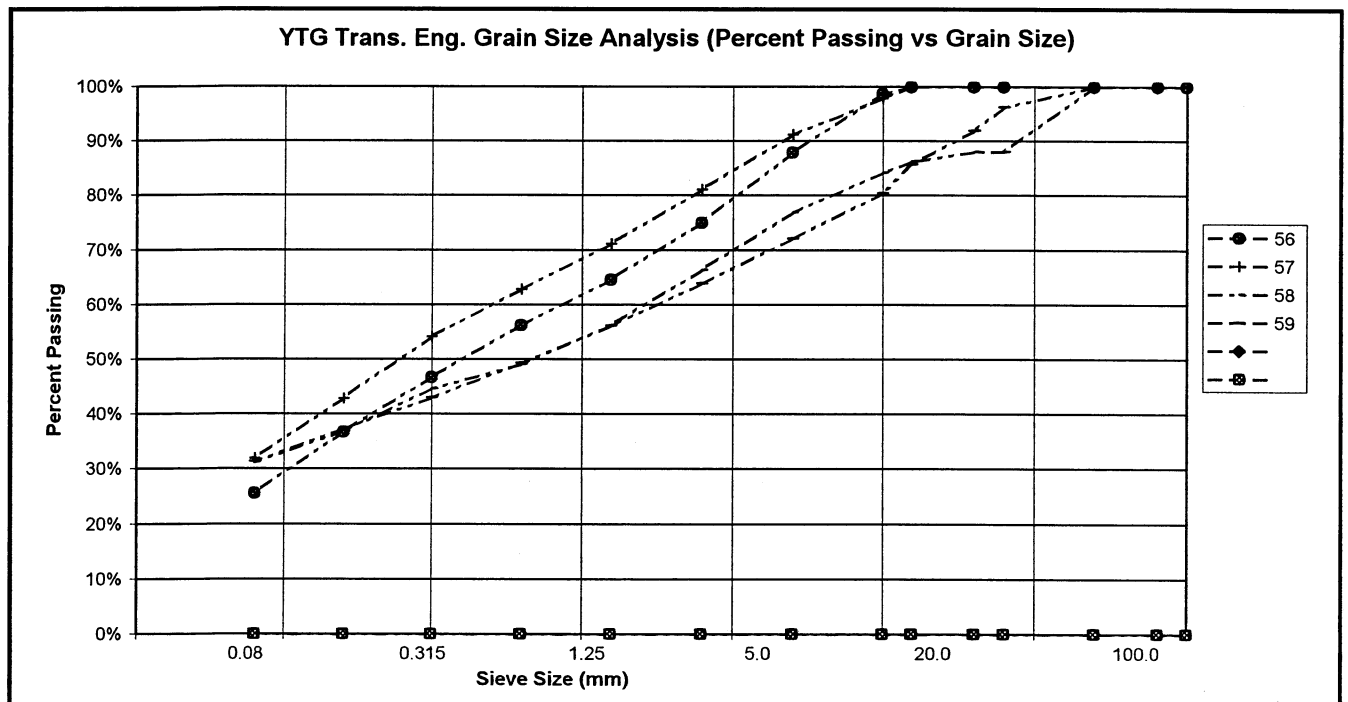


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+200 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1307

DATE COMP: 2000/04/27

FIELD NO:	56	57	58	59		
LAB NO:	361	362	363	364		
DEPTH:	0.8-1.0	1.6-2.0	2.8-3.0	4.5-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	88%	96%		
20.0	100%	100%	88%	92%		
12.5	100%	100%	86%	86%		
10.0	99%	98%	84%	80%		
5.0	88%	91%	77%	72%		
2.5	75%	81%	66%	64%		
1.25	65%	71%	56%	56%		
0.630	56%	63%	49%	49%		
0.315	47%	54%	45%	43%		
0.160	37%	43%	37%	37%		
0.080	26%	32%	31%	31%		
M.C.(%)	5%	9%	12%	9%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	12	9	23	28		
% SAND:	62	59	46	41		
% FINES:	26	32	31	31		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

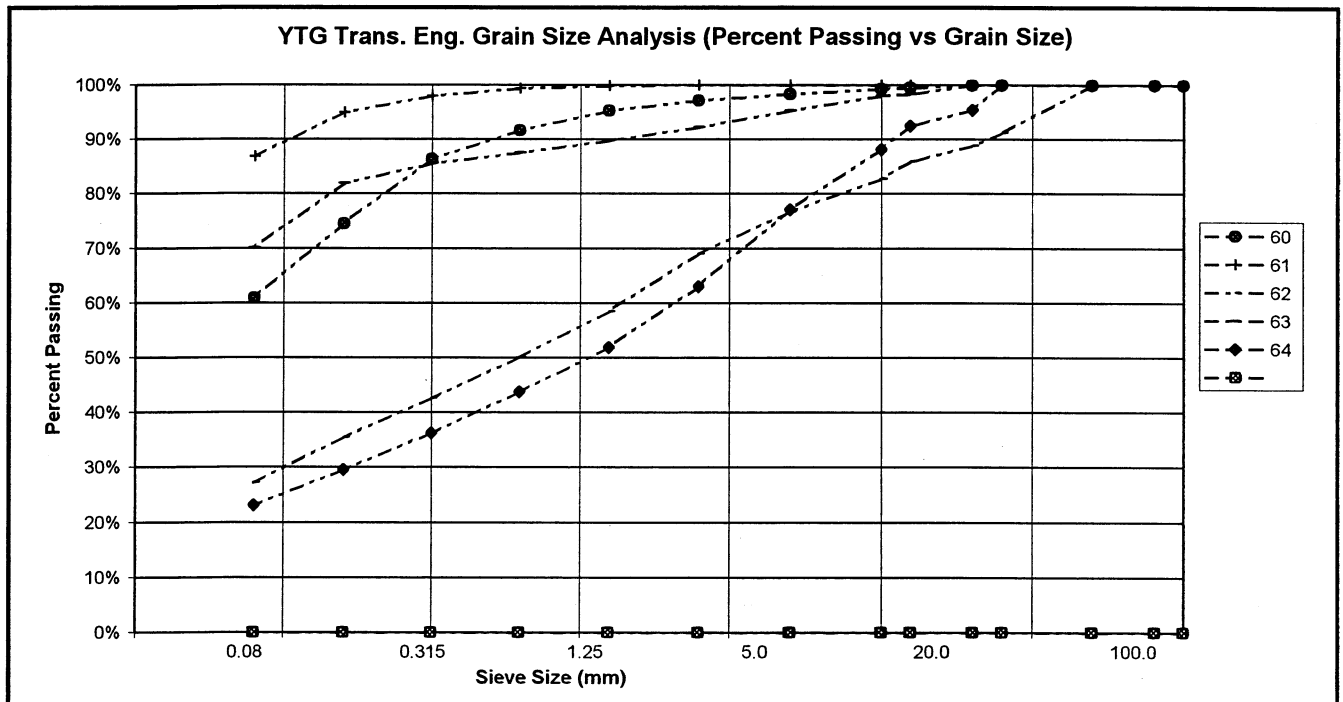


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+300 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1308

DATE COMP: 2000/04/27

FIELD NO:	60	61	62	63	64	
LAB NO:	365	366	367	368	369	
DEPTH:	1.0-1.5	1.8-2.0	2.8-3.0	3.8-4.0	5.4-5.8	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	100%	91%	100%	100%	
20.0	100%	100%	89%	100%	95%	
12.5	100%	100%	86%	98%	92%	
10.0	99%	100%	83%	98%	88%	
5.0	98%	100%	77%	95%	77%	
2.5	97%	100%	69%	92%	63%	
1.25	95%	100%	58%	90%	52%	
0.630	92%	99%	50%	88%	44%	
0.315	86%	98%	43%	86%	36%	
0.160	74%	95%	35%	82%	30%	
0.080	61%	87%	27%	70%	23%	
M.C.(%):	25%	53%	16%	30%	12%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	2	0	23	5	23	
% SAND:	37	13	50	25	54	
% FINES:	61	87	27	70	23	
CLASSIFICATION	SANDY SILT (ML)	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	

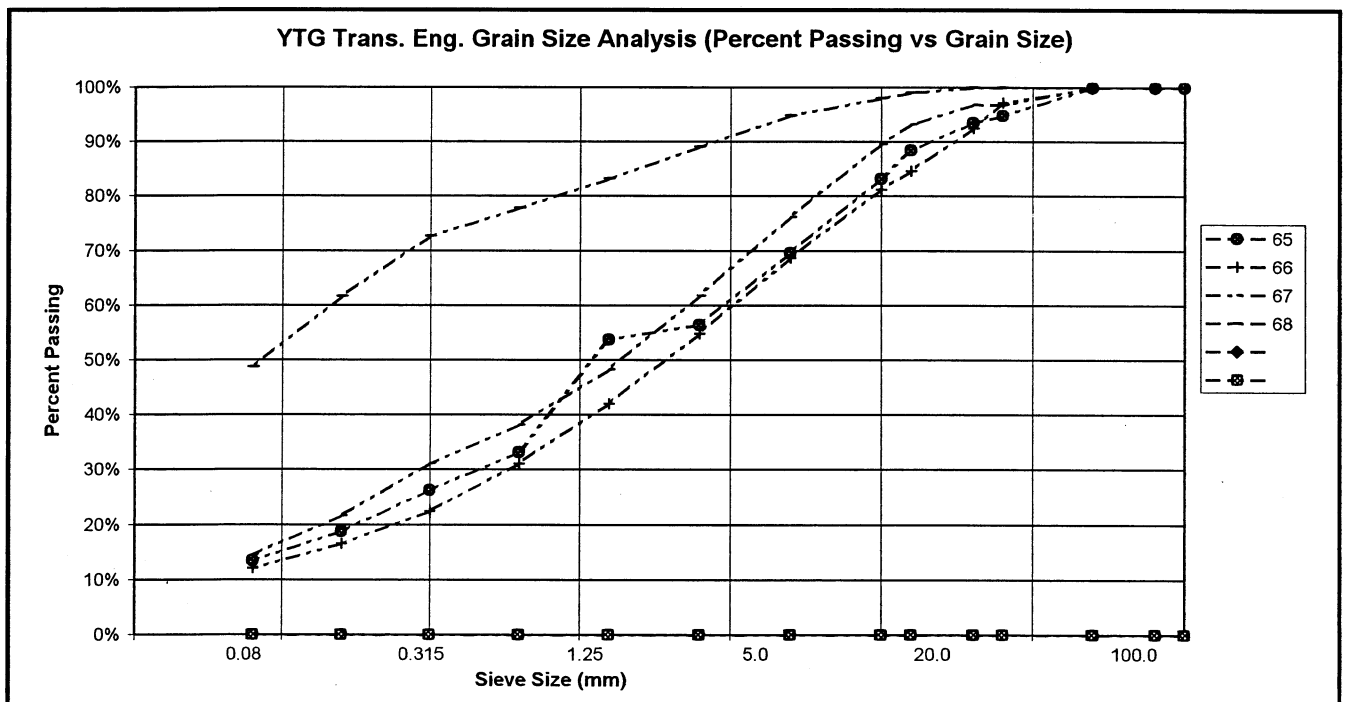


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+375 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1309

DATE COMP: 2000/04/27

FIELD NO:	65	66	67	68		
LAB NO:	370	371	372	373		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.2-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	95%	97%	97%	100%		
20.0	93%	92%	97%	100%		
12.5	88%	85%	93%	99%		
10.0	83%	81%	90%	98%		
5.0	70%	69%	76%	95%		
2.5	56%	55%	62%	89%		
1.25	54%	42%	48%	83%		
0.630	33%	31%	38%	78%		
0.315	26%	22%	31%	73%		
0.160	19%	17%	22%	62%		
0.080	13%	12%	15%	49%		
M.C.(%):	3%	4%	10%	25%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	30	31	24	5		
% SAND:	56	57	62	46		
% FINES:	13	12	15	49		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

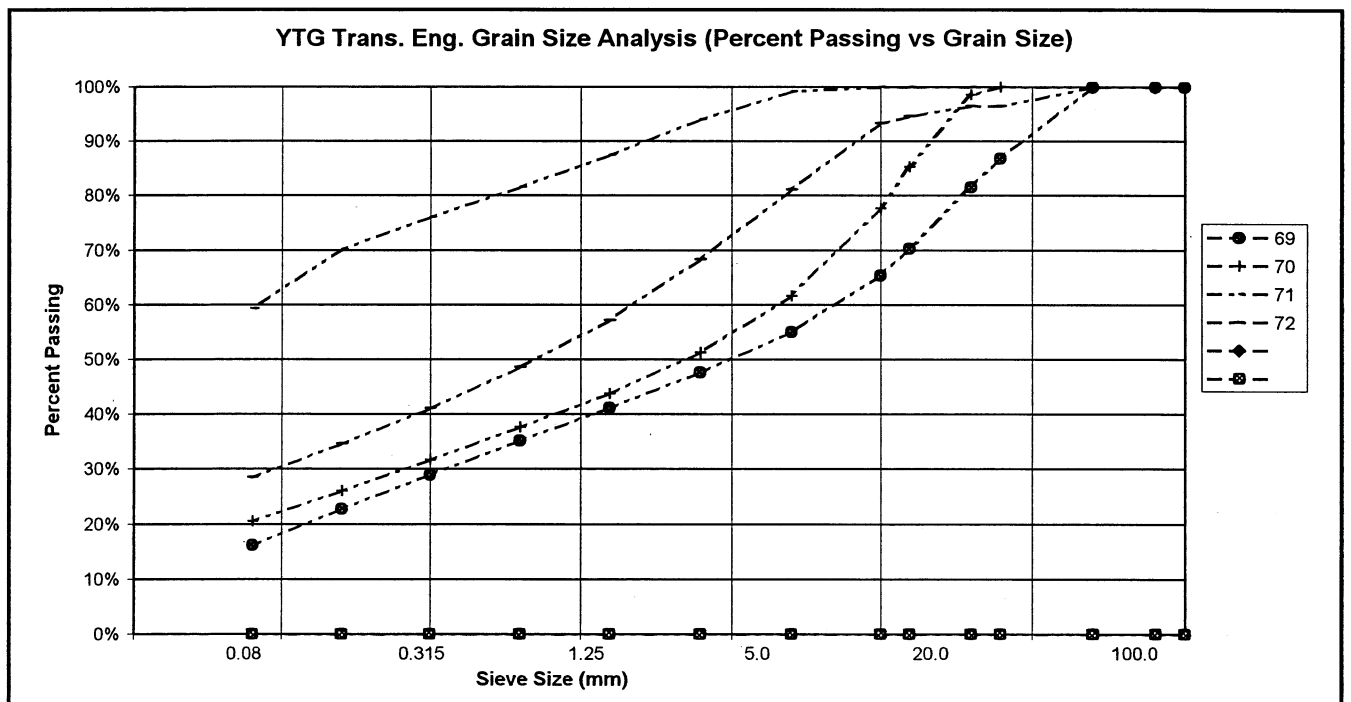


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+500 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1310

DATE COMP: 2000/04/27

FIELD NO:	69	70	71	72		
LAB NO:	374	375	376	377		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	87%	100%	100%	96%		
20.0	82%	99%	100%	96%		
12.5	70%	85%	100%	95%		
10.0	65%	78%	100%	93%		
5.0	55%	62%	99%	81%		
2.5	48%	51%	94%	68%		
1.25	41%	44%	87%	57%		
0.630	35%	38%	82%	49%		
0.315	29%	32%	76%	41%		
0.160	23%	26%	70%	35%		
0.080	16%	21%	59%	28%		
M.C.(%):	3%	7%	27%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	45	38	1	19		
% SAND:	39	41	40	53		
% FINES:	16	21	59	28		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

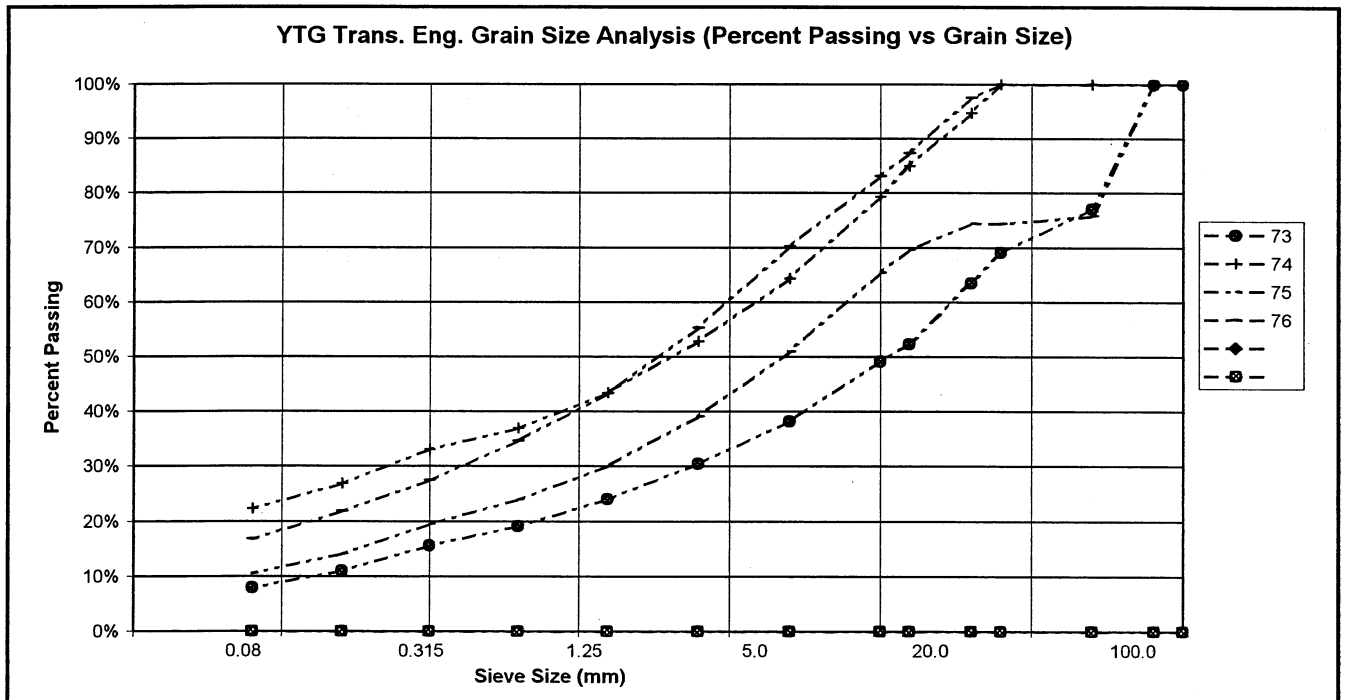


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+565 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1311

DATE COMP: 2000/04/27

FIELD NO:	73	74	75	76		
LAB NO:	378	379	380	381		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	77%	100%	76%	100%		
25.0	69%	100%	74%	100%		
20.0	63%	95%	74%	97%		
12.5	52%	85%	70%	87%		
10.0	49%	79%	65%	83%		
5.0	38%	64%	51%	70%		
2.5	31%	53%	39%	55%		
1.25	24%	43%	30%	43%		
0.630	19%	37%	24%	35%		
0.315	16%	33%	19%	27%		
0.160	11%	27%	14%	22%		
0.080	8%	22%	11%	17%		
M.C.(%):	4%	12%	9%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	62	36	49	30		
% SAND:	30	42	40	54		
% FINES:	8	22	11	17		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)		

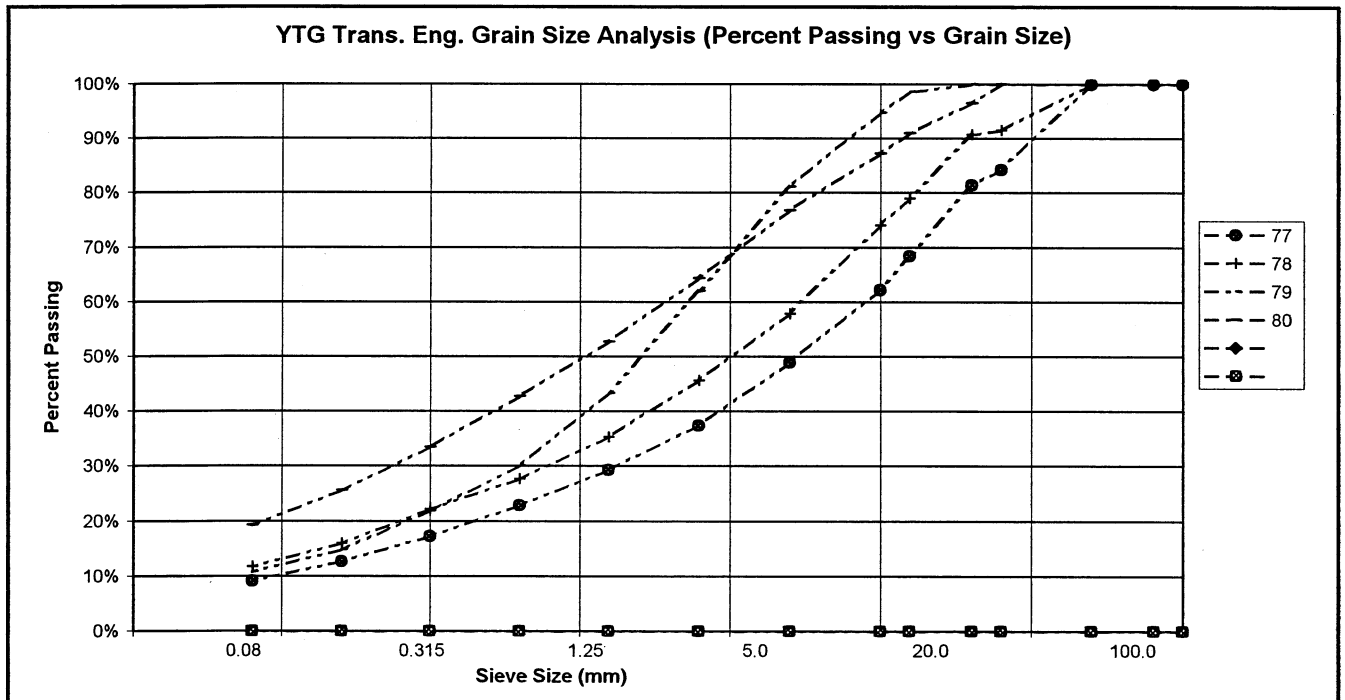


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+675 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1312

DATE COMP: 2000/04/27

FIELD NO:	77	78	79	80		
LAB NO:	382	383	384	385		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	84%	92%	100%	100%		
20.0	81%	91%	100%	96%		
12.5	68%	79%	99%	91%		
10.0	62%	74%	95%	87%		
5.0	49%	58%	81%	77%		
2.5	37%	46%	62%	64%		
1.25	29%	35%	43%	53%		
0.630	23%	28%	30%	43%		
0.315	17%	22%	22%	33%		
0.160	13%	16%	15%	26%		
0.080	9%	12%	11%	19%		
M.C.(%)	2%	2%	12%	12%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	51	42	19	23		
% SAND:	40	46	70	58		
% FINES:	9	12	11	19		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED SAND WITH SILT & GRAVEL (GW-GM)	WELL-GRADED SAND WITH SILT & GRAVEL (GW-GM)	SILTY SAND WITH GRAVEL (SM)		



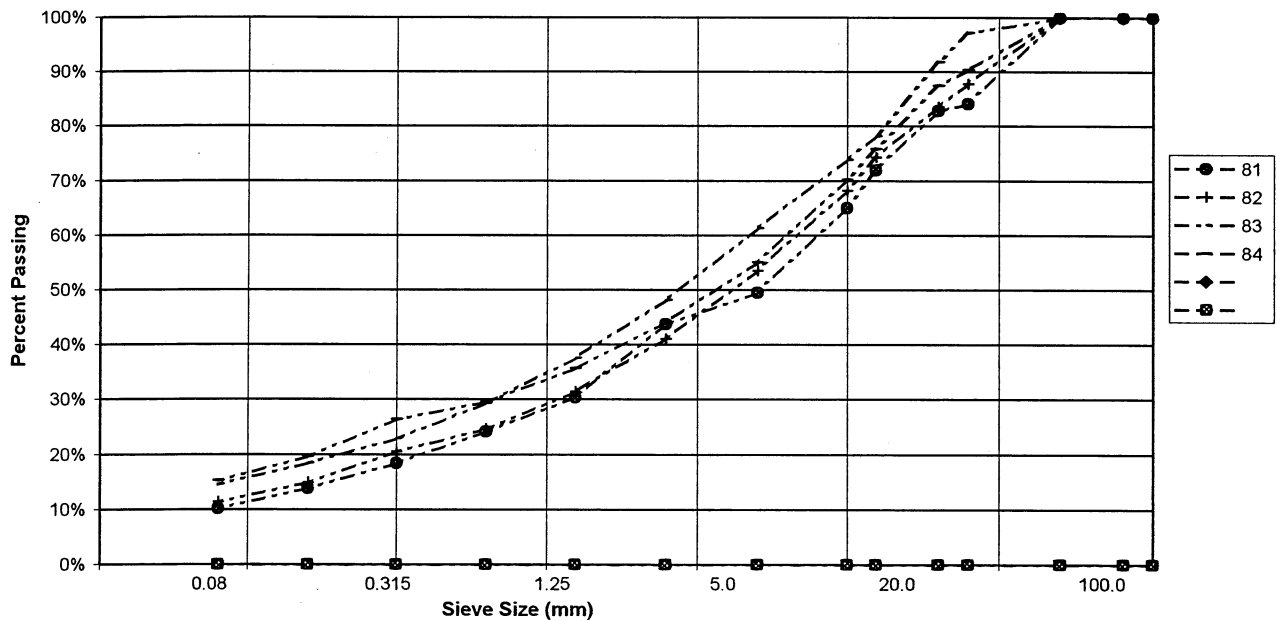
PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+725 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1313

DATE COMP: 2000/04/27

FIELD NO:	81	82	83	84		
LAB NO:	386	387	388	389		
DEPTH:	0.8-1.0	1.8-2.0	2.6-2.8	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	84%	88%	97%	90%		
20.0	83%	84%	92%	87%		
12.5	72%	74%	78%	76%		
10.0	65%	68%	74%	70%		
5.0	49%	53%	61%	55%		
2.5	44%	41%	48%	44%		
1.25	30%	31%	38%	36%		
0.630	24%	25%	29%	30%		
0.315	18%	21%	23%	26%		
0.160	14%	15%	18%	20%		
0.080	10%	11%	15%	15%		
M.C.(%):	2%	2%	2%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	51	47	39	45		
% SAND:	39	42	47	40		
% FINES:	10	11	15	15		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

YTG Trans. Eng. Grain Size Analysis (Percent Passing vs Grain Size)

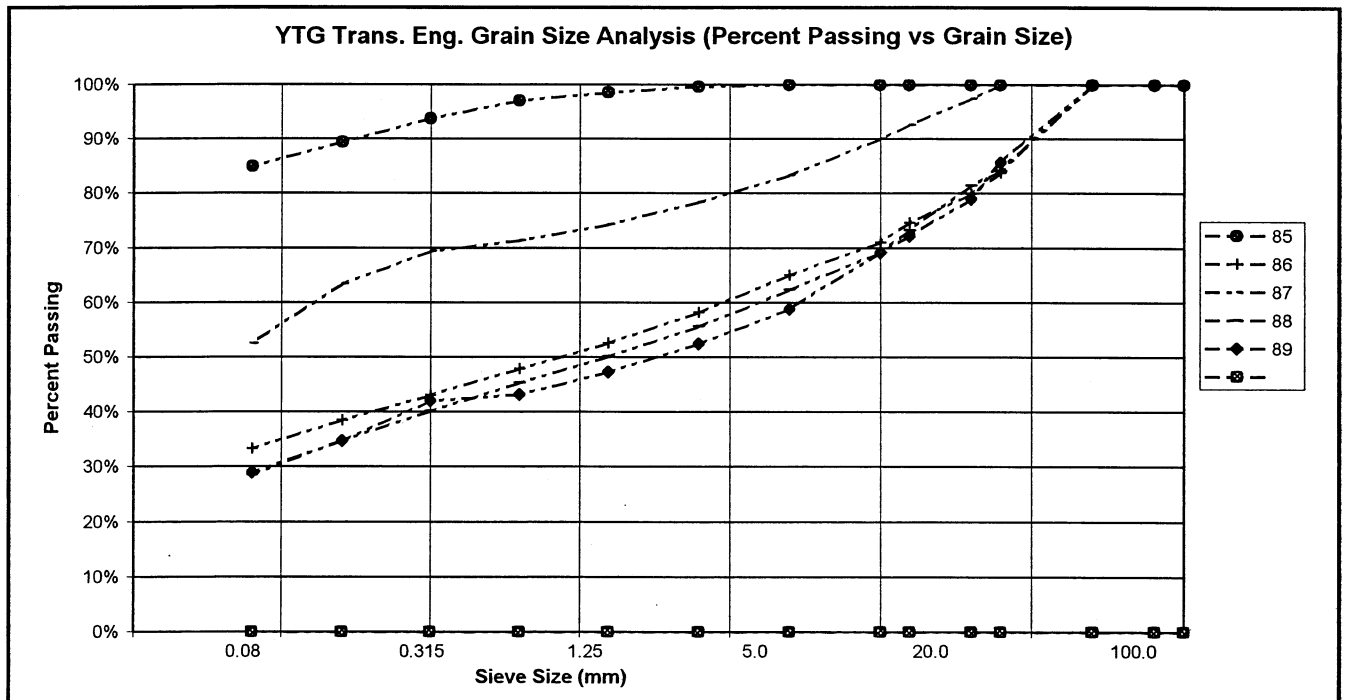


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+950 20M LT
 LOGGED BY: G.C.

HOLE No.: 541-1314

DATE COMP: 2000/04/27

FIELD NO:	85	86	87	88	89	
LAB NO:	390	391	392	393	394	
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	3.8-4.0	4.8-5.0	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	84%	100%	84%	86%	
20.0	100%	80%	97%	81%	79%	
12.5	100%	75%	93%	73%	72%	
10.0	100%	71%	90%	69%	69%	
5.0	100%	65%	83%	62%	59%	
2.5	100%	58%	78%	56%	53%	
1.25	99%	53%	74%	50%	47%	
0.630	97%	48%	71%	45%	43%	
0.315	94%	43%	69%	40%	42%	
0.160	89%	38%	63%	35%	35%	
0.080	85%	33%	52%	28%	29%	
M.C.(%):	97%	19%	19%	10%	10%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	0	35	17	38	41	
% SAND:	15	32	31	34	30	
% FINES:	85	33	52	28	29	
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SANDY SILT WITH GRAVEL (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)	

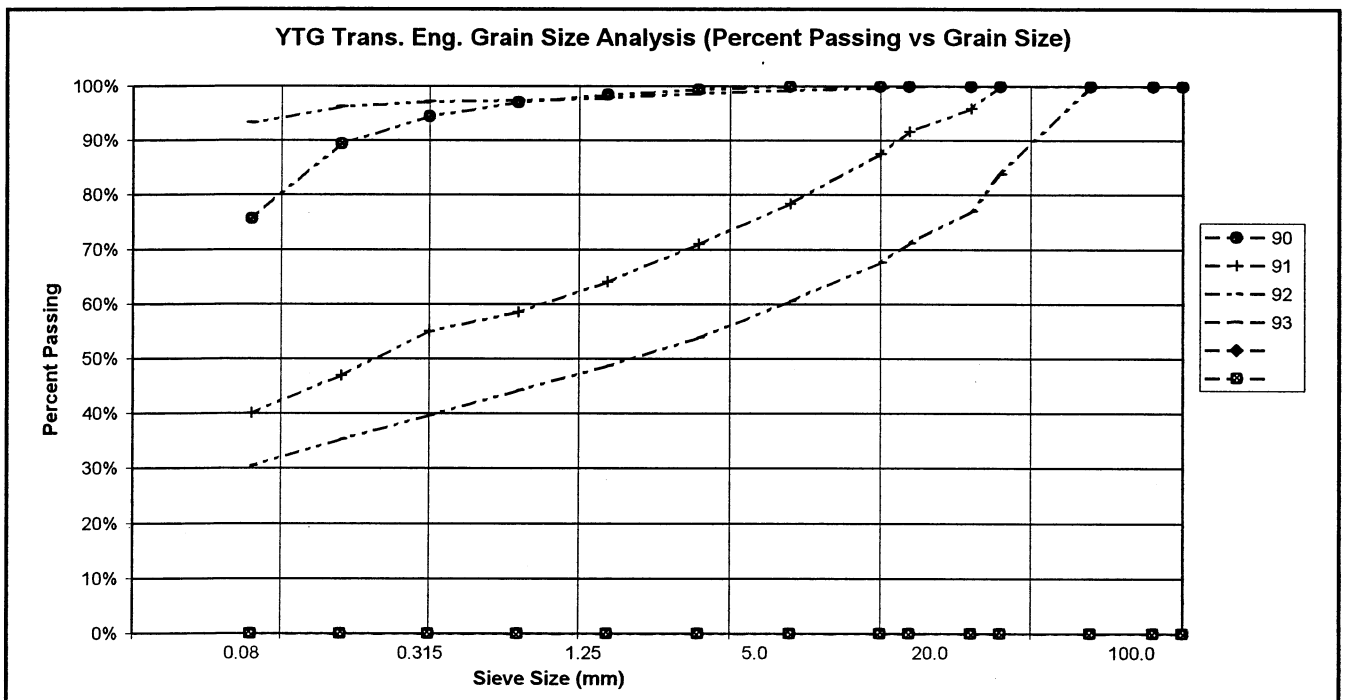


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+025 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1315

DATE COMP: 2000/04/27

FIELD NO:	90	91	92	93		
LAB NO:	395	396	397	398		
DEPTH:	1.0-1.3	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	84%	100%		
20.0	100%	96%	77%	100%		
12.5	100%	92%	71%	100%		
10.0	100%	88%	68%	100%		
5.0	100%	78%	61%	99%		
2.5	99%	71%	54%	99%		
1.25	98%	64%	49%	98%		
0.630	97%	59%	44%	97%		
0.315	94%	55%	40%	97%		
0.160	89%	47%	35%	96%		
0.080	76%	40%	31%	93%		
M.C.(%)	13%	12%	11%	22%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	22	39	1		
% SAND:	24	38	30	6		
% FINES:	76	40	31	93		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILT (ML)		

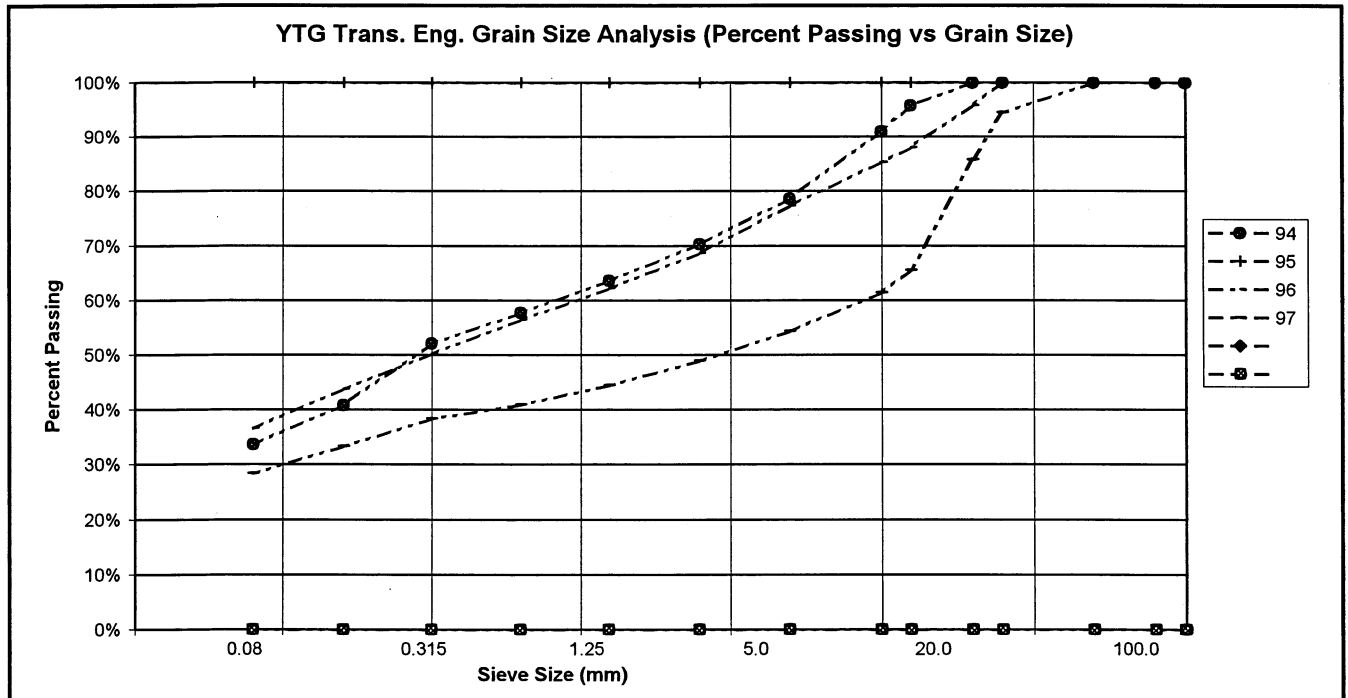


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+100 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1316

DATE COMP: 2000/04/28

FIELD NO:	94	95	96	97		
LAB NO:	399	LOST	401	402		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	94%		
20.0	100%	100%	96%	86%		
12.5	96%	100%	88%	66%		
10.0	91%	100%	85%	61%		
5.0	79%	100%	77%	54%		
2.5	70%	100%	69%	49%		
1.25	64%	100%	62%	44%		
0.630	58%	100%	56%	41%		
0.315	52%	100%	50%	38%		
0.160	41%	100%	44%	33%		
0.080	34%	100%	37%	28%		
M.C.(%)	6%	7%	9%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	21	0	23	46		
% SAND:	45	0	41	26		
% FINES:	34	100	37	28		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

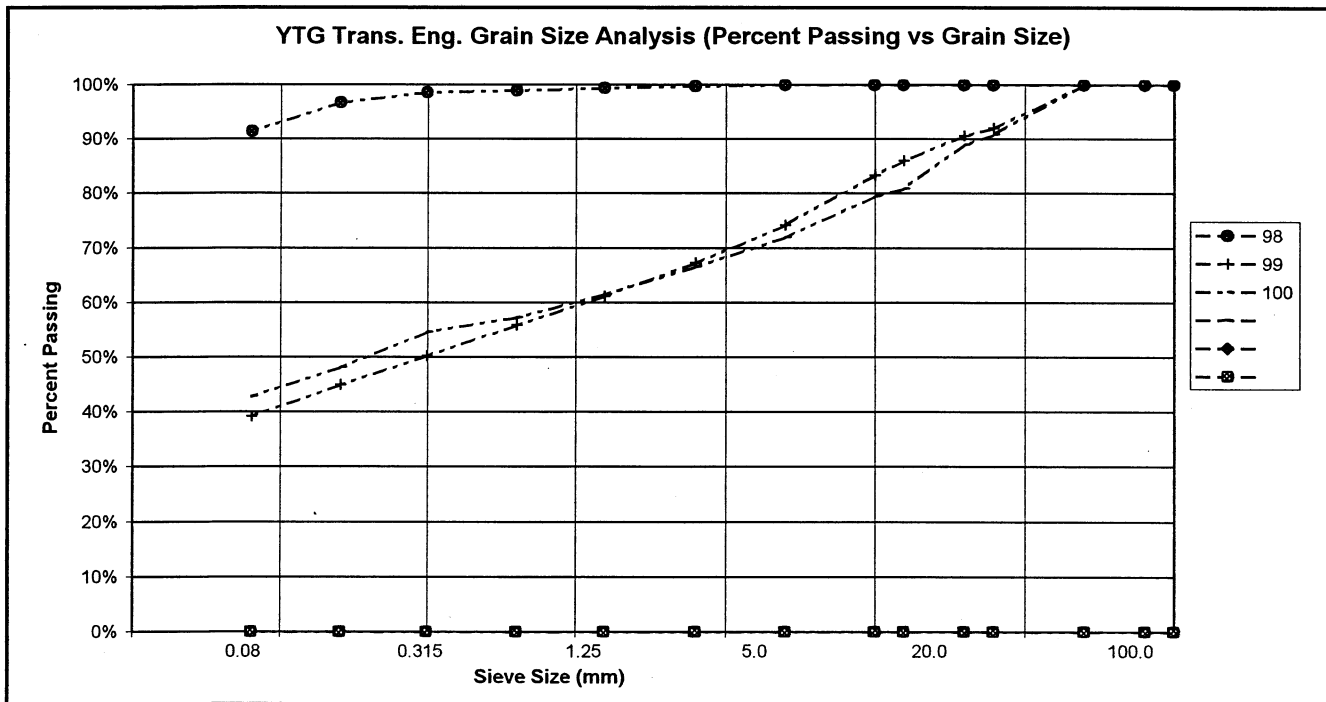


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+150 7M LT
 LOGGED BY: G.C.

HOLE No.: 541-1317

DATE COMP: 2000/04/28

FIELD NO:	98	99	100		
LAB NO:	403	404	405		
DEPTH:	1.0-1.3	2.4-2.6	4.5-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	92%	91%		
20.0	100%	91%	89%		
12.5	100%	86%	81%		
10.0	100%	83%	79%		
5.0	100%	74%	72%		
2.5	100%	67%	67%		
1.25	99%	61%	62%		
0.630	99%	56%	57%		
0.315	99%	50%	55%		
0.160	97%	45%	48%		
0.080	91%	39%	43%		
M.C.(%)	18%	9%	7%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	0	26	28		
% SAND:	9	35	29		
% FINES:	91	39	43		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

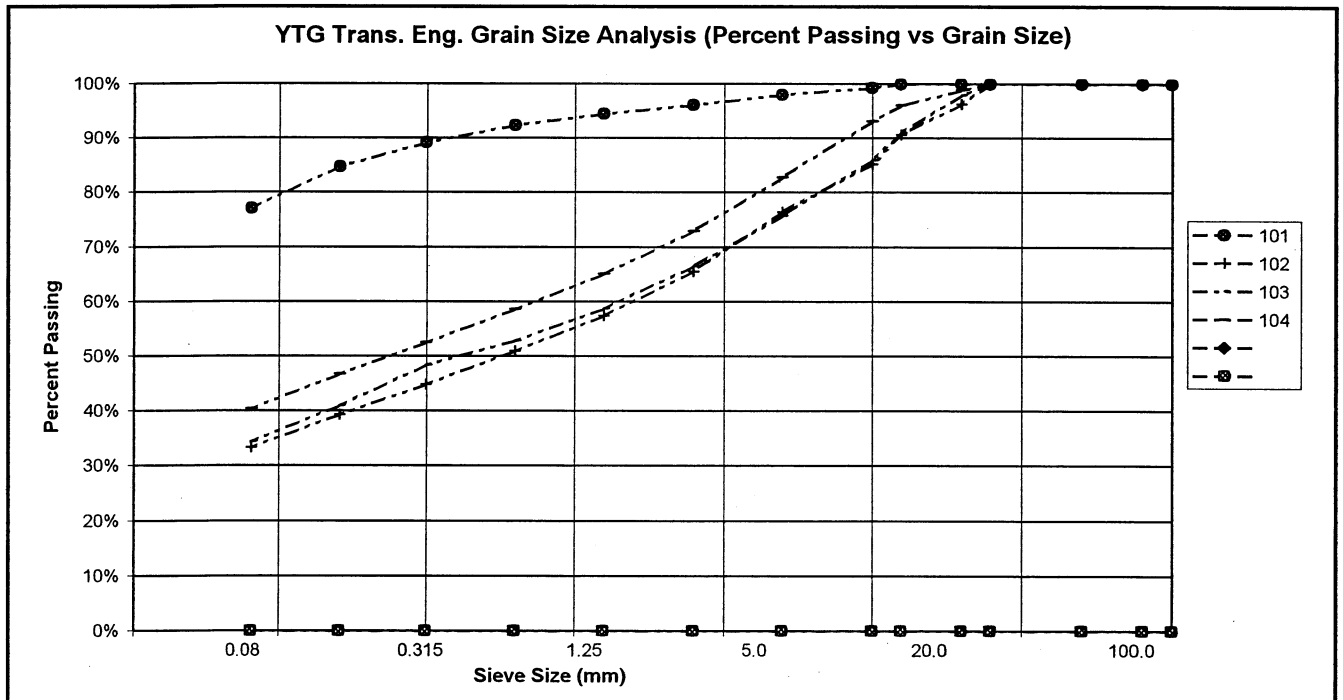


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+250 20M LT
 LOGGED BY: G.C.

HOLE No.: 541-1318

DATE COMP: 2000/04/28

FIELD NO:	101	102	103	104		
LAB NO:	406	407	408	409		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	96%	98%	99%		
12.5	100%	91%	91%	96%		
10.0	99%	85%	86%	93%		
5.0	98%	76%	76%	83%		
2.5	96%	65%	66%	73%		
1.25	94%	57%	59%	65%		
0.630	92%	51%	53%	59%		
0.315	89%	45%	48%	52%		
0.160	85%	39%	41%	47%		
0.080	77%	33%	34%	40%		
M.C.(%)	50%	17%	11%	12%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	2	24	24	17		
% SAND:	21	43	41	42		
% FINES:	77	33	34	40		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

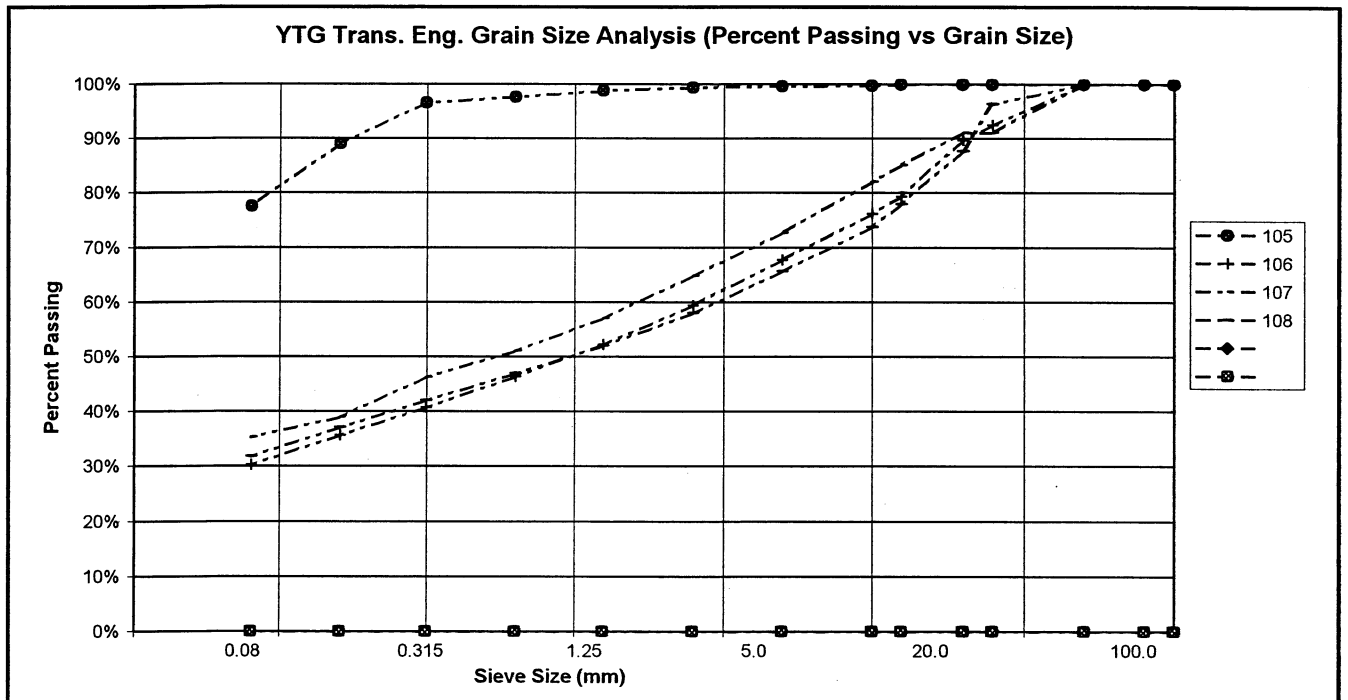


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+350 15M LT
 LOGGED BY: G.C.

HOLE No.: 541-1319

DATE COMP: 2000/04/28

FIELD NO:	105	106	107	108		
LAB NO:	410	411	412	413		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	92%	91%	96%		
20.0	100%	90%	91%	88%		
12.5	100%	79%	85%	78%		
10.0	100%	76%	82%	74%		
5.0	100%	68%	73%	66%		
2.5	99%	59%	65%	58%		
1.25	99%	52%	57%	52%		
0.630	98%	46%	51%	47%		
0.315	97%	41%	46%	42%		
0.160	89%	36%	39%	37%		
0.080	78%	30%	35%	32%		
M.C.(%)	24%	11%	13%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	32	27	34		
% SAND:	22	37	37	34		
% FINES:	78	30	35	32		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

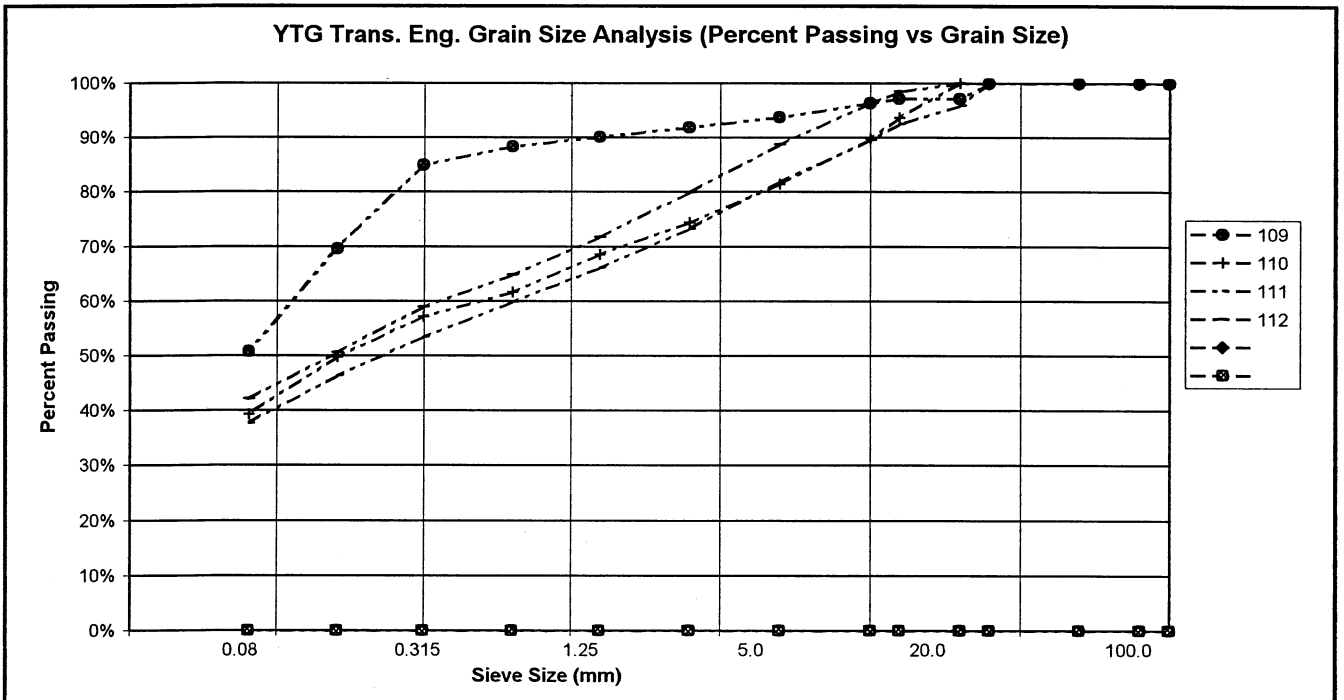


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+500 12M LT
 LOGGED BY: G.C.

HOLE No.: 541-1320

DATE COMP: 2000/04/28

FIELD NO:	109	110	111	112		
LAB NO:	414	415	416	417		
DEPTH:	1.3-1.5	2.5-2.8	3.6-4.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	97%	100%	96%	100%		
12.5	97%	94%	93%	98%		
10.0	96%	90%	90%	96%		
5.0	94%	81%	82%	89%		
2.5	92%	74%	73%	80%		
1.25	90%	69%	66%	72%		
0.630	88%	62%	60%	65%		
0.315	85%	57%	53%	59%		
0.160	70%	50%	46%	51%		
0.080	51%	39%	38%	42%		
M.C.(%)	23%	15%	13%	15%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	6	19	18	11		
% SAND:	43	42	44	47		
% FINES:	51	39	38	42		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

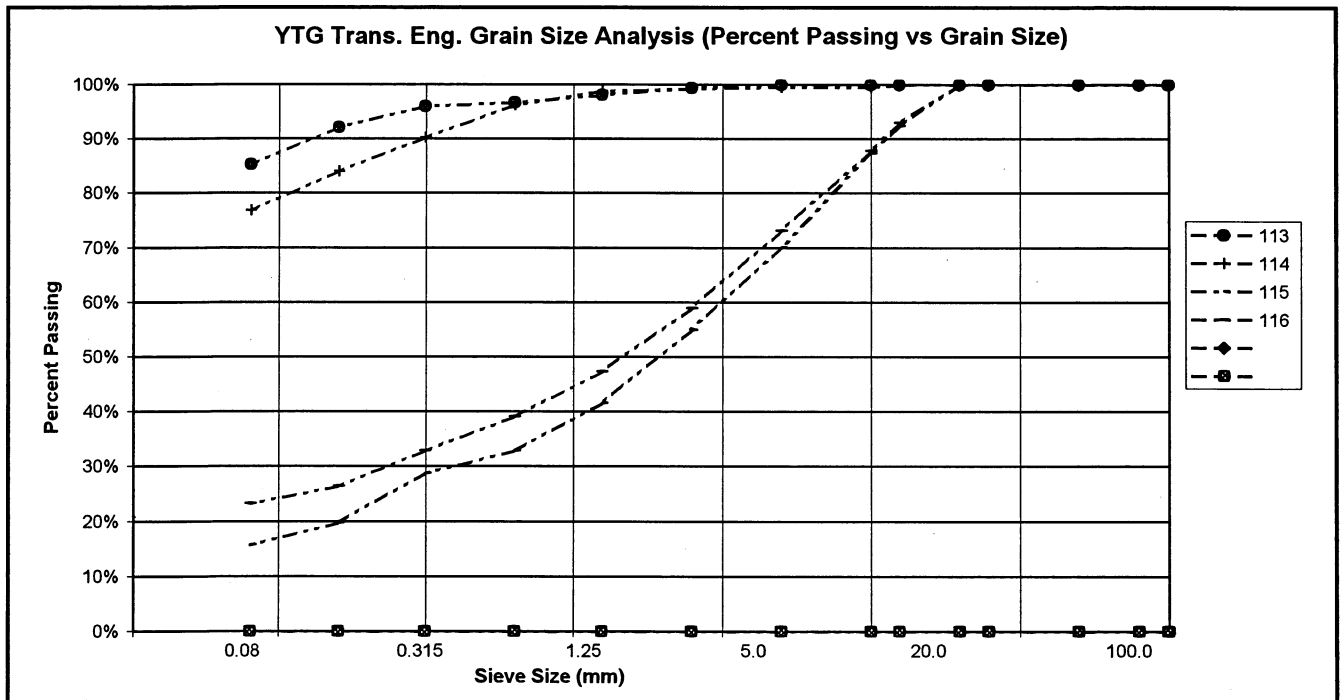


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+550 20M LT
 LOGGED BY: G.C.

HOLE No.: 541-1321

DATE COMP: 2000/04/28

FIELD NO:	113	114	115	116		
LAB NO:	418	419	420	421		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	100%		
12.5	100%	100%	92%	93%		
10.0	100%	100%	87%	88%		
5.0	100%	99%	70%	73%		
2.5	99%	99%	55%	59%		
1.25	98%	99%	42%	47%		
0.630	97%	96%	33%	39%		
0.315	96%	90%	29%	33%		
0.160	92%	84%	20%	26%		
0.080	85%	77%	16%	23%		
M.C.(%)	72%	43%	9%	9%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	1	30	27		
% SAND:	15	23	54	50		
% FINES:	85	77	16	23		
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

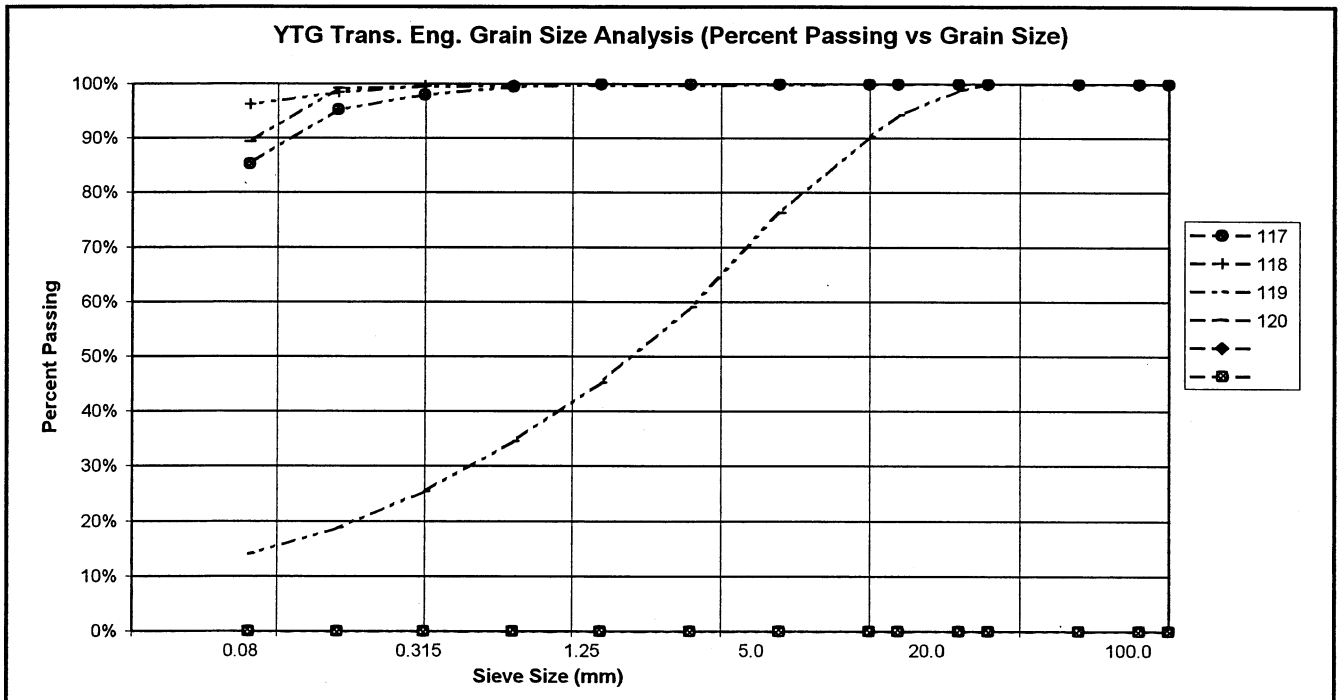


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+650 CL
 LOGGED BY: G.C.

HOLE No.: 541-1322

DATE COMP: 2000/04/28

FIELD NO:	117	118	119	120		
LAB NO:	422	423	424	425		
DEPTH:	1.0-1.5	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	99%	100%		
12.5	100%	100%	94%	100%		
10.0	100%	100%	90%	100%		
5.0	100%	100%	76%	100%		
2.5	100%	100%	59%	100%		
1.25	100%	100%	45%	100%		
0.630	100%	100%	35%	100%		
0.315	98%	100%	25%	100%		
0.160	95%	98%	19%	99%		
0.080	85%	96%	14%	89%		
M.C.(%):	49%	84%	11%	31%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	24	0		
% SAND:	15	4	62	11		
% FINES:	85	96	14	89		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILT (ML)		

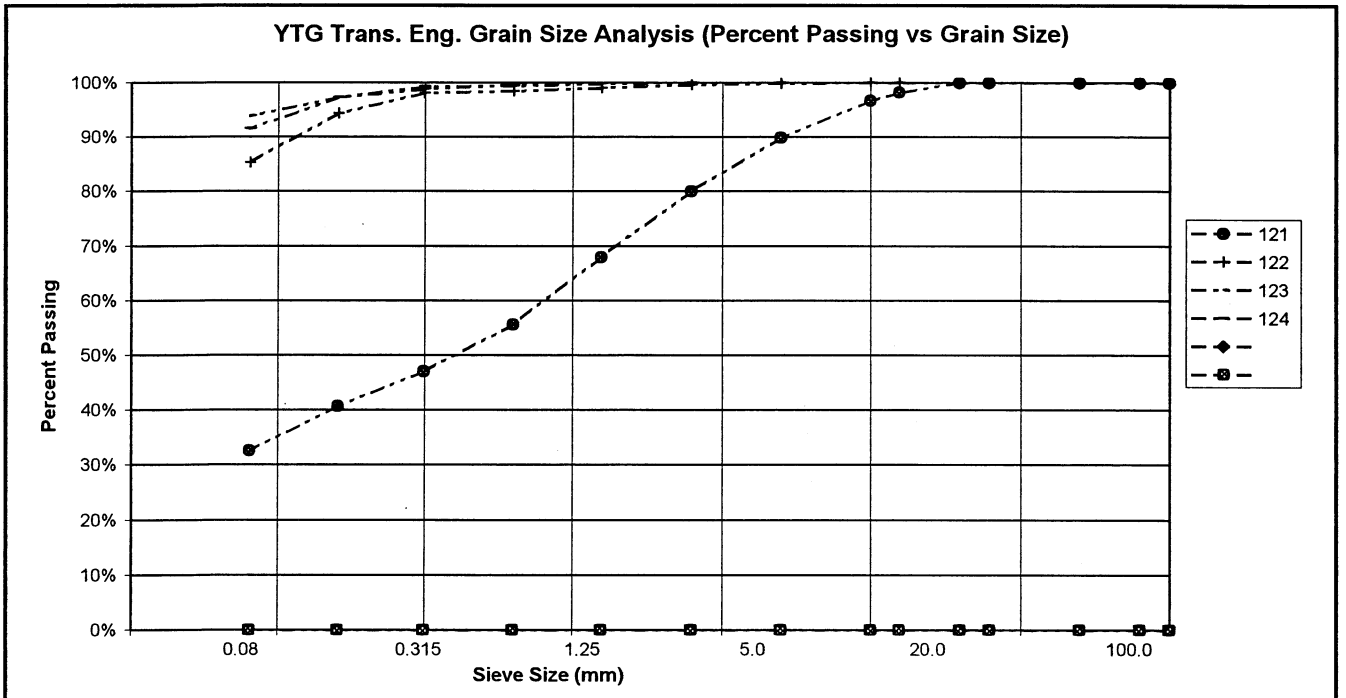


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+750 CL
 LOGGED BY: G.C.

HOLE No.: 541-1323

DATE COMP: 2000/04/28

FIELD NO:	121	122	123	124		
LAB NO:	426	427	428	429		
DEPTH:	1.0-1.4	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	100%		
12.5	98%	100%	100%	100%		
10.0	97%	100%	100%	100%		
5.0	90%	100%	100%	100%		
2.5	80%	100%	100%	100%		
1.25	68%	99%	100%	100%		
0.630	56%	98%	100%	99%		
0.315	47%	98%	99%	99%		
0.160	41%	94%	97%	97%		
0.080	33%	85%	94%	92%		
M.C.(%)	24%	46%	42%	29%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	10	0	0	0		
% SAND:	57	15	6	8		
% FINES:	33	85	94	92		
CLASSIFICATION	SILTY SAND (SM)	SILT (ML)	SILT (ML)	SILT (ML)		

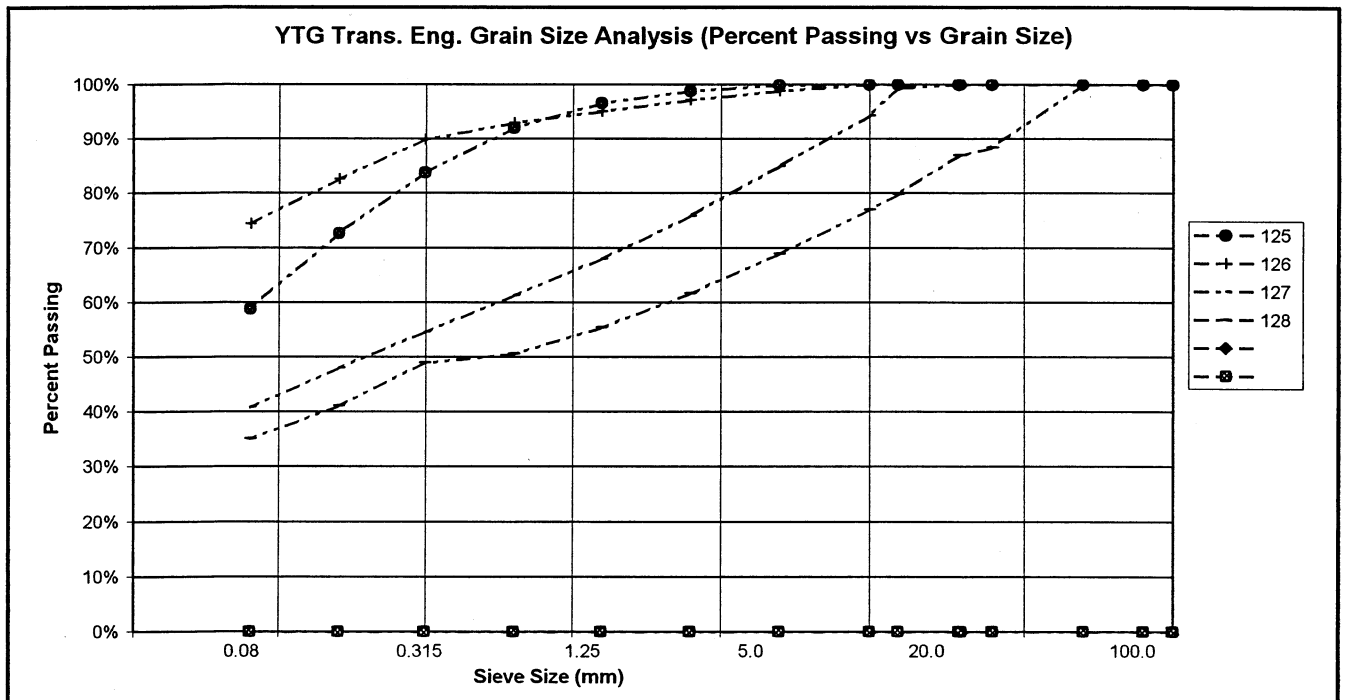


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+850 CL
 LOGGED BY: G.C.

HOLE No.: 541-1324

DATE COMP: 2000/04/28

FIELD NO:	125	126	127	128
LAB NO:	430	431	432	433
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7
TYPE:	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING
100.0	100%	100%	100%	100%
80.0	100%	100%	100%	100%
50.0	100%	100%	100%	100%
25.0	100%	100%	100%	88%
20.0	100%	100%	100%	87%
12.5	100%	100%	99%	80%
10.0	100%	100%	94%	77%
5.0	100%	99%	85%	69%
2.5	99%	97%	76%	62%
1.25	97%	95%	68%	55%
0.630	92%	93%	61%	51%
0.315	84%	90%	55%	49%
0.160	73%	83%	48%	41%
0.080	59%	74%	41%	35%
M.C.(%)	53%	41%	9%	8%
LIQUID LIMIT:	0.0	0.0	0.0	0.0
PLASTIC LIMIT:	0.0	0.0	0.0	0.0
PLASTIC INDEX:	0.0	0.0	0.0	0.0
% GRAVEL:	0	1	15	31
% SAND:	41	24	44	34
% FINES:	59	74	41	35
CLASSIFICATION	SANDY SILT (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)

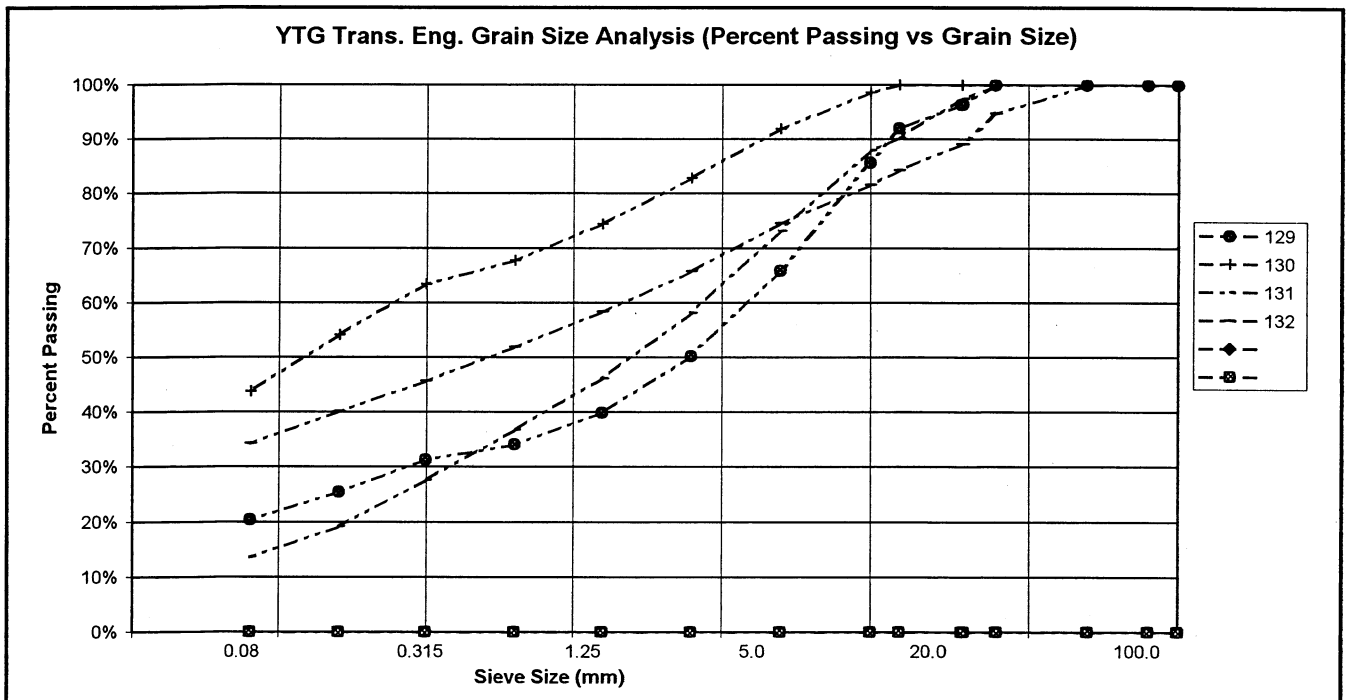


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+050 CL
 LOGGED BY: G.C.

HOLE No.: 541-1325

DATE COMP: 2000/04/28

FIELD NO:	129	130	131	132		
LAB NO:	434	435	436	437		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	95%		
20.0	96%	100%	97%	89%		
12.5	92%	100%	90%	84%		
10.0	86%	99%	88%	82%		
5.0	66%	92%	73%	75%		
2.5	50%	83%	58%	66%		
1.25	40%	74%	46%	58%		
0.630	34%	68%	37%	52%		
0.315	31%	63%	28%	46%		
0.160	25%	54%	19%	40%		
0.080	20%	44%	14%	34%		
M.C.(%)	34%	28%	13%	12%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	34	8	27	25		
% SAND:	45	48	60	40		
% FINES:	20	44	14	34		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

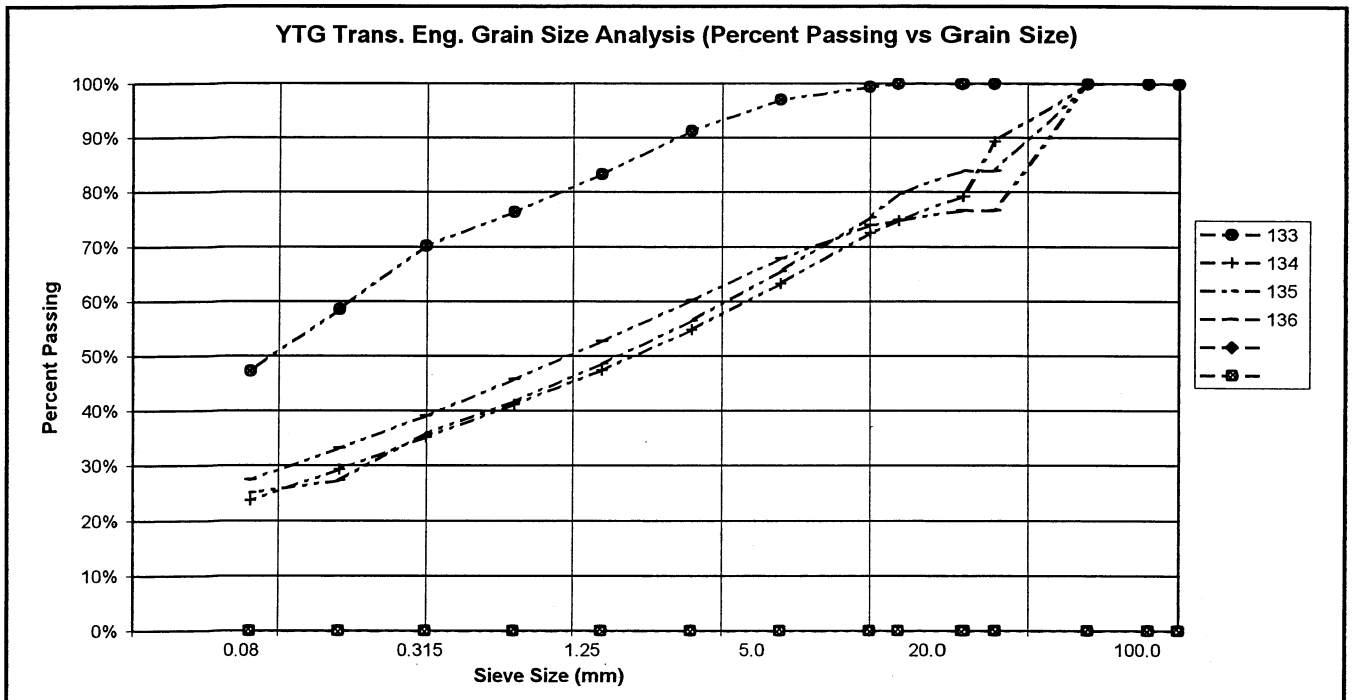


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+150 CL
 LOGGED BY: G.C.

HOLE No.: 541-1326

DATE COMP: 2000/04/28

FIELD NO:	133	134	135	136		
LAB NO:	438	439	440	441		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	89%	84%	77%		
20.0	100%	79%	84%	77%		
12.5	100%	75%	80%	75%		
10.0	99%	73%	75%	74%		
5.0	97%	63%	65%	68%		
2.5	91%	55%	56%	60%		
1.25	83%	47%	49%	53%		
0.630	76%	41%	42%	46%		
0.315	70%	35%	36%	39%		
0.160	59%	29%	27%	33%		
0.080	47%	24%	25%	27%		
M.C.(%)	21%	8%	18%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	3	37	35	32		
% SAND:	50	40	40	40		
% FINES:	47	24	25	27		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

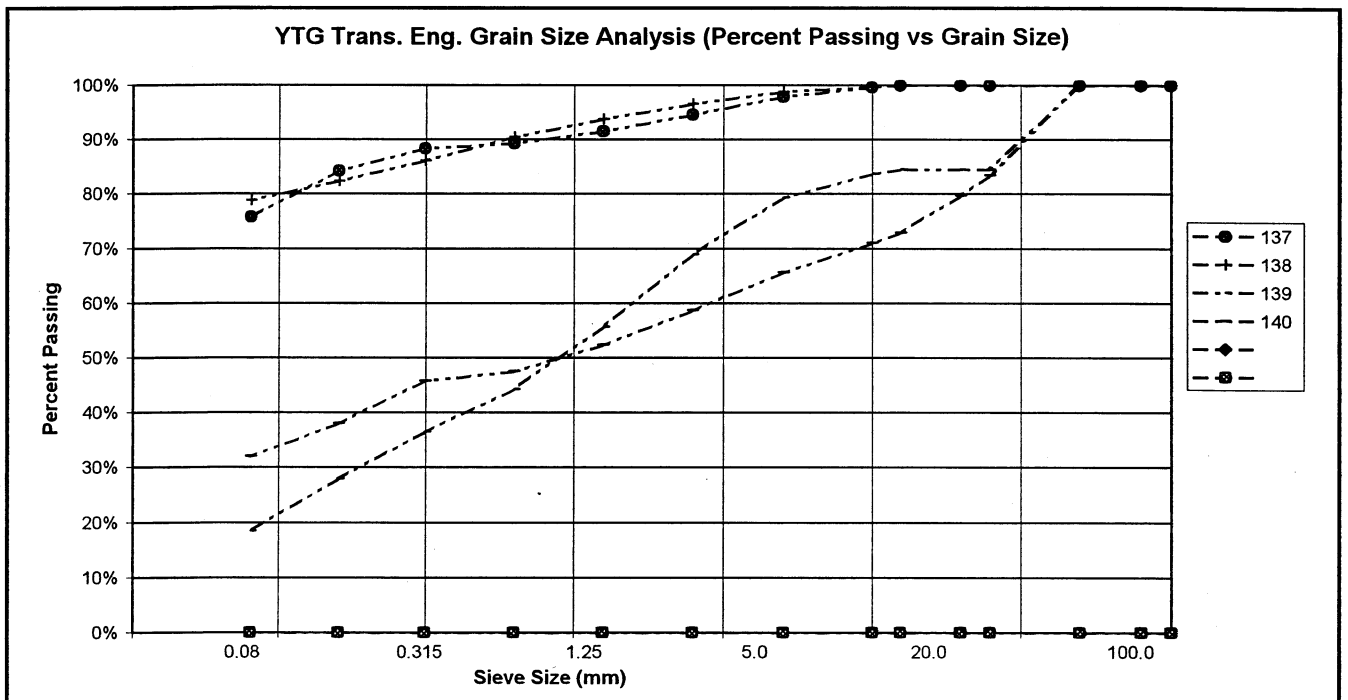


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+150 20M RT
 LOGGED BY: G.C.

HOLE No.: 542-1327

DATE COMP: 2000/05/02

FIELD NO:	137	138	139	140		
LAB NO:	442	443	444	445		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	85%	83%		
20.0	100%	100%	85%	80%		
12.5	100%	100%	85%	73%		
10.0	100%	100%	84%	71%		
5.0	98%	99%	79%	66%		
2.5	95%	97%	69%	59%		
1.25	92%	94%	56%	52%		
0.630	89%	91%	44%	48%		
0.315	88%	86%	36%	46%		
0.160	84%	82%	28%	38%		
0.080	76%	79%	18%	32%		
M.C.(%)	24%	39%	11%	15%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	2	1	21	34		
% SAND:	22	20	61	33		
% FINES:	76	79	18	32		
CLASSIFICATION	SILT WITH SAND (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

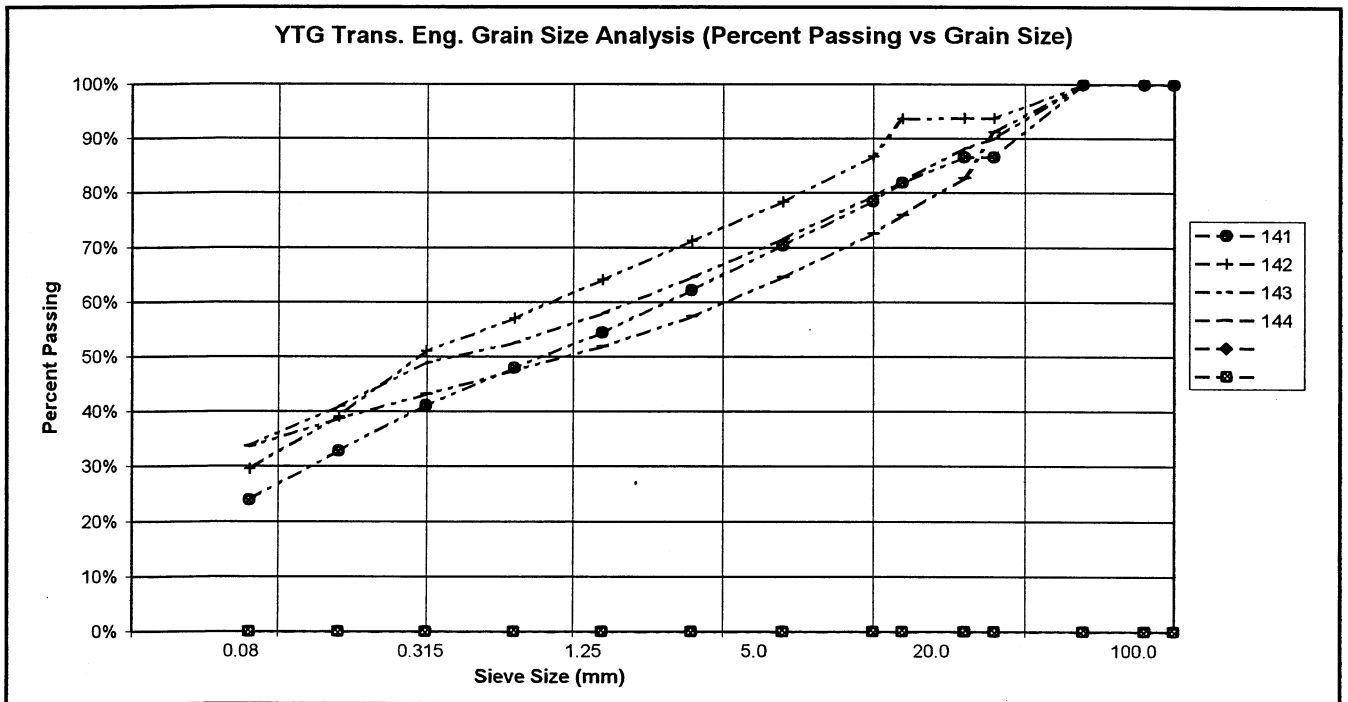


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+150 20M LT
 LOGGED BY: G.C.

HOLE No.: 542-1328

DATE COMP: 2000/05/02

FIELD NO:	141	142	143	144		
LAB NO:	446	447	448	449		
DEPTH:	1.0-1.5	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	87%	94%	90%	91%		
20.0	87%	94%	88%	83%		
12.5	82%	94%	82%	76%		
10.0	79%	87%	79%	73%		
5.0	70%	78%	72%	65%		
2.5	62%	71%	65%	57%		
1.25	54%	64%	58%	52%		
0.630	48%	57%	53%	48%		
0.315	41%	51%	49%	43%		
0.160	33%	39%	41%	39%		
0.080	24%	30%	34%	34%		
M.C.(%)	8%	13%	9%	16%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	30	22	28	35		
% SAND:	46	49	38	31		
% FINES:	24	30	34	34		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

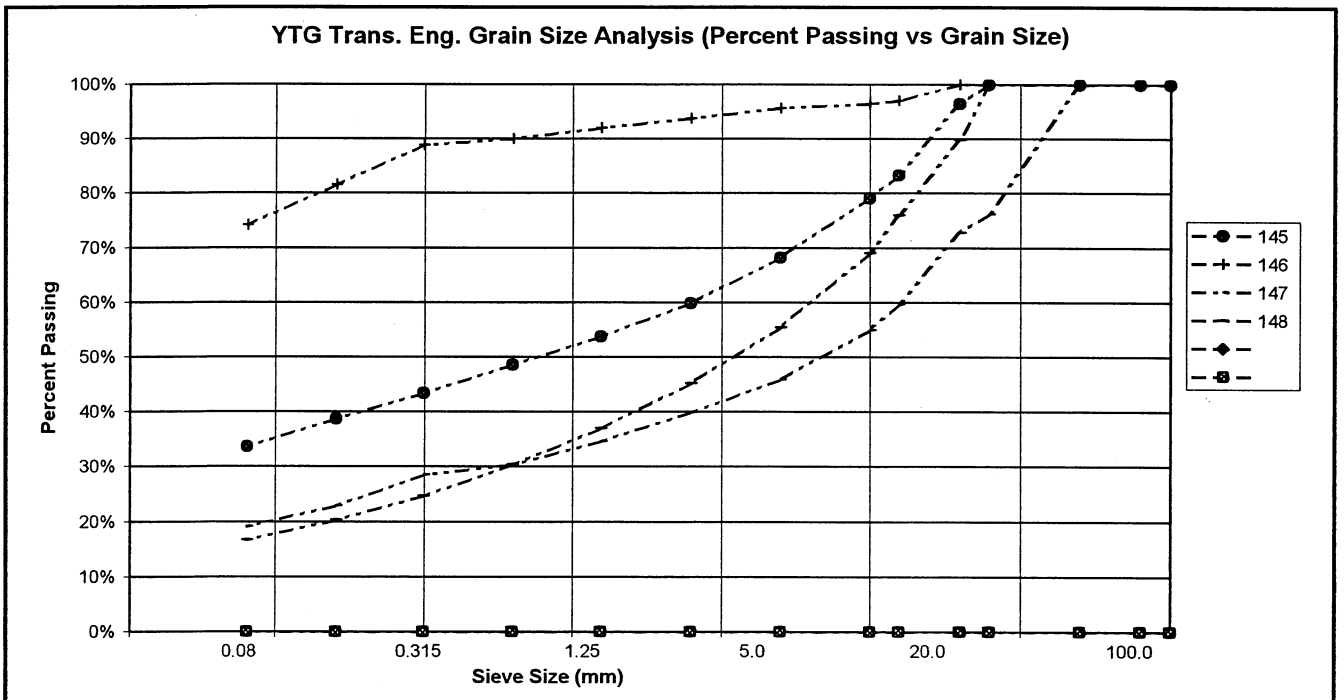


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+010 15M RT
 LOGGED BY: G.C.

HOLE No.: 542-1329

DATE COMP: 2000/05/02

FIELD NO:	145	146	147	148		
LAB NO:	450	451	452	453		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	76%	100%		
20.0	96%	100%	73%	90%		
12.5	83%	97%	60%	76%		
10.0	79%	97%	55%	69%		
5.0	68%	96%	46%	55%		
2.5	60%	94%	40%	45%		
1.25	54%	92%	35%	37%		
0.630	49%	90%	30%	30%		
0.315	43%	89%	28%	25%		
0.160	39%	82%	23%	20%		
0.080	34%	74%	19%	17%		
M.C.(%)	12%	27%	8%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	32	4	54	45		
% SAND:	34	22	27	39		
% FINES:	34	74	19	17		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		

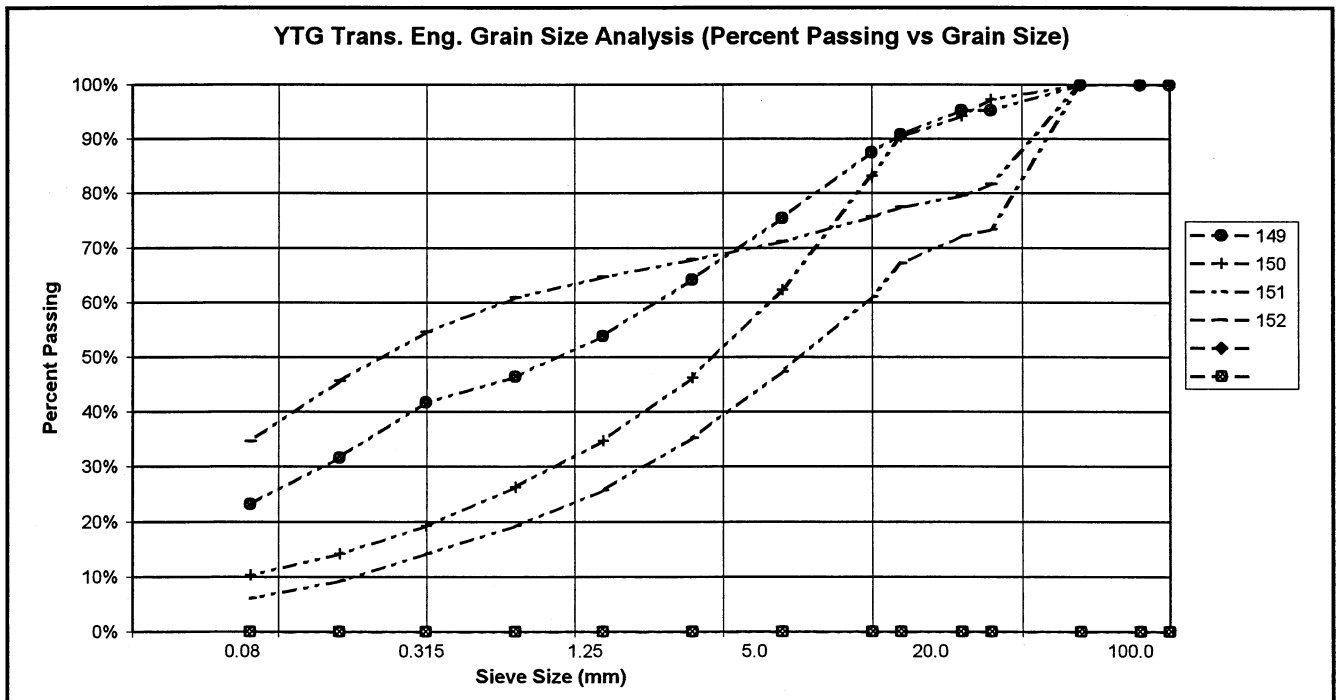


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+250 12M RT
 LOGGED BY: G.C.

HOLE No.: 542-1330

DATE COMP: 2000/05/02

FIELD NO:	149	150	151	152		
LAB NO:	454	455	456	457		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	95%	97%	73%	82%		
20.0	95%	94%	72%	80%		
12.5	91%	90%	67%	78%		
10.0	88%	83%	61%	76%		
5.0	76%	62%	47%	71%		
2.5	64%	46%	35%	68%		
1.25	54%	35%	26%	65%		
0.630	46%	26%	19%	61%		
0.315	42%	19%	14%	55%		
0.160	32%	14%	9%	46%		
0.080	23%	10%	6%	35%		
M.C.(%):	12%	3%	2%	33%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	24	38	53	29		
% SAND:	52	52	41	37		
% FINES:	23	10	6	35		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)		

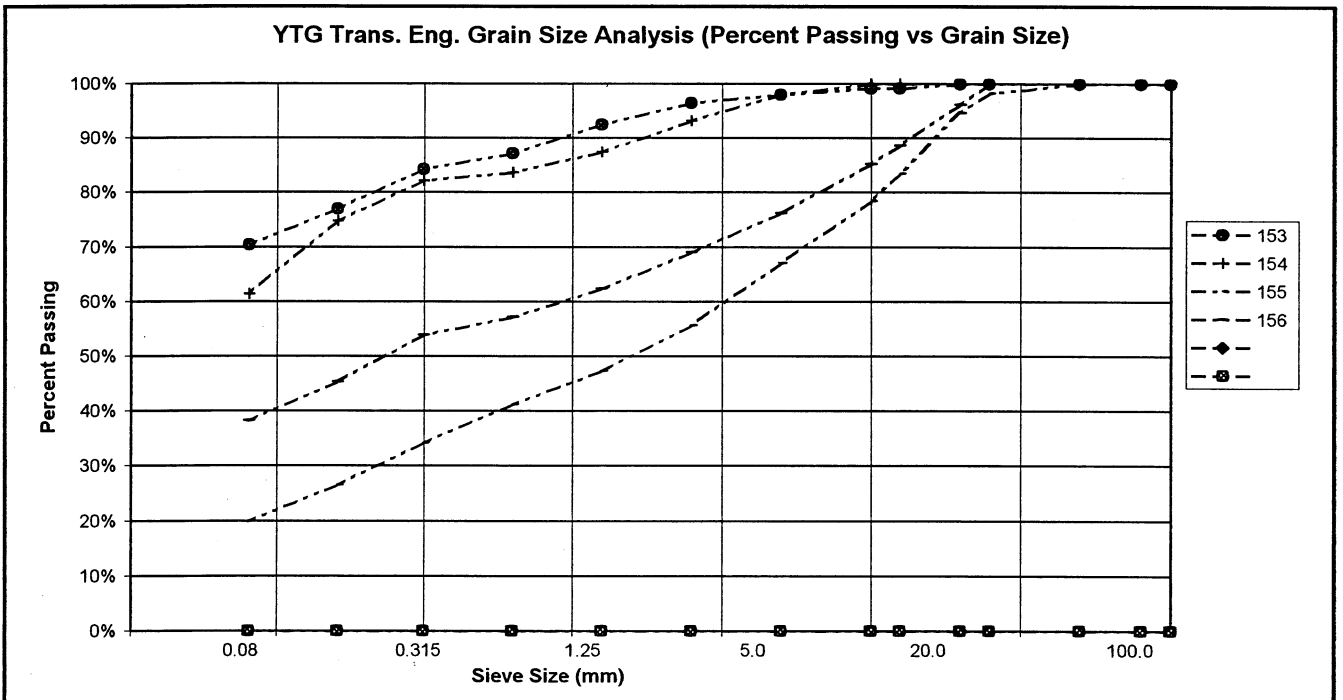


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+555 12M RT
 LOGGED BY: G.C.

HOLE No.: 542-1331

DATE COMP: 2000/05/02

FIELD NO:	153	154	155	156		
LAB NO:	458	459	460	461		
DEPTH:	1.5-2.0	2.8-3.0	3.8-4.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	98%	100%		
20.0	100%	100%	95%	96%		
12.5	99%	100%	83%	89%		
10.0	99%	100%	78%	85%		
5.0	98%	98%	67%	76%		
2.5	97%	93%	56%	69%		
1.25	93%	87%	47%	62%		
0.630	87%	84%	41%	57%		
0.315	84%	82%	34%	54%		
0.160	77%	75%	26%	45%		
0.080	70%	61%	20%	38%		
M.C.(%)	35%	23%	12%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	2	2	33	24		
% SAND:	28	37	47	38		
% FINES:	70	61	20	38		
CLASSIFICATION	SILT WITH SAND (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

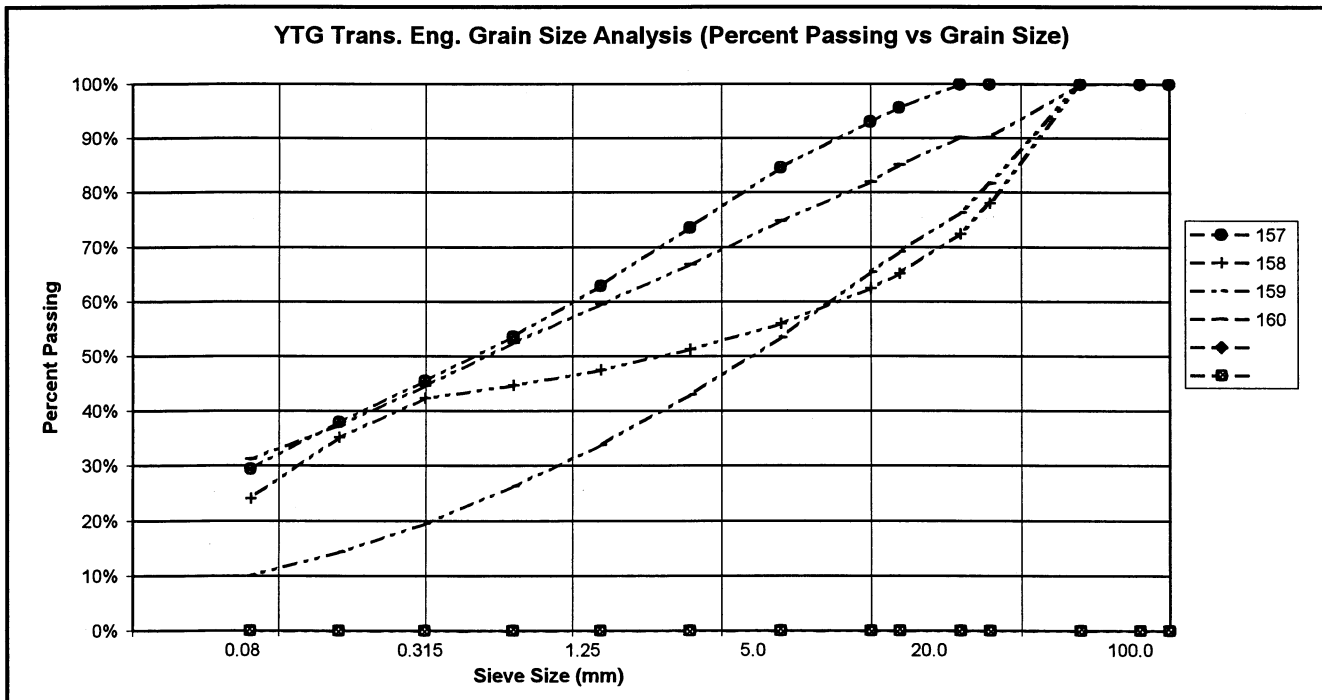


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+700 12M RT
 LOGGED BY: G.C.

HOLE No.: 542-1332

DATE COMP: 2000/05/02

FIELD NO:	157	158	159	160		
LAB NO:	462	463	464	465		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	78%	82%	90%		
20.0	100%	72%	76%	90%		
12.5	96%	65%	69%	85%		
10.0	93%	62%	65%	82%		
5.0	85%	56%	53%	75%		
2.5	74%	51%	43%	67%		
1.25	63%	48%	34%	60%		
0.630	54%	45%	26%	52%		
0.315	46%	42%	20%	45%		
0.160	38%	35%	14%	37%		
0.080	29%	24%	10%	31%		
M.C.(%)	7%	6%	3%	15%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	15	44	47	25		
% SAND:	55	32	43	44		
% FINES:	29	24	10	31		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)		

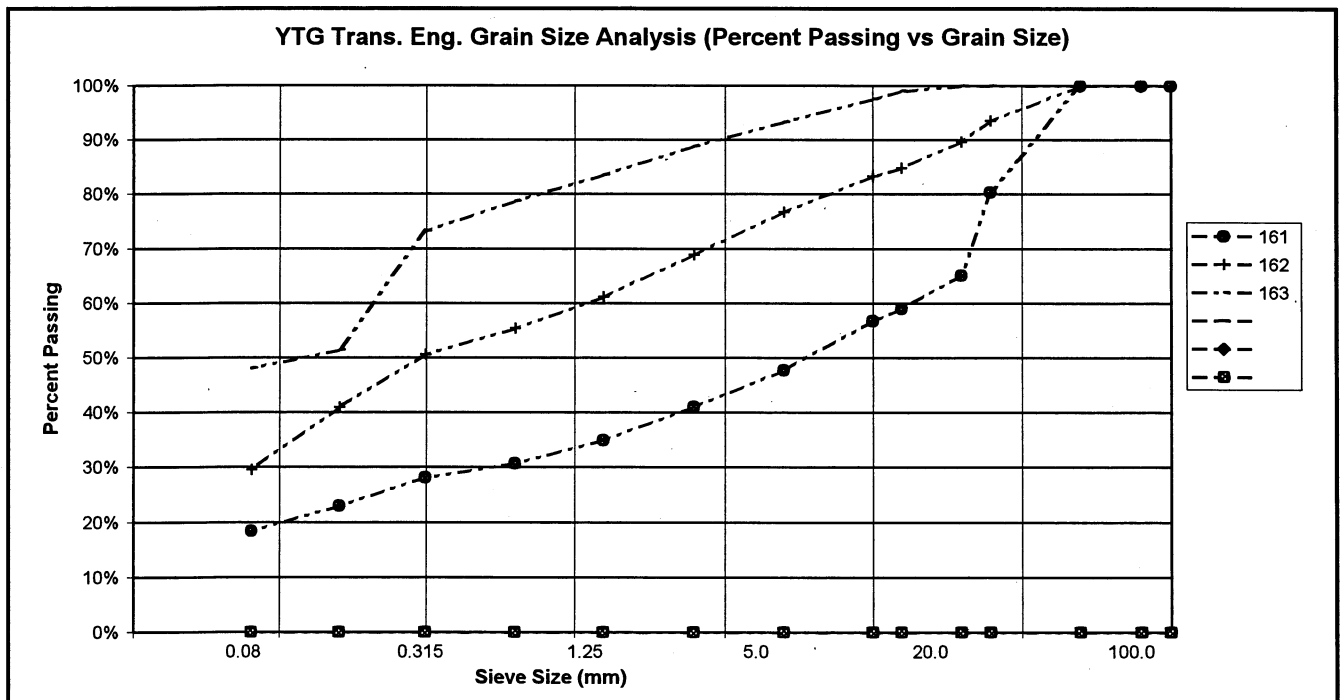


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743+850 12M RT
 LOGGED BY: G.C.

HOLE No.: 542-1333

DATE COMP: 2000/05/02

FIELD NO:	161	162	163		
LAB NO:	466	467	468		
DEPTH:	1.8-2.0	2.8-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	80%	94%	100%		
20.0	65%	90%	100%		
12.5	59%	85%	99%		
10.0	57%	83%	98%		
5.0	48%	77%	93%		
2.5	41%	69%	89%		
1.25	35%	61%	84%		
0.630	31%	55%	79%		
0.315	28%	51%	73%		
0.160	23%	41%	51%		
0.080	18%	30%	48%		
M.C.(%)	15%	15%	24%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	52	23	7		
% SAND:	29	47	45		
% FINES:	18	30	48		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

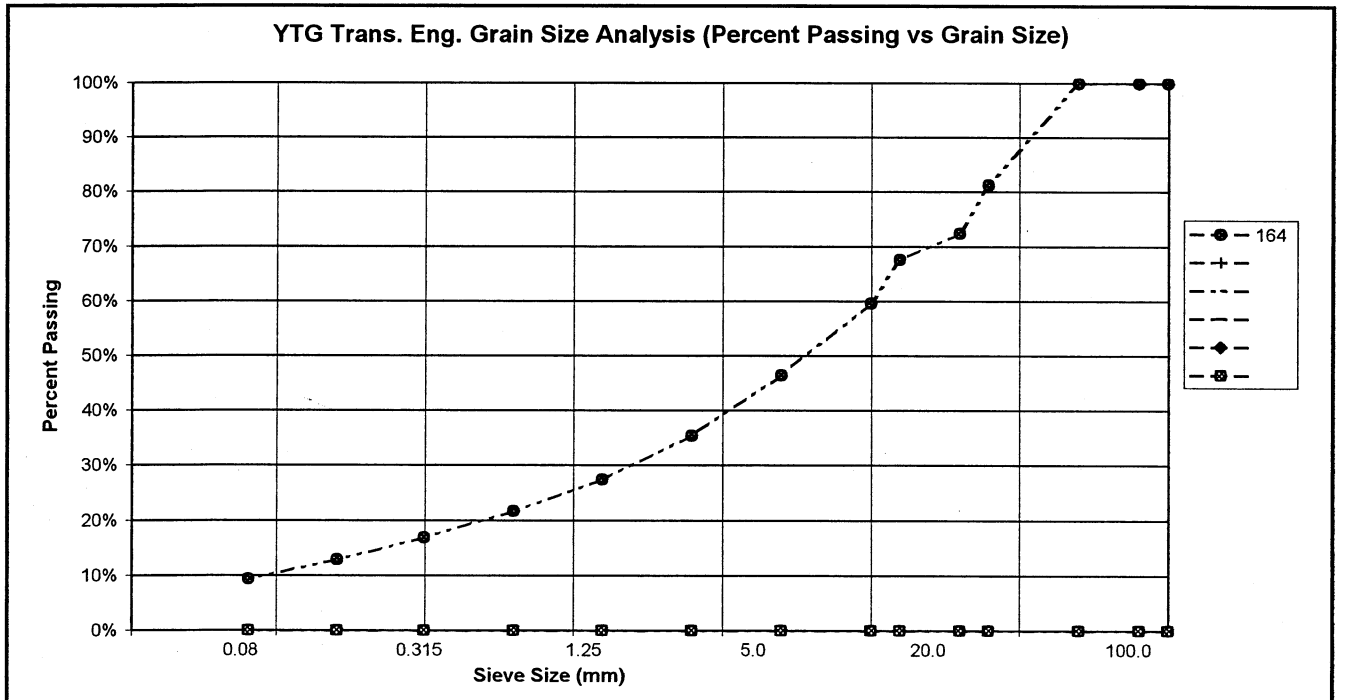


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1743-900 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1334

DATE COMP: 2000/05/02

FIELD NO:	164				
LAB NO:	469				
DEPTH:	0.8-1.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	81%				
20.0	72%				
12.5	68%				
10.0	60%				
5.0	46%				
2.5	35%				
1.25	28%				
0.630	22%				
0.315	17%				
0.160	13%				
0.080	9%				
M.C.(%):	7%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	54				
% SAND:	37				
% FINES:	9				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

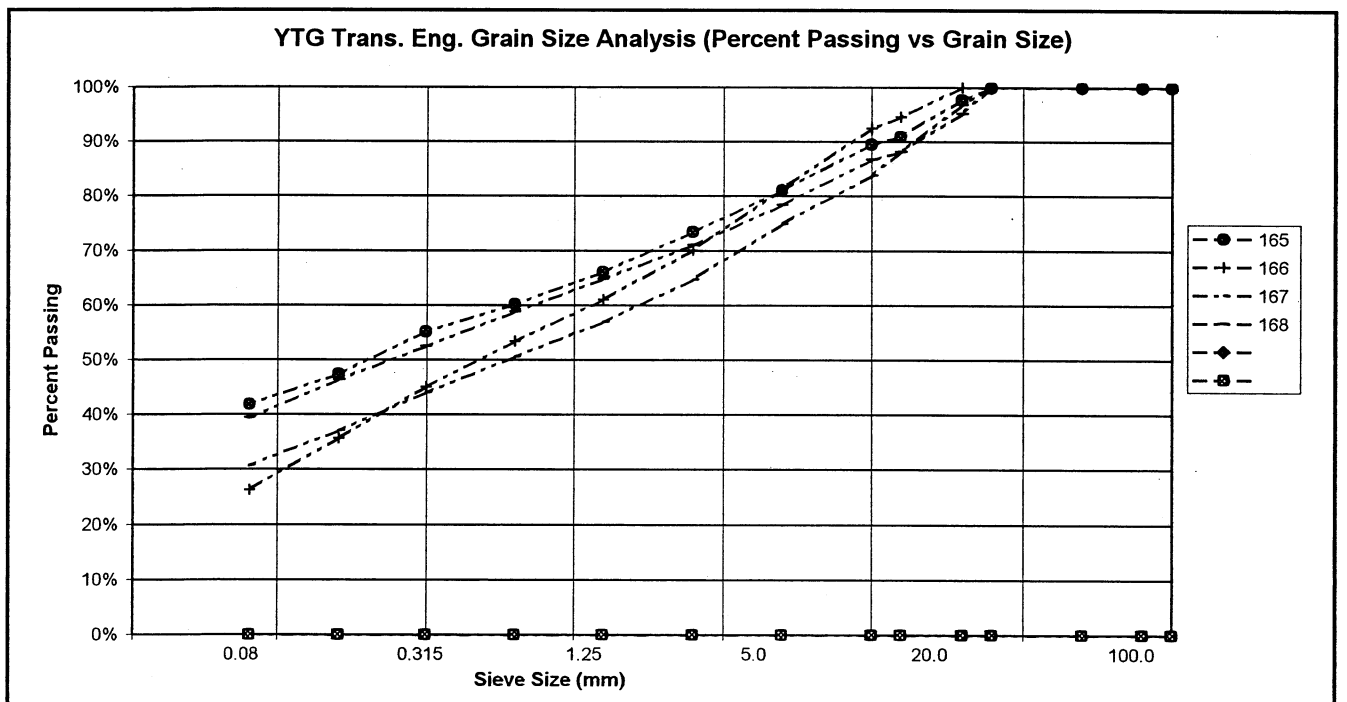


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+000 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1335

DATE COMP: 2000/05/10

FIELD NO:	165	166	167	168		
LAB NO:	470	471	472	473		
DEPTH:	1.3-1.5	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	98%	100%	97%	95%		
12.5	91%	95%	88%	88%		
10.0	90%	93%	84%	87%		
5.0	81%	81%	75%	78%		
2.5	73%	70%	65%	71%		
1.25	66%	61%	57%	65%		
0.630	60%	53%	51%	59%		
0.315	55%	45%	44%	53%		
0.160	47%	36%	37%	46%		
0.080	42%	26%	31%	39%		
M.C.(%):	10%	20%	15%	10%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	19	19	25	22		
% SAND:	39	55	44	39		
% FINES:	42	26	31	39		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

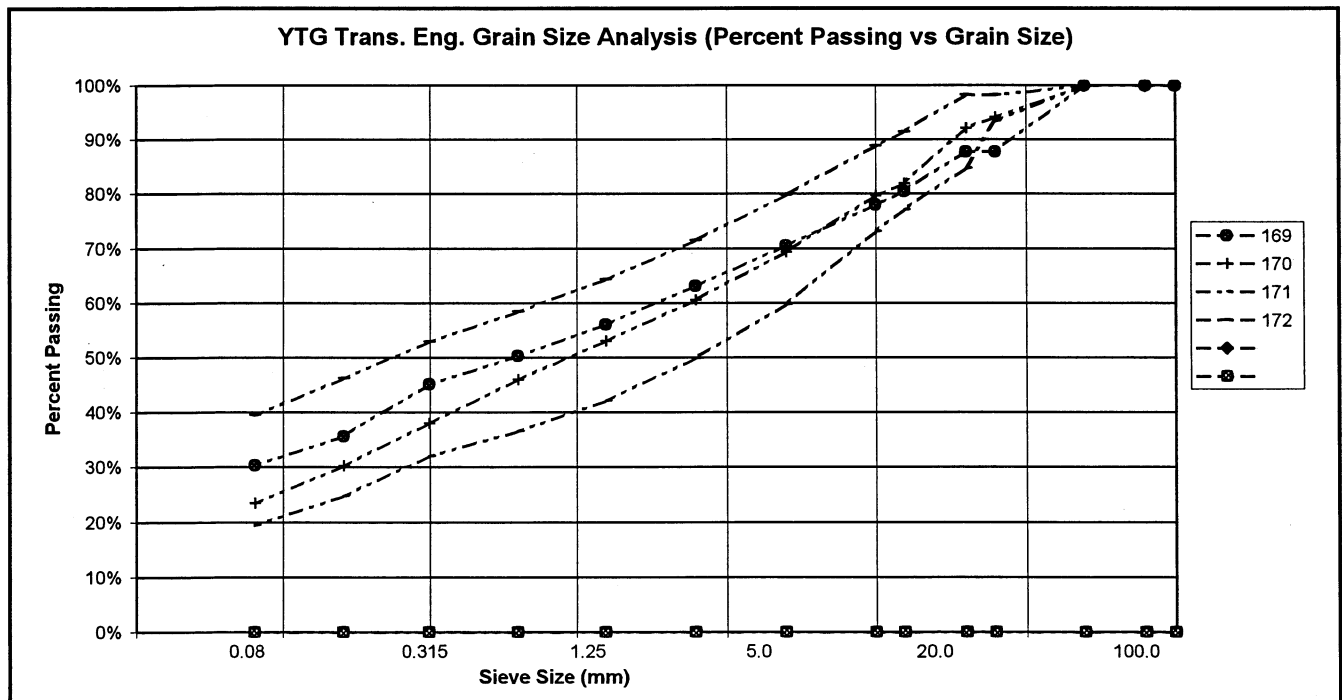


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+050 15M RT
 LOGGED BY: G.C.

HOLE No.: 543-1336

DATE COMP: 2000/05/10

FIELD NO:	169	170	171	172		
LAB NO:	474	475	476	477		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	88%	94%	93%	98%		
20.0	88%	92%	85%	98%		
12.5	80%	82%	77%	91%		
10.0	78%	80%	73%	89%		
5.0	71%	69%	60%	80%		
2.5	63%	61%	50%	71%		
1.25	56%	53%	42%	64%		
0.630	50%	46%	37%	58%		
0.315	45%	38%	32%	53%		
0.160	36%	30%	25%	46%		
0.080	30%	24%	19%	40%		
M.C.(%)	30%	17%	14%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	29	31	40	20		
% SAND:	40	46	40	40		
% FINES:	30	24	19	40		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

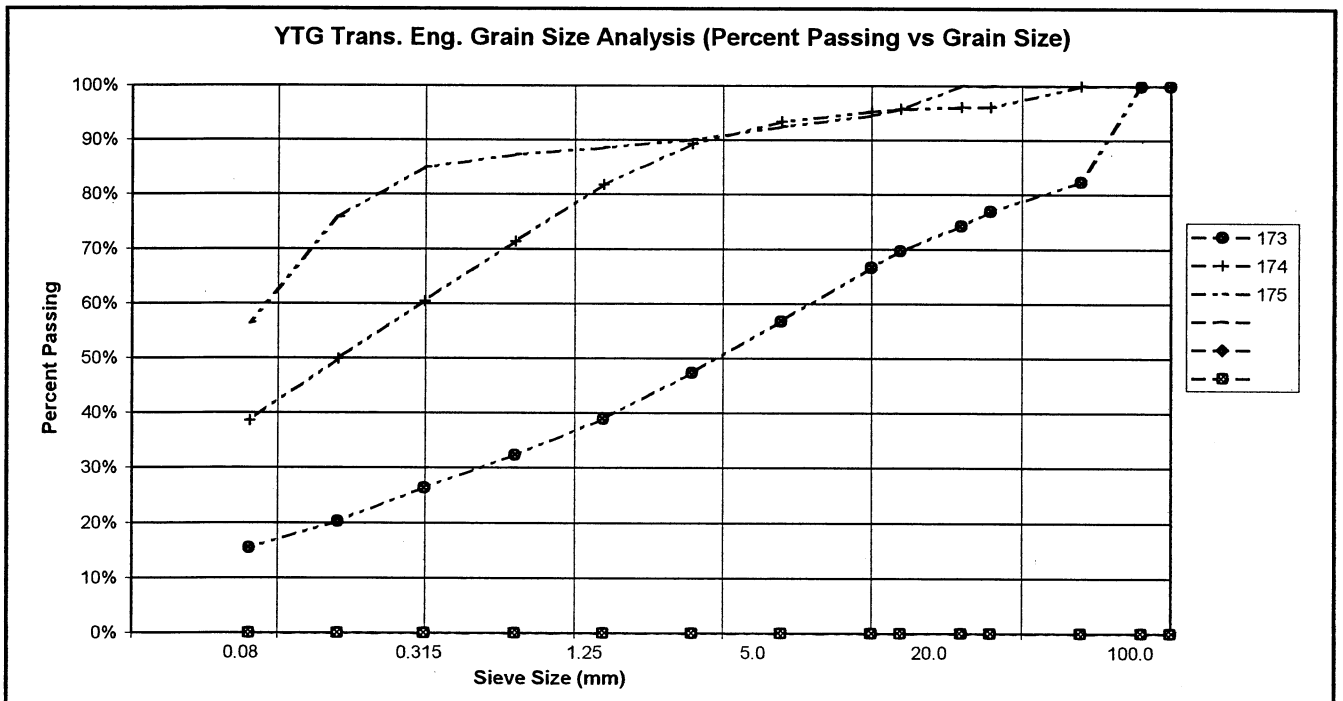


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+400 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1337

DATE COMP: 2000/05/10

FIELD NO:	173	174	175		
LAB NO:	478	479	480		
DEPTH:	1.3-1.5	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	82%	100%	100%		
25.0	77%	96%	100%		
20.0	74%	96%	100%		
12.5	70%	96%	96%		
10.0	67%	95%	95%		
5.0	57%	93%	92%		
2.5	47%	89%	90%		
1.25	39%	82%	89%		
0.630	32%	71%	87%		
0.315	26%	61%	85%		
0.160	20%	50%	76%		
0.080	15%	39%	56%		
M.C.(%)	9%	17%	21%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	43	7	8		
% SAND:	41	55	36		
% FINES:	15	39	56		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND (SM)	SANDY SILT (ML)		

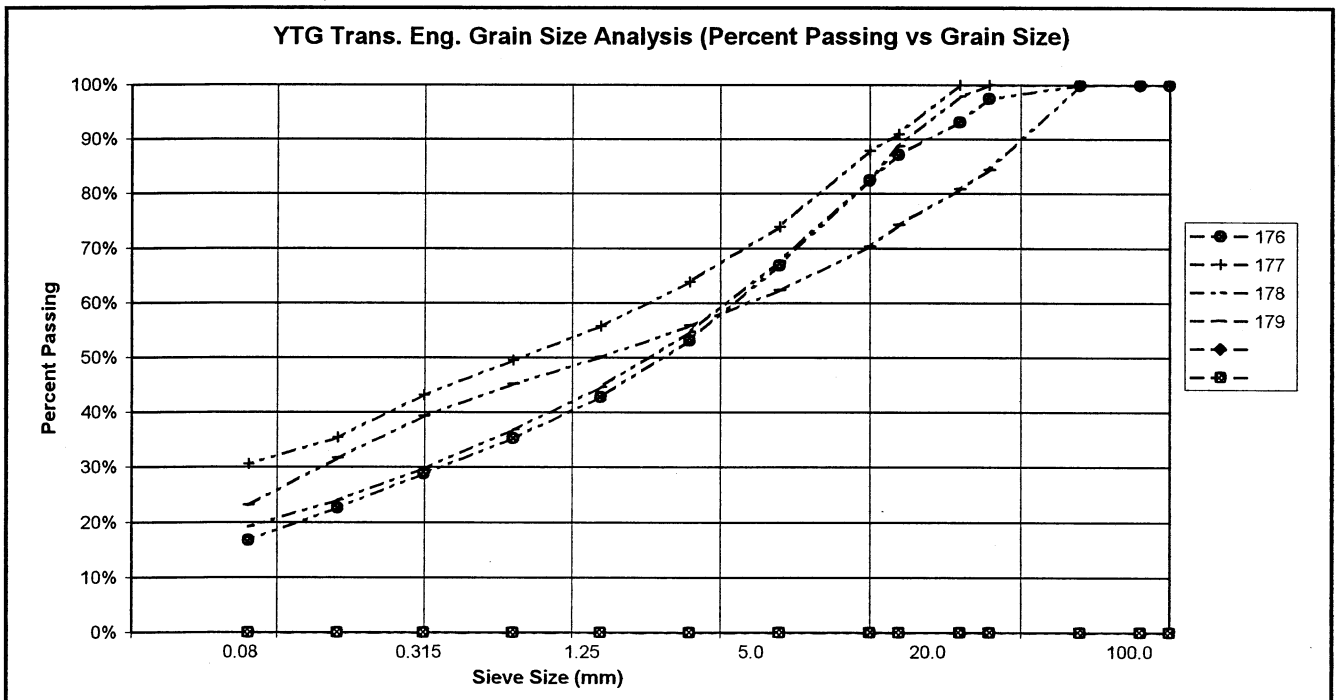


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+500 15M RT
 LOGGED BY: G.C.

HOLE No.: 543-1338

DATE COMP: 2000/05/10

FIELD NO:	176	177	178	179		
LAB NO:	481	482	483	484		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	98%	100%	100%	84%		
20.0	93%	100%	98%	81%		
12.5	87%	91%	89%	74%		
10.0	82%	88%	83%	70%		
5.0	67%	74%	68%	62%		
2.5	53%	64%	55%	56%		
1.25	43%	56%	45%	50%		
0.630	35%	50%	37%	45%		
0.315	29%	43%	30%	39%		
0.160	23%	35%	24%	32%		
0.080	17%	31%	19%	23%		
M.C.(%)	11%	7%	9%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	33	26	32	38		
% SAND:	50	43	48	39		
% FINES:	17	31	19	23		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

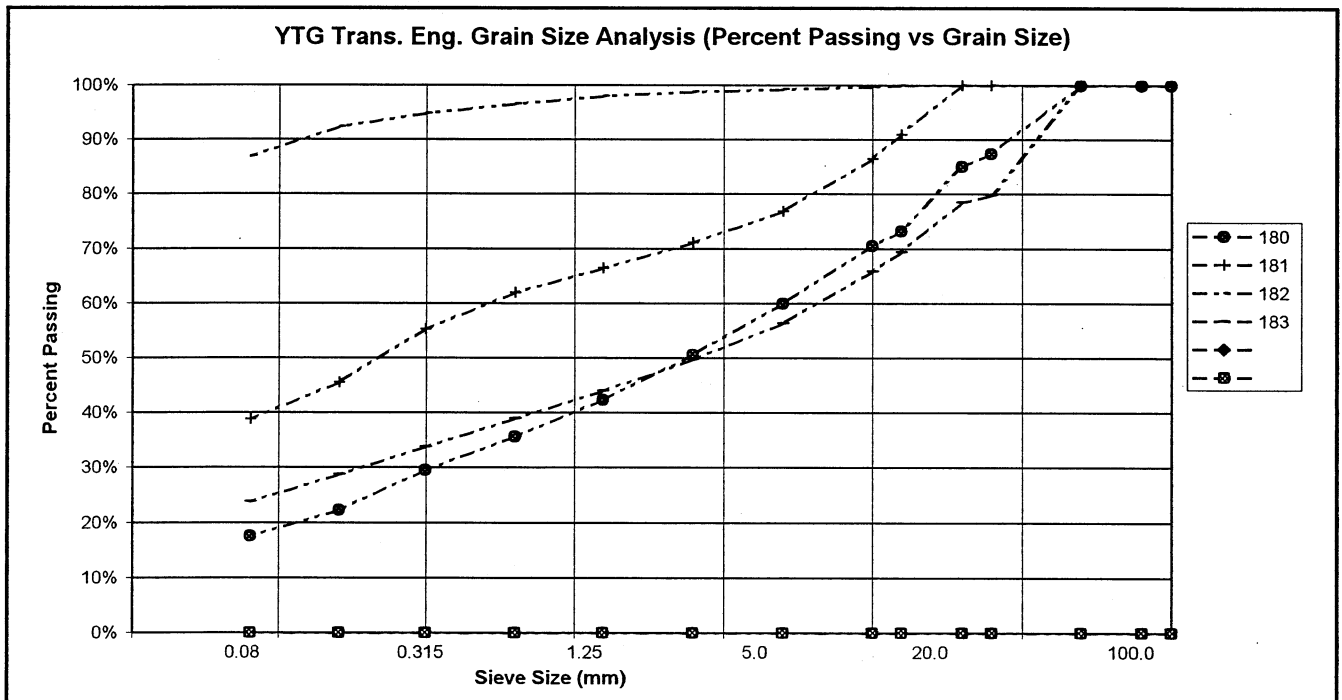


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+650 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1339

DATE COMP: 2000/05/10

FIELD NO:	180	181	182	183		
LAB NO:	485	486	487	488		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	87%	100%	100%	80%		
20.0	85%	100%	100%	79%		
12.5	73%	91%	100%	69%		
10.0	71%	87%	100%	66%		
5.0	60%	77%	99%	56%		
2.5	51%	71%	99%	50%		
1.25	42%	66%	98%	44%		
0.630	36%	62%	97%	39%		
0.315	30%	55%	95%	34%		
0.160	22%	46%	92%	29%		
0.080	18%	39%	87%	24%		
M.C.(%)	10%	20%	31%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	40	23	1	44		
% SAND:	42	38	12	33		
% FINES:	18	39	87	24		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILT (ML)	SILTY GRAVEL WITH SAND (GM)		

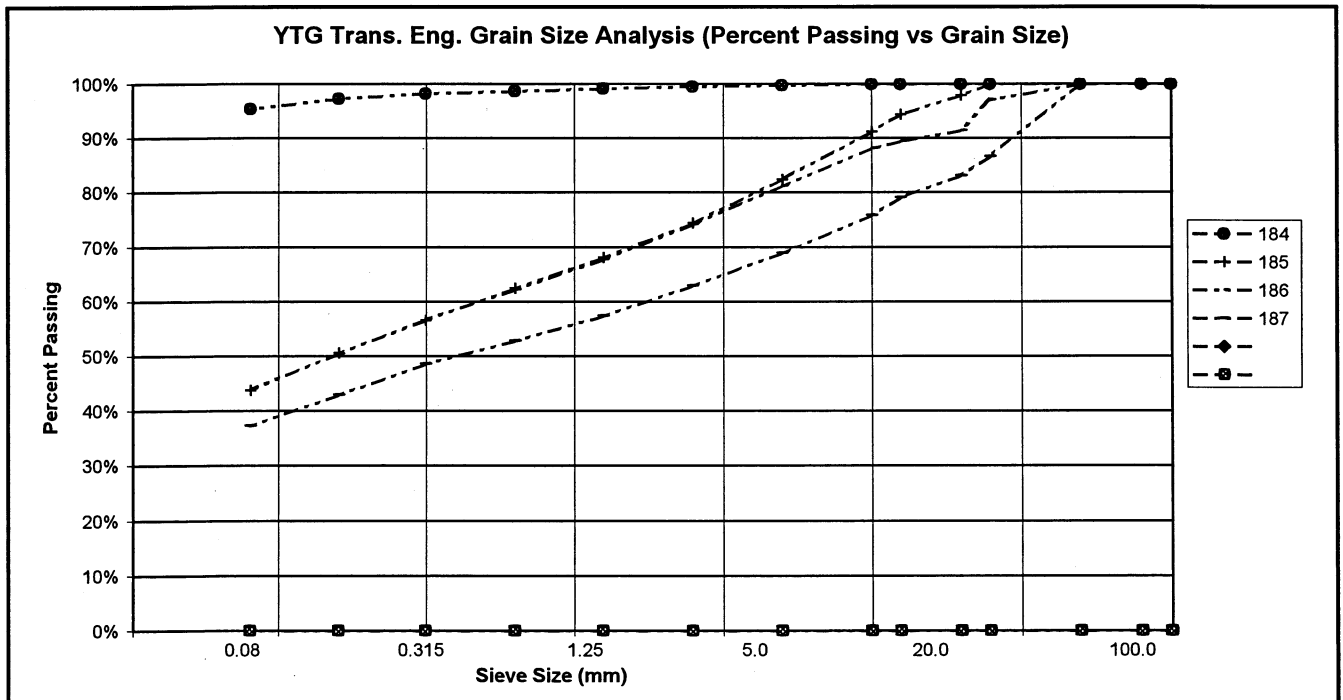


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1744+900 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1340

DATE COMP: 2000/05/10

FIELD NO:	184	185	186	187		
LAB NO:	489	490	491	492		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	97%	87%		
20.0	100%	98%	91%	83%		
12.5	100%	94%	89%	79%		
10.0	100%	91%	88%	76%		
5.0	100%	82%	81%	69%		
2.5	100%	74%	74%	63%		
1.25	99%	68%	68%	57%		
0.630	99%	62%	62%	53%		
0.315	98%	57%	57%	49%		
0.160	97%	51%	50%	43%		
0.080	95%	44%	44%	37%		
M.C.(%)	36%	10%	10%	8%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	18	19	31		
% SAND:	4	39	37	32		
% FINES:	95	44	44	37		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

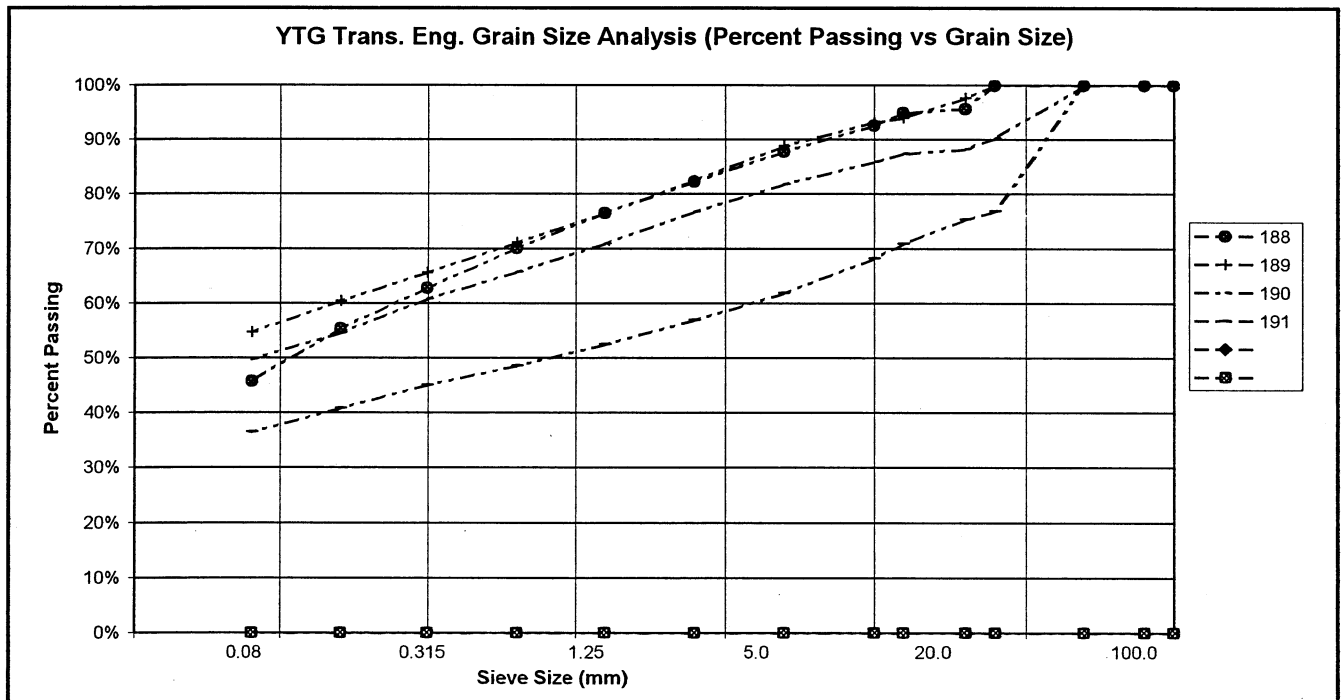


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+000 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1341

DATE COMP: 2000/05/10

FIELD NO:	188	189	190	191		
LAB NO:	493	494	495	496		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	90%	77%		
20.0	96%	98%	88%	75%		
12.5	95%	94%	87%	71%		
10.0	93%	93%	86%	68%		
5.0	88%	89%	82%	62%		
2.5	82%	83%	77%	57%		
1.25	76%	77%	71%	52%		
0.630	70%	71%	66%	49%		
0.315	63%	66%	61%	45%		
0.160	55%	60%	55%	41%		
0.080	46%	55%	50%	37%		
M.C.(%)	11%	9%	7%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	12	11	18	38		
% SAND:	42	34	32	25		
% FINES:	46	55	50	37		
CLASSIFICATION	SILTY SAND (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

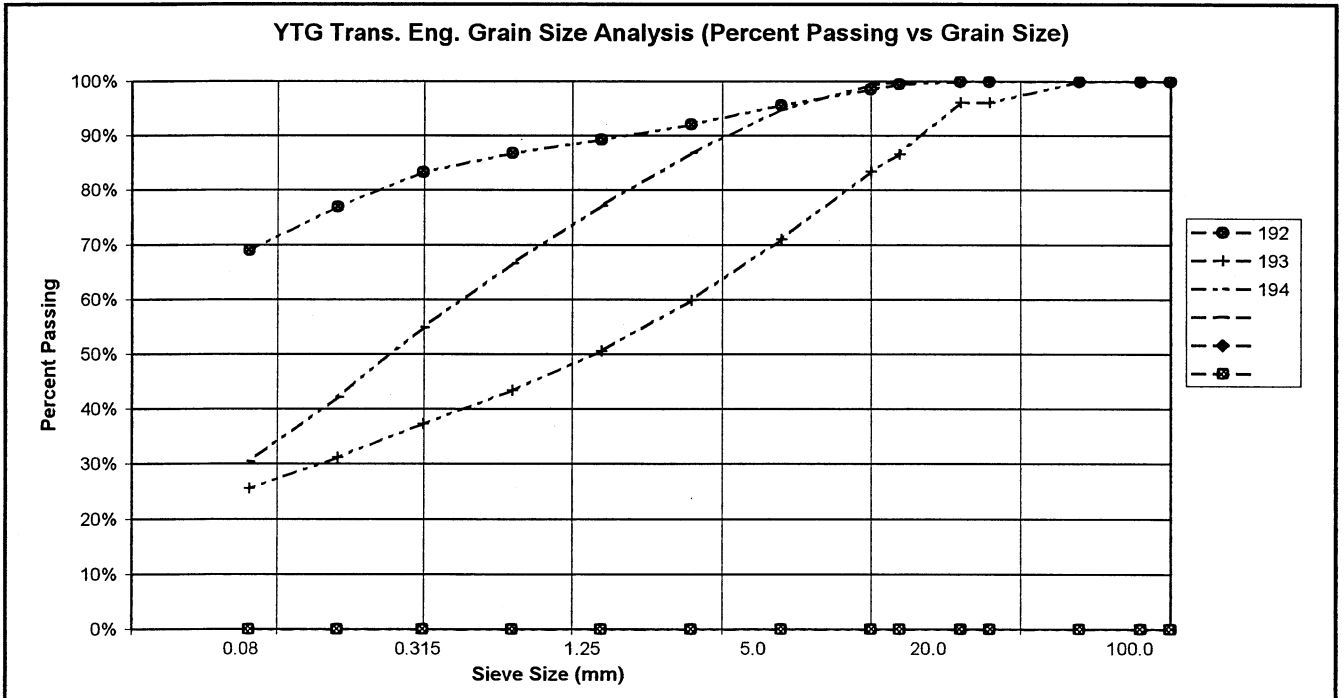


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+150 20M RT
 LOGGED BY: G.C.

HOLE No.: 543-1342

DATE COMP: 2000/05/10

FIELD NO:	192	193	194		
LAB NO:	497	498	499		
DEPTH:	1.3-1.5	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	96%	100%		
20.0	100%	96%	100%		
12.5	100%	87%	100%		
10.0	99%	83%	99%		
5.0	96%	71%	95%		
2.5	92%	60%	87%		
1.25	89%	51%	77%		
0.630	87%	43%	67%		
0.315	83%	37%	55%		
0.160	77%	31%	42%		
0.080	69%	26%	30%		
M.C.(%):	24%	11%	13%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	4	29	5		
% SAND:	27	45	64		
% FINES:	69	26	30		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

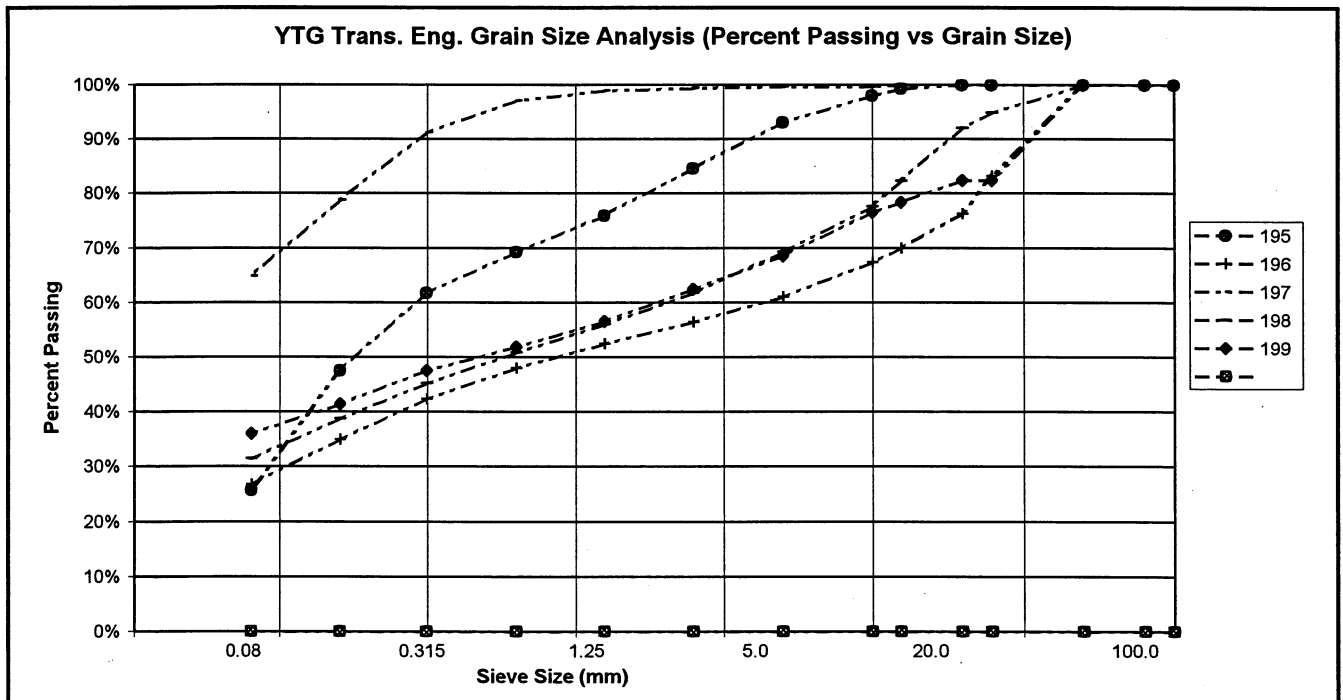


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1745+250 12M RT
 LOGGED BY: G.C.

HOLE No.: 543-1343

DATE COMP: 2000/05/10

FIELD NO:	195	196	197	198	199	
LAB NO:	500	501	502	503	504	
DEPTH:	0.8-1.0	1.8-2.0	2.2-2.4	3.6-4.0	4.4-4.7	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	83%	100%	95%	82%	
20.0	100%	76%	100%	92%	82%	
12.5	99%	70%	100%	82%	78%	
10.0	98%	67%	100%	78%	77%	
5.0	93%	61%	100%	69%	69%	
2.5	85%	56%	99%	62%	62%	
1.25	76%	52%	99%	56%	57%	
0.630	69%	48%	97%	51%	52%	
0.315	62%	42%	91%	45%	48%	
0.160	48%	35%	79%	39%	41%	
0.080	26%	27%	65%	31%	36%	
M.C.(%)	14%	10%	25%	12%	12%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	7	39	0	31	31	
% SAND:	67	34	35	38	32	
% FINES:	26	27	65	31	36	
CLASSIFICATION	SILTY SAND (SM)	SILTY GRAVEL WITH SAND (GM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	

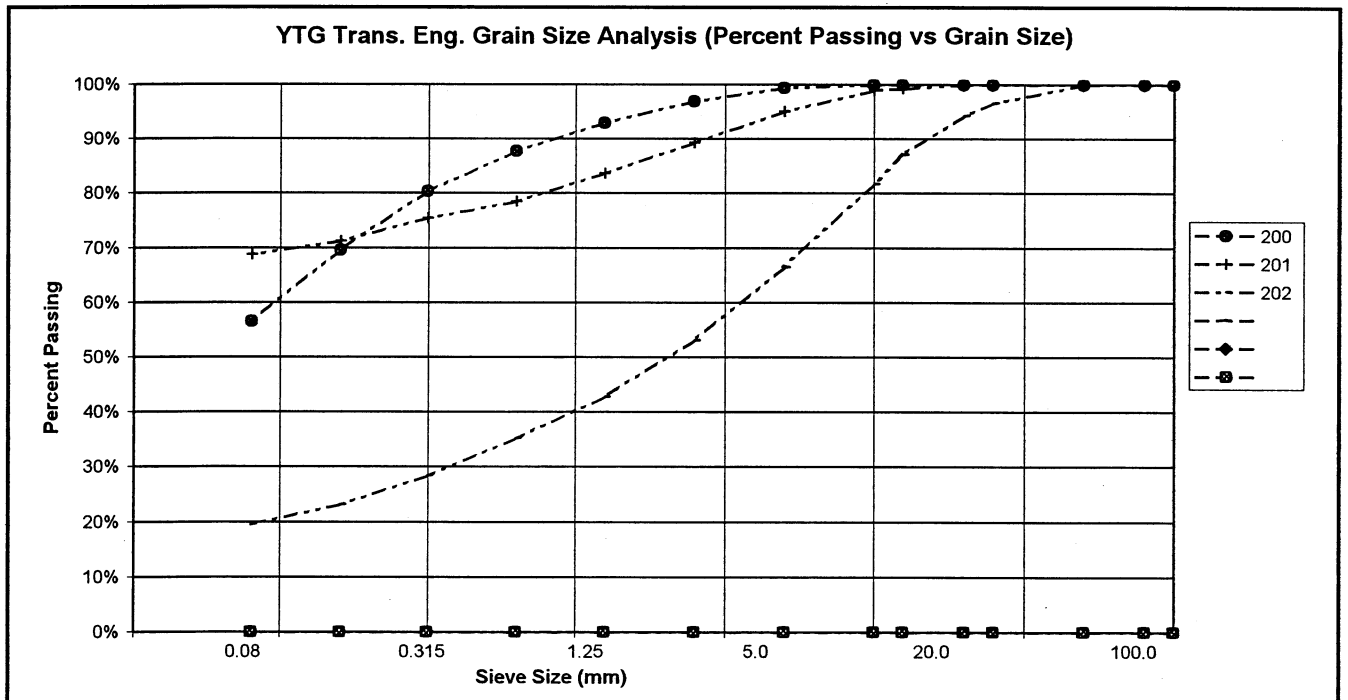


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+200 cl
 LOGGED BY: G.C.

HOLE No.: 543-1344

DATE COMP: 2000/05/10

FIELD NO:	200	201	202		
LAB NO:	505	506	507		
DEPTH:	1.2-1.5	2.6-3.0	3.8-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	97%		
20.0	100%	100%	94%		
12.5	100%	99%	87%		
10.0	100%	99%	82%		
5.0	99%	95%	66%		
2.5	97%	89%	53%		
1.25	93%	84%	43%		
0.630	88%	79%	35%		
0.315	80%	76%	28%		
0.160	70%	71%	23%		
0.080	57%	69%	20%		
M.C.(%)	63%	23%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	1	5	34		
% SAND:	43	26	47		
% FINES:	57	69	20		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

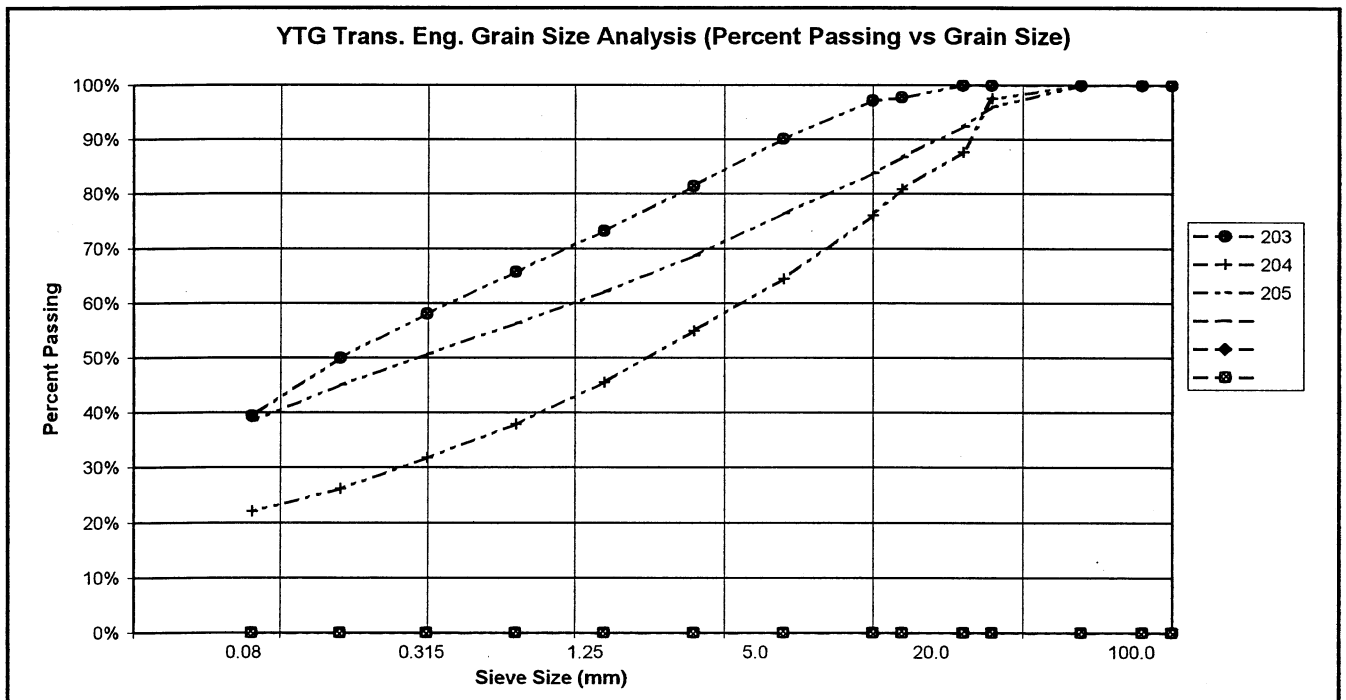


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+250 20M RT
 LOGGED BY: G.C.

HOLE No.: 543-1345

DATE COMP: 2000/05/10

FIELD NO:	203	204	205		
LAB NO:	508	509	510		
DEPTH:	1.0-1.5	2.5-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	98%	96%		
20.0	100%	88%	92%		
12.5	98%	81%	87%		
10.0	97%	76%	84%		
5.0	90%	64%	76%		
2.5	81%	55%	69%		
1.25	73%	45%	62%		
0.630	66%	38%	56%		
0.315	58%	32%	51%		
0.160	50%	26%	45%		
0.080	39%	22%	38%		
M.C.(%)	15%	9%	13%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	10	36	24		
% SAND:	51	42	38		
% FINES:	39	22	38		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

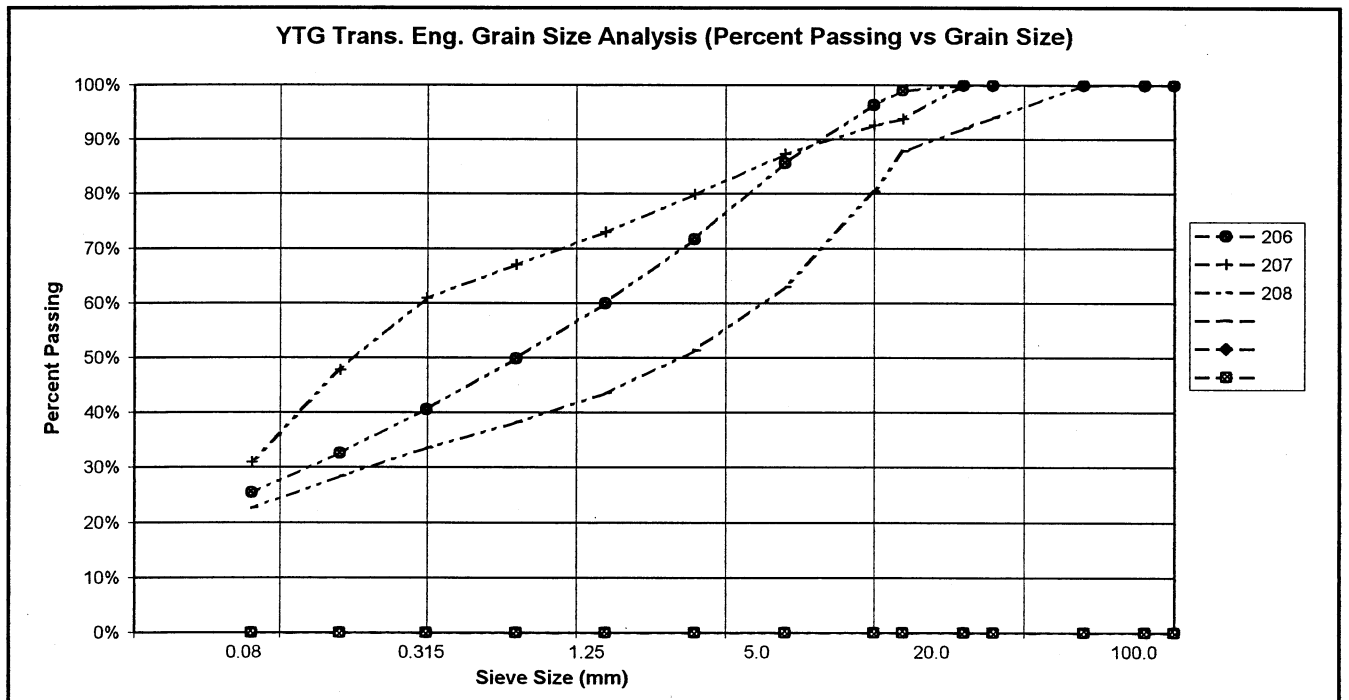


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+250 15M LT
 LOGGED BY: G.C.

HOLE No.: 543-1346

DATE COMP: 2000/05/10

FIELD NO:	206	207	208		
LAB NO:	511	512	513		
DEPTH:	1.0-1.5	1.8-2.0	2.8-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	94%		
20.0	100%	100%	92%		
12.5	99%	94%	88%		
10.0	96%	93%	80%		
5.0	86%	87%	63%		
2.5	72%	80%	51%		
1.25	60%	73%	44%		
0.630	50%	67%	38%		
0.315	41%	61%	34%		
0.160	33%	48%	28%		
0.080	25%	31%	23%		
M.C.(%)	21%	27%	25%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	14	13	37		
% SAND:	60	56	40		
% FINES:	25	31	23		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

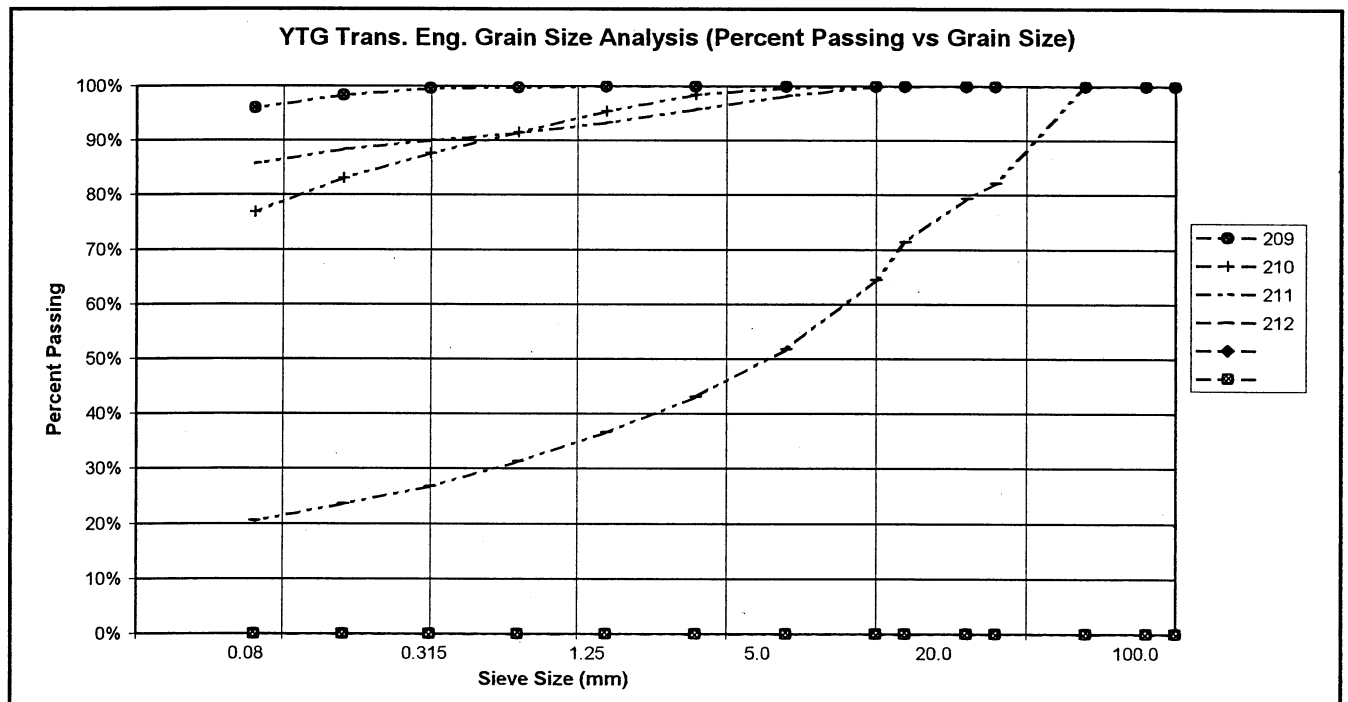


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+350 CL
 LOGGED BY: G.C.

HOLE No.: 543-1347

DATE COMP: 2000/05/10

FIELD NO:	209	210	211	212		
LAB NO:	514	515	516	517		
DEPTH:	1.0-1.5	1.8-2.0	2.8-3.0	3.8-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	82%		
20.0	100%	100%	100%	79%		
12.5	100%	100%	100%	71%		
10.0	100%	100%	100%	64%		
5.0	100%	100%	98%	52%		
2.5	100%	98%	96%	43%		
1.25	100%	95%	93%	37%		
0.630	100%	92%	91%	31%		
0.315	100%	88%	90%	27%		
0.160	98%	83%	88%	24%		
0.080	96%	77%	86%	21%		
M.C.(%):	72%	36%	51%	13%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	2	48		
% SAND:	4	23	12	31		
% FINES:	96	77	86	21		
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)	SILT (ML)	SILTY GRAVEL WITH SAND (GM)		

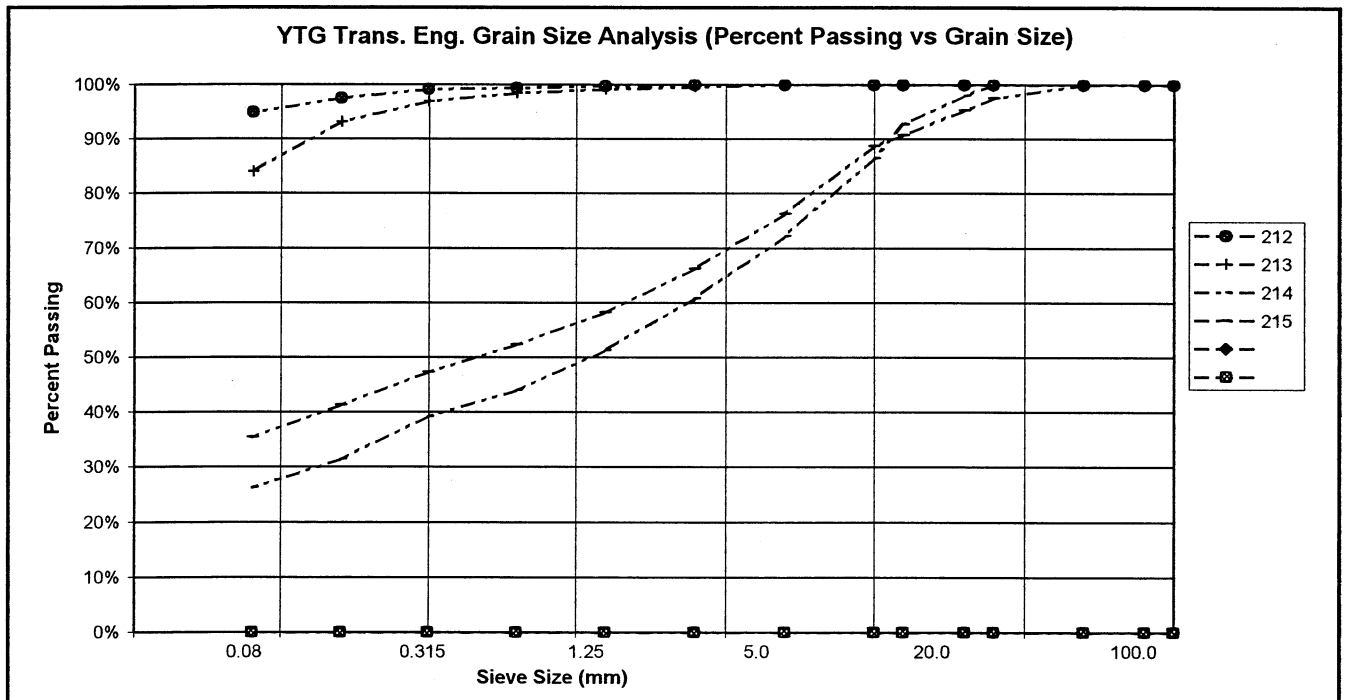


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+450 CL
 LOGGED BY: G.C.

HOLE No.: 543-1348

DATE COMP: 2000/05/10

FIELD NO:	212	213	214	215		
LAB NO:	518	519	520	521		
DEPTH:	1.3-1.5	2.8-3.0	3.0-3.5	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	98%		
20.0	100%	100%	98%	95%		
12.5	100%	100%	93%	91%		
10.0	100%	100%	86%	89%		
5.0	100%	100%	72%	76%		
2.5	100%	100%	61%	66%		
1.25	100%	99%	51%	58%		
0.630	99%	98%	44%	52%		
0.315	99%	97%	39%	47%		
0.160	98%	93%	31%	41%		
0.080	95%	84%	26%	35%		
M.C.(%)	46%	45%	10%	12%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	28	24		
% SAND:	5	16	46	41		
% FINES:	95	84	26	35		
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

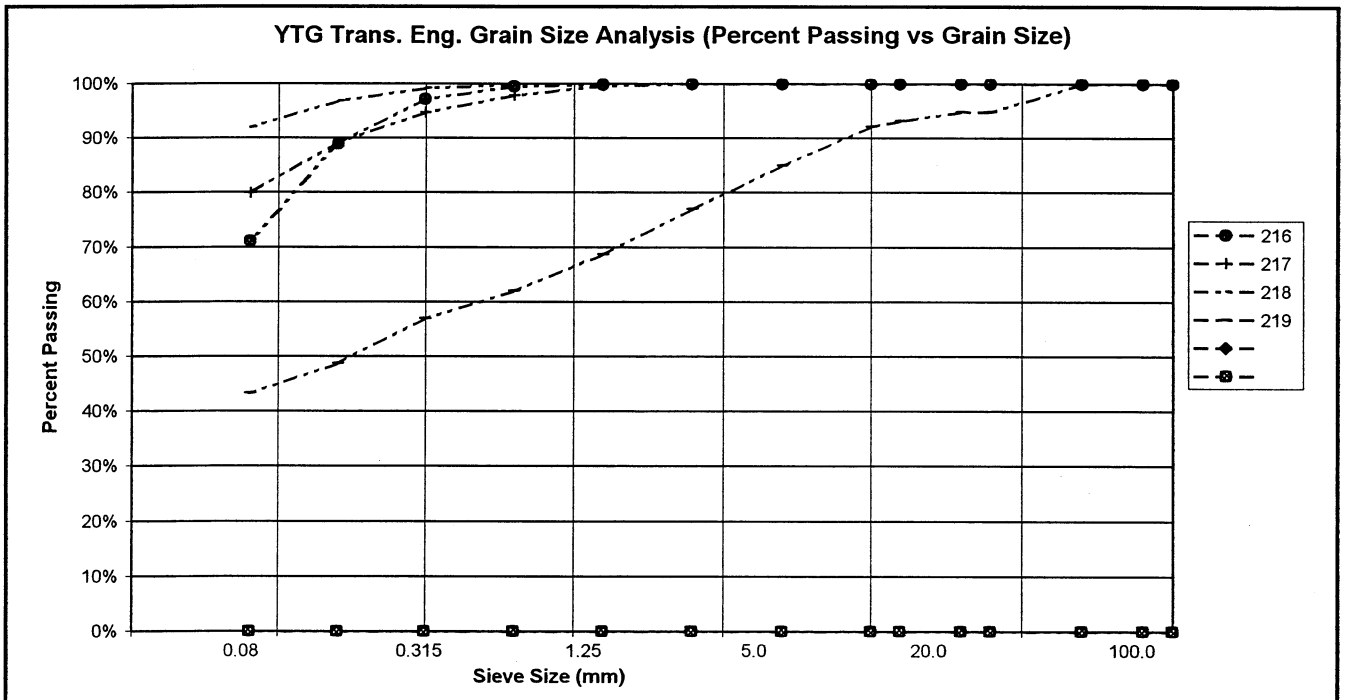


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+550 15M LT
 LOGGED BY: G.C.

HOLE No.: 543-1349

DATE COMP: 2000/05/10

FIELD NO:	216	217	218	219		
LAB NO:	522	523	524	525		
DEPTH:	1.6-1.8	2.5-2.7	3.0-3.2	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	95%		
20.0	100%	100%	100%	95%		
12.5	100%	100%	100%	93%		
10.0	100%	100%	100%	92%		
5.0	100%	100%	100%	85%		
2.5	100%	100%	100%	77%		
1.25	100%	100%	100%	69%		
0.630	100%	98%	100%	62%		
0.315	97%	95%	99%	57%		
0.160	89%	89%	97%	49%		
0.080	71%	80%	92%	43%		
M.C.(%):	32%	37%	57%	15%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	0	15		
% SAND:	29	20	8	42		
% FINES:	71	80	92	43		
CLASSIFICATION	SILT WITH SAND (ML)	SILT WITH SAND (ML)	SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

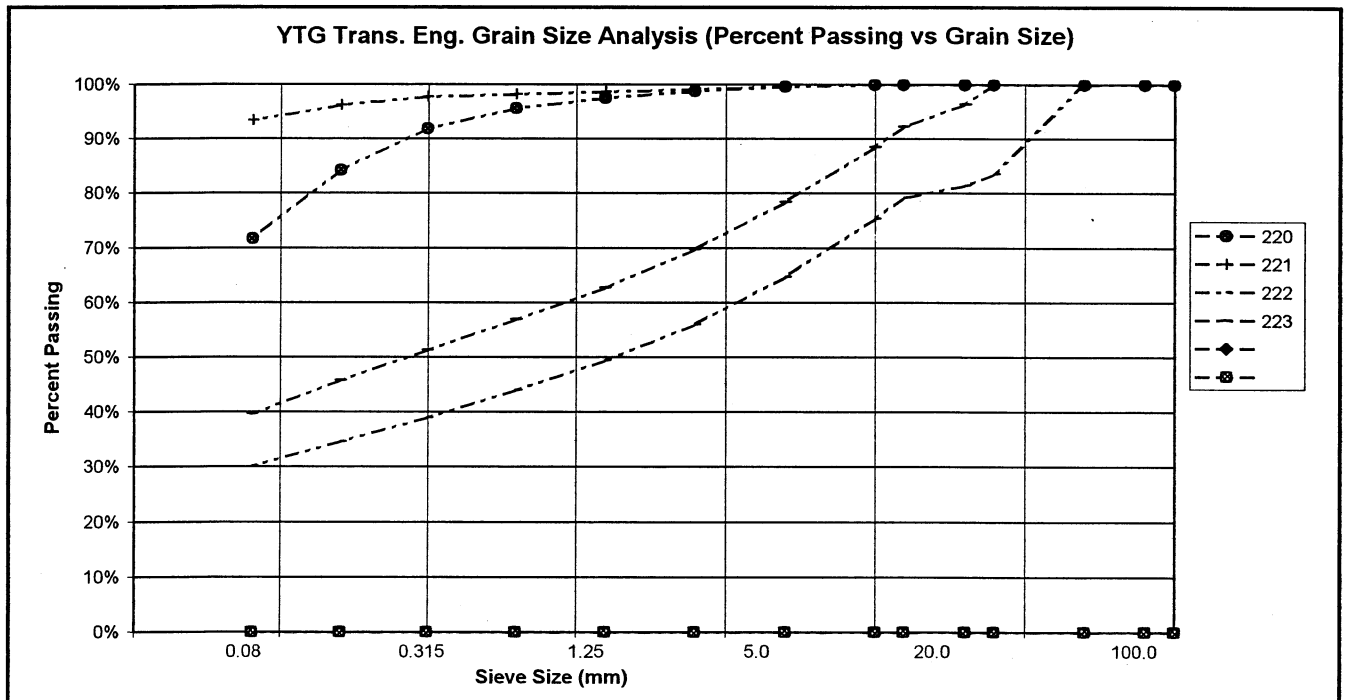


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+550 10M RT
 LOGGED BY: G.C.

HOLE No.: 543-1350

DATE COMP: 2000/05/10

FIELD NO:	220	221	222	223		
LAB NO:	526	527	528	529		
DEPTH:	1.0-1.5	2.2-2.5	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	84%	100%		
20.0	100%	100%	81%	96%		
12.5	100%	100%	79%	92%		
10.0	100%	100%	75%	89%		
5.0	100%	100%	65%	78%		
2.5	99%	99%	56%	70%		
1.25	98%	99%	49%	63%		
0.630	96%	98%	44%	57%		
0.315	92%	98%	39%	51%		
0.160	84%	96%	35%	46%		
0.080	72%	93%	30%	40%		
M.C.(%)	40%	77%	13%	13%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	35	22		
% SAND:	28	6	35	39		
% FINES:	72	93	30	40		
CLASSIFICATION	SILT WITH SAND (ML)	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

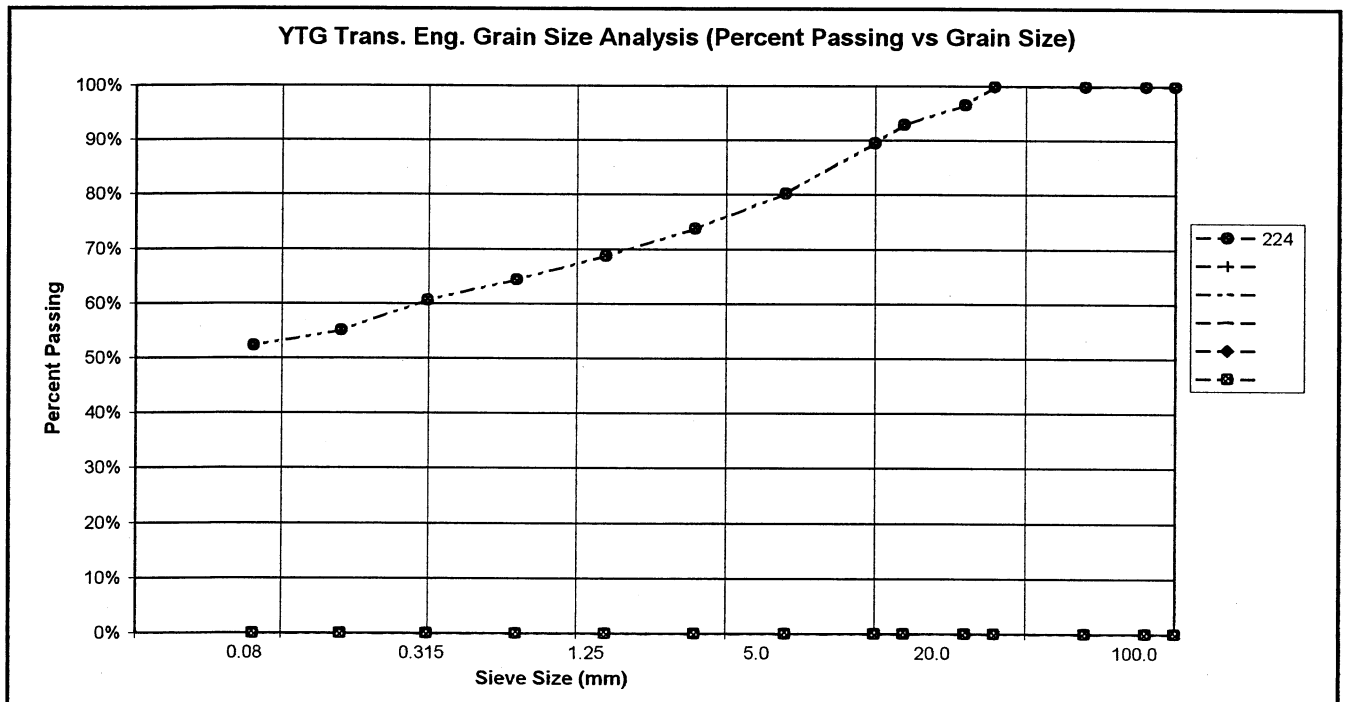


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+650 20M LT
 LOGGED BY: G.C.

HOLE No.: 543-1351

DATE COMP: 2000/05/10

FIELD NO:	224				
LAB NO:	530				
DEPTH:	1.0-1.4				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	97%				
12.5	93%				
10.0	90%				
5.0	80%				
2.5	74%				
1.25	69%				
0.630	64%				
0.315	61%				
0.160	55%				
0.080	52%				
M.C.(%):	40%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	20				
% SAND:	28				
% FINES:	52				
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)				

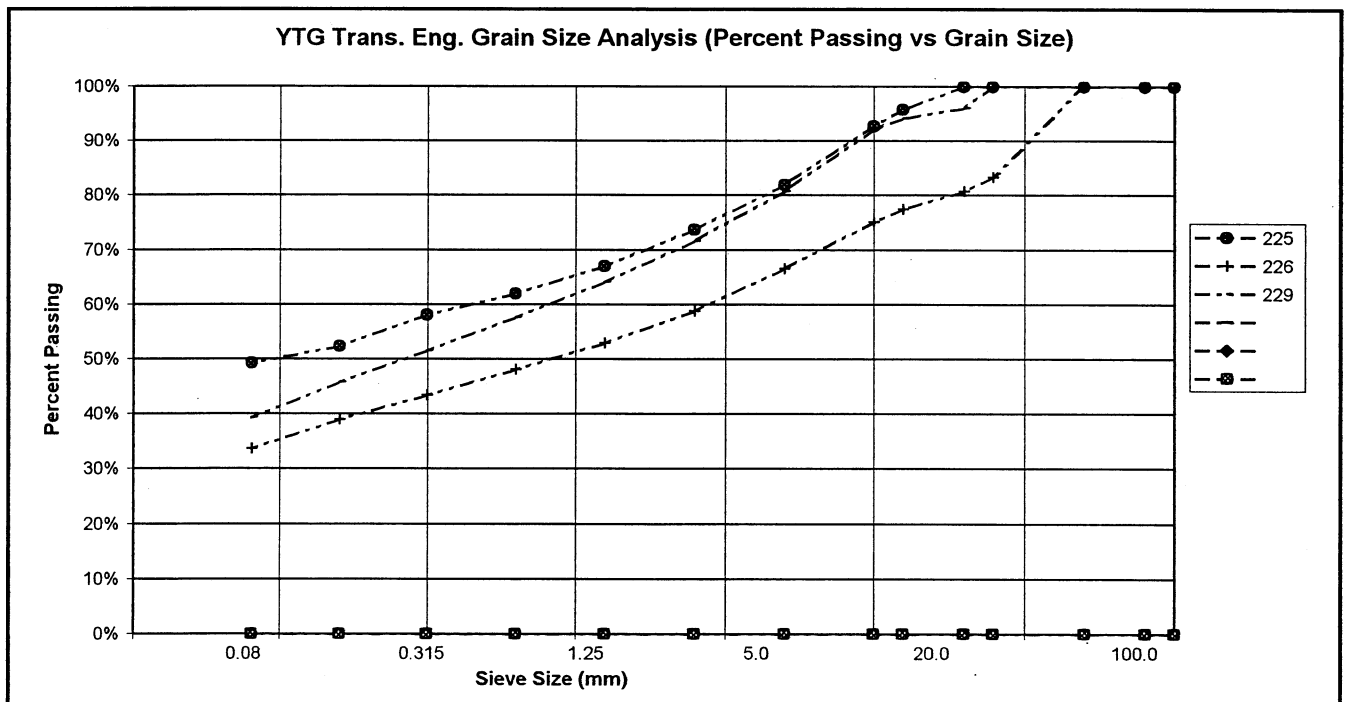


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+500 5M LT
 LOGGED BY: G.C.

HOLE No.: 543-1352

DATE COMP: 2000/05/10

FIELD NO:	225	226	229		
LAB NO:	531	532	533		
DEPTH:	1.0-1.4	2.5-3.0	3.5-3.8		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	83%	100%		
20.0	100%	81%	96%		
12.5	96%	77%	94%		
10.0	93%	75%	92%		
5.0	82%	67%	81%		
2.5	74%	59%	72%		
1.25	67%	53%	64%		
0.630	62%	48%	58%		
0.315	58%	43%	52%		
0.160	52%	39%	46%		
0.080	49%	34%	39%		
M.C.(%)	15%	11%	11%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	18	33	19		
% SAND:	33	33	41		
% FINES:	49	34	39		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

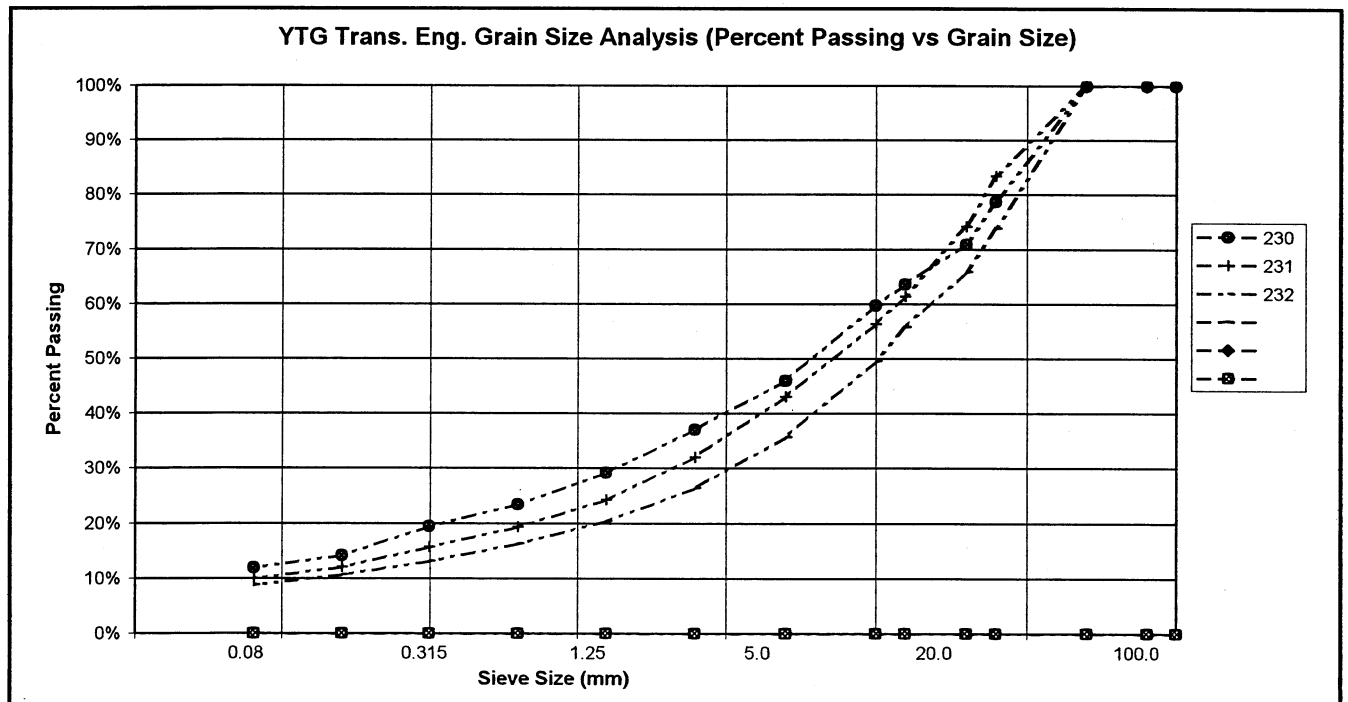


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+750 15M LT
 LOGGED BY: G.C.

HOLE No.: 543-1353

DATE COMP: 2000/05/10

FIELD NO:	230	231	232		
LAB NO:	534	535	536		
DEPTH:	1.3-1.5	2.5-3.0	3.5-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	79%	83%	74%		
20.0	71%	74%	66%		
12.5	64%	61%	56%		
10.0	60%	56%	49%		
5.0	46%	43%	36%		
2.5	37%	32%	26%		
1.25	29%	24%	20%		
0.630	23%	19%	16%		
0.315	20%	16%	13%		
0.160	14%	12%	11%		
0.080	12%	10%	9%		
M.C.(%):	5%	6%	3%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	54	57	64		
% SAND:	34	33	27		
% FINES:	12	10	9		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)		

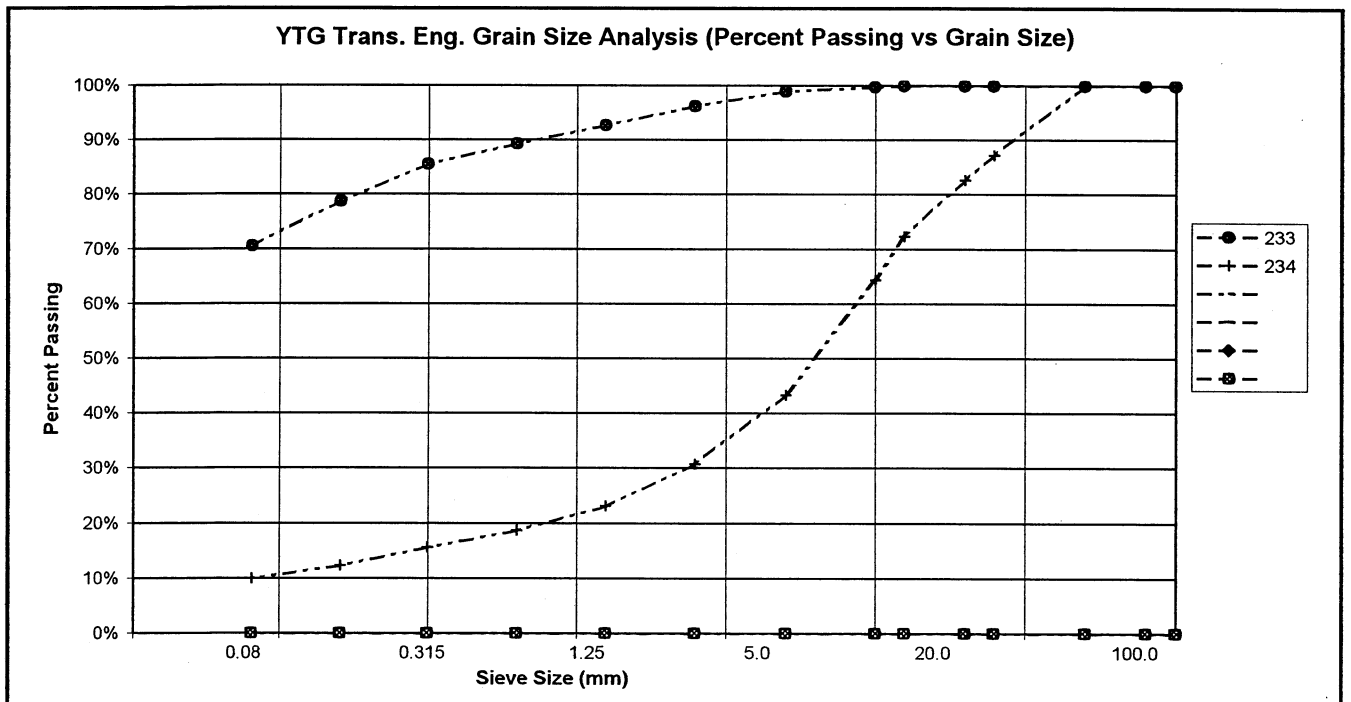


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+750 15M RT
 LOGGED BY: G.C.

HOLE No.: 543-1354

DATE COMP: 2000/05/10

FIELD NO:	233	234			
LAB NO:	537	538			
DEPTH:	0.8-1.0	2.5-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	87%			
20.0	100%	83%			
12.5	100%	72%			
10.0	100%	64%			
5.0	99%	43%			
2.5	96%	31%			
1.25	93%	23%			
0.630	89%	19%			
0.315	86%	16%			
0.160	79%	12%			
0.080	71%	10%			
M.C.(%):	17%	3%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	57			
% SAND:	28	33			
% FINES:	71	10			
CLASSIFICATION	SILT WITH SAND (ML)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)			

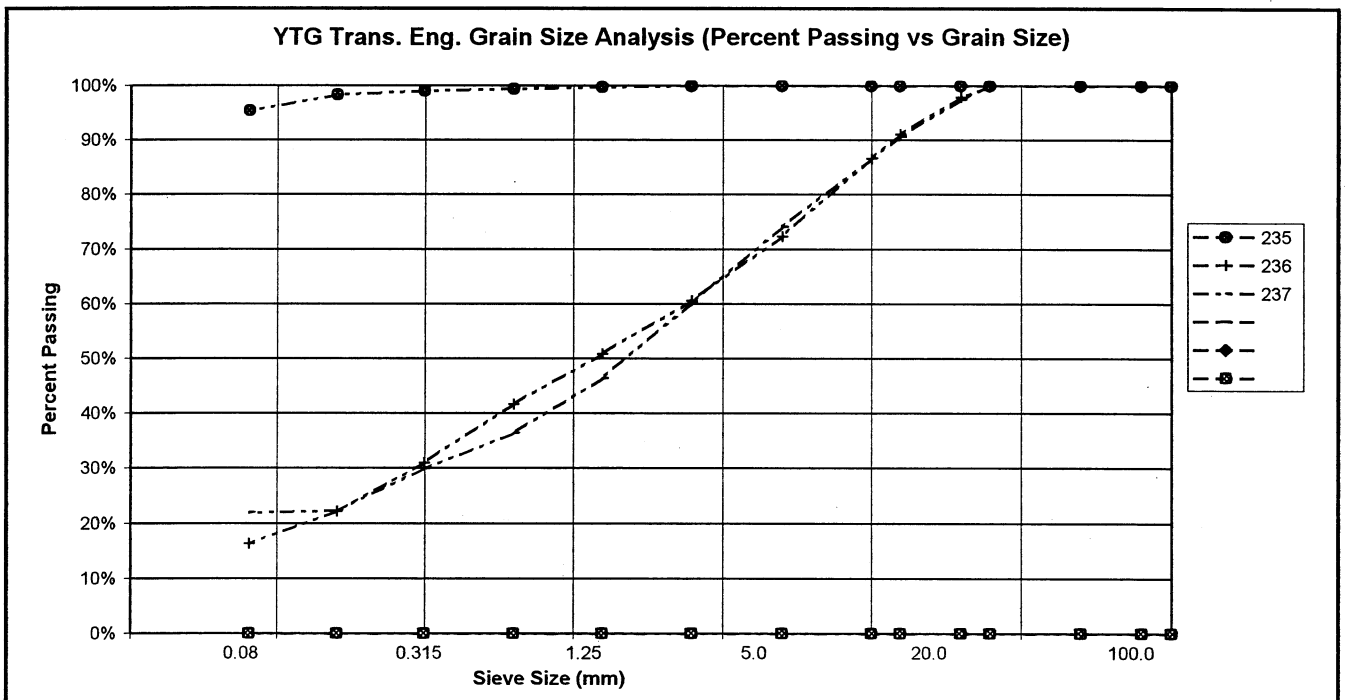


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1746+850 CL
 LOGGED BY: G.C.

HOLE No.: 543-1355

DATE COMP: 2000/05/10

FIELD NO:	235	236	237		
LAB NO:	539	540	541		
DEPTH:	1.3-1.5	2.8-3.0	3.5-3.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	98%	97%		
12.5	100%	91%	91%		
10.0	100%	87%	87%		
5.0	100%	72%	74%		
2.5	100%	61%	60%		
1.25	100%	51%	46%		
0.630	99%	42%	36%		
0.315	99%	31%	30%		
0.160	98%	22%	22%		
0.080	95%	16%	22%		
M.C.(%):	74%	13%	12%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	28	26		
% SAND:	4	56	52		
% FINES:	95	16	22		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

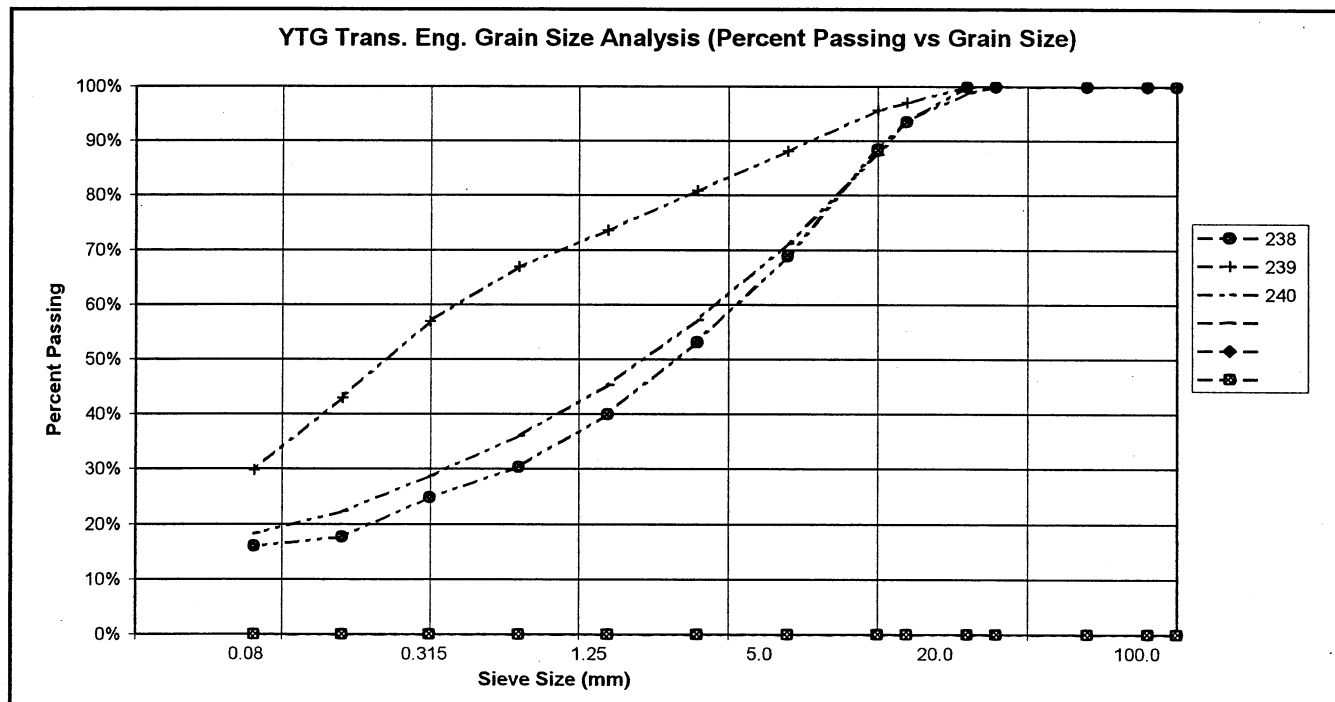


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+000 CL
 LOGGED BY: G.C.

HOLE No.: 543-1356

DATE COMP: 2000/05/10

FIELD NO:	238	239	240		
LAB NO:	542	543	544		
DEPTH:	1.3-1.5	2.0-2.5	2.8-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	99%		
12.5	94%	97%	94%		
10.0	88%	96%	87%		
5.0	69%	88%	71%		
2.5	53%	81%	57%		
1.25	40%	74%	45%		
0.630	30%	67%	36%		
0.315	25%	57%	29%		
0.160	18%	43%	22%		
0.080	16%	30%	18%		
M.C.(%):	13%	20%	12%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	31	12	29		
% SAND:	53	58	53		
% FINES:	16	30	18		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

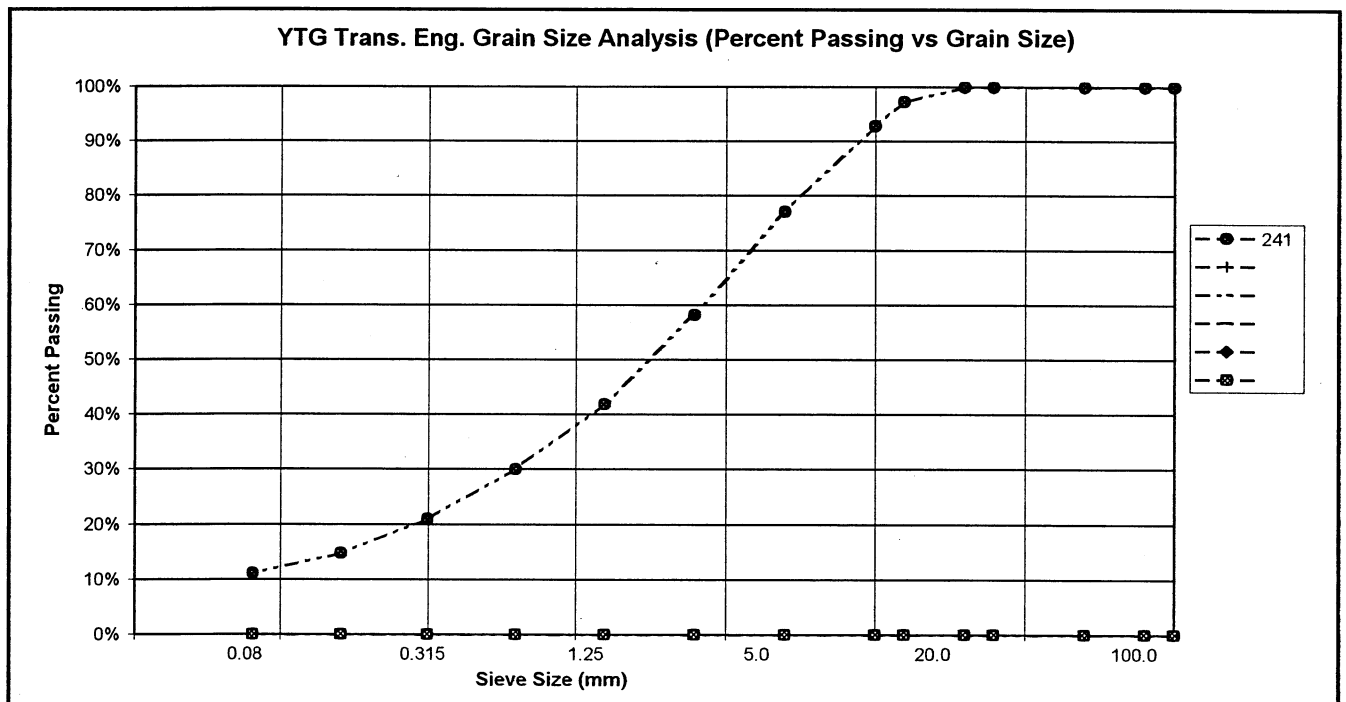


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+125 CL
 LOGGED BY: G.C.

HOLE No.: 543-1357

DATE COMP: 2000/05/10

FIELD NO:	241				
LAB NO:	545				
DEPTH:	1.0-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	100%				
12.5	97%				
10.0	93%				
5.0	77%				
2.5	58%				
1.25	42%				
0.630	30%				
0.315	21%				
0.160	15%				
0.080	11%				
M.C.(%):	8%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	23				
% SAND:	66				
% FINES:	11				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				

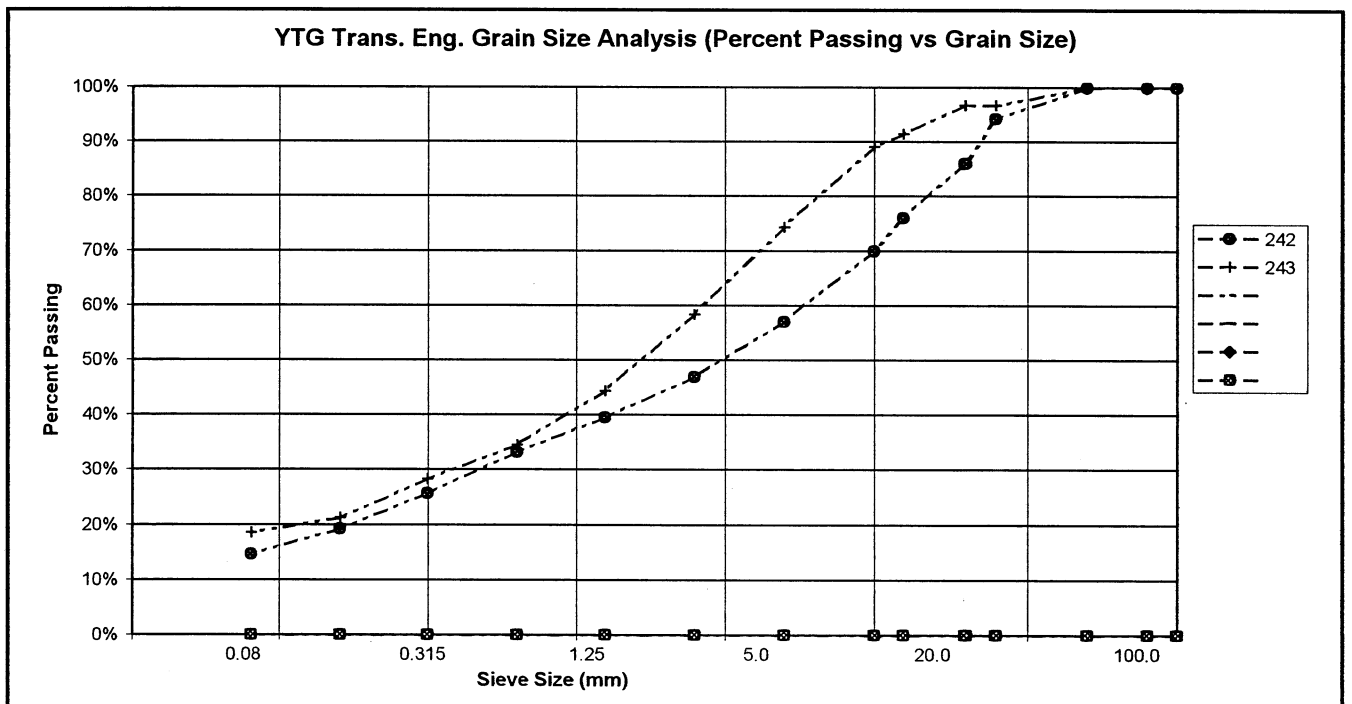


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+225 20M LT
 LOGGED BY: G.C.

HOLE No.: 543-1358

DATE COMP: 2000/05/10

FIELD NO:	242	243			
LAB NO:	546	547			
DEPTH:	1.3-1.5	2.2-2.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	94%	97%			
20.0	86%	97%			
12.5	76%	91%			
10.0	70%	89%			
5.0	57%	74%			
2.5	47%	58%			
1.25	40%	44%			
0.630	33%	34%			
0.315	26%	28%			
0.160	19%	21%			
0.080	15%	19%			
M.C.(%):	12%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	43	26			
% SAND:	42	56			
% FINES:	15	19			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)			

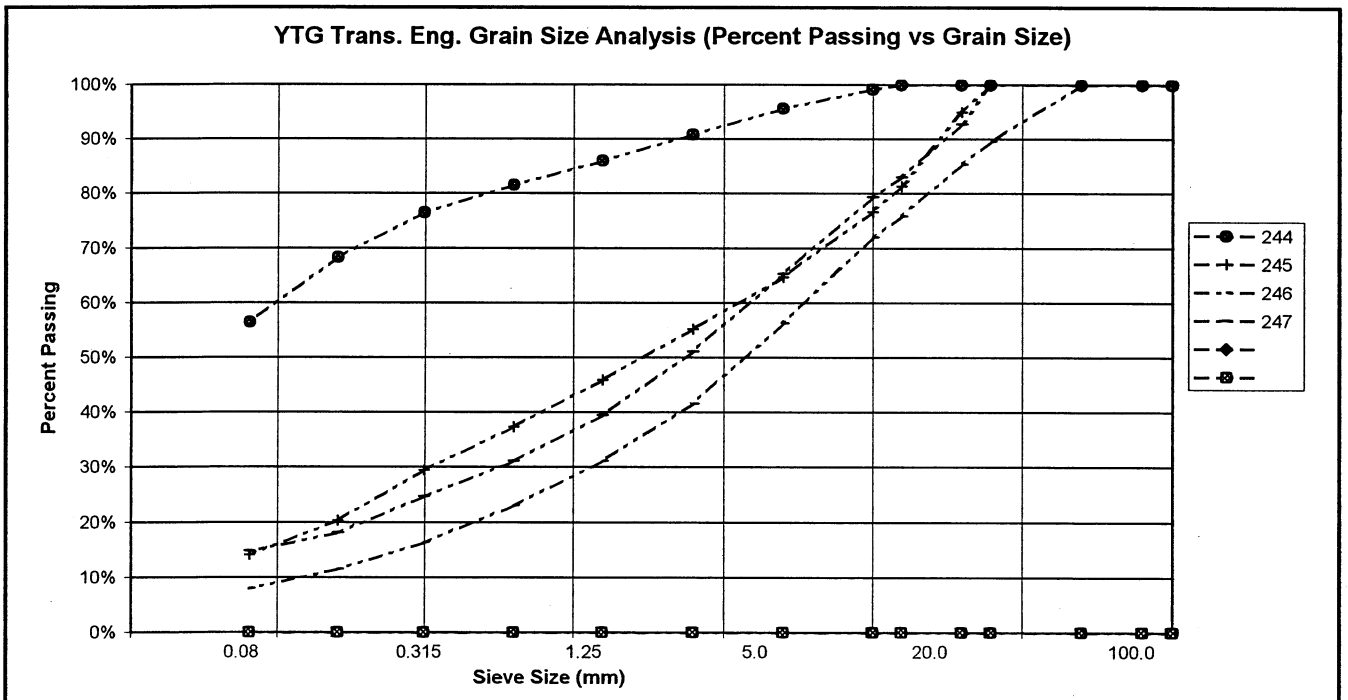


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+225 20M RT
 LOGGED BY: G.C.

HOLE No.: 543-1359

DATE COMP: 2000/05/10

FIELD NO:	244	245	246	247		
LAB NO:	548	549	550	551		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	90%	100%		
20.0	100%	95%	85%	93%		
12.5	100%	81%	76%	83%		
10.0	99%	77%	72%	79%		
5.0	96%	65%	56%	65%		
2.5	91%	55%	42%	51%		
1.25	86%	46%	31%	39%		
0.630	82%	37%	23%	31%		
0.315	77%	30%	16%	25%		
0.160	68%	20%	11%	18%		
0.080	56%	14%	8%	15%		
M.C.(%)	19%	4%	2%	4%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	4	35	44	35		
% SAND:	39	51	48	50		
% FINES:	56	14	8	15		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)		

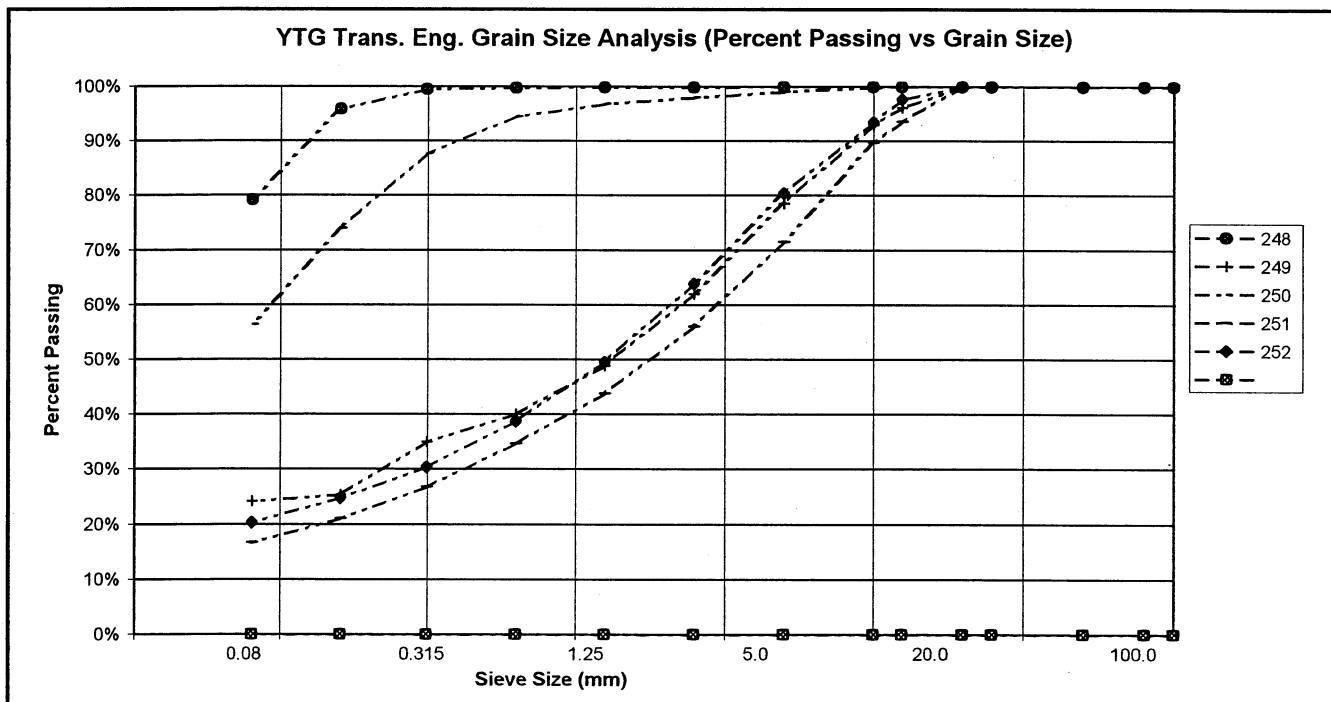


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+300 CL
 LOGGED BY: G.C.

HOLE No.: 543-1360

DATE COMP: 2000/05/12

FIELD NO:	248	249	250	251	252	
LAB NO:	552	553	554	555	556	
DEPTH:	1.0-1.3	1.6-1.8	2.0-2.2	2.8-3.0	4.0-4.5	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	100%	100%	100%	100%	
20.0	100%	100%	100%	100%	100%	
12.5	100%	96%	100%	94%	98%	
10.0	100%	93%	100%	90%	93%	
5.0	100%	78%	99%	71%	80%	
2.5	100%	62%	98%	56%	64%	
1.25	100%	49%	97%	44%	50%	
0.630	100%	40%	94%	35%	39%	
0.315	100%	35%	88%	27%	30%	
0.160	96%	25%	74%	21%	25%	
0.080	79%	24%	56%	17%	20%	
M.C.(%):	48%	11%	37%	12%	10%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	0	22	1	29	20	
% SAND:	21	54	43	55	60	
% FINES:	79	24	56	17	20	
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	

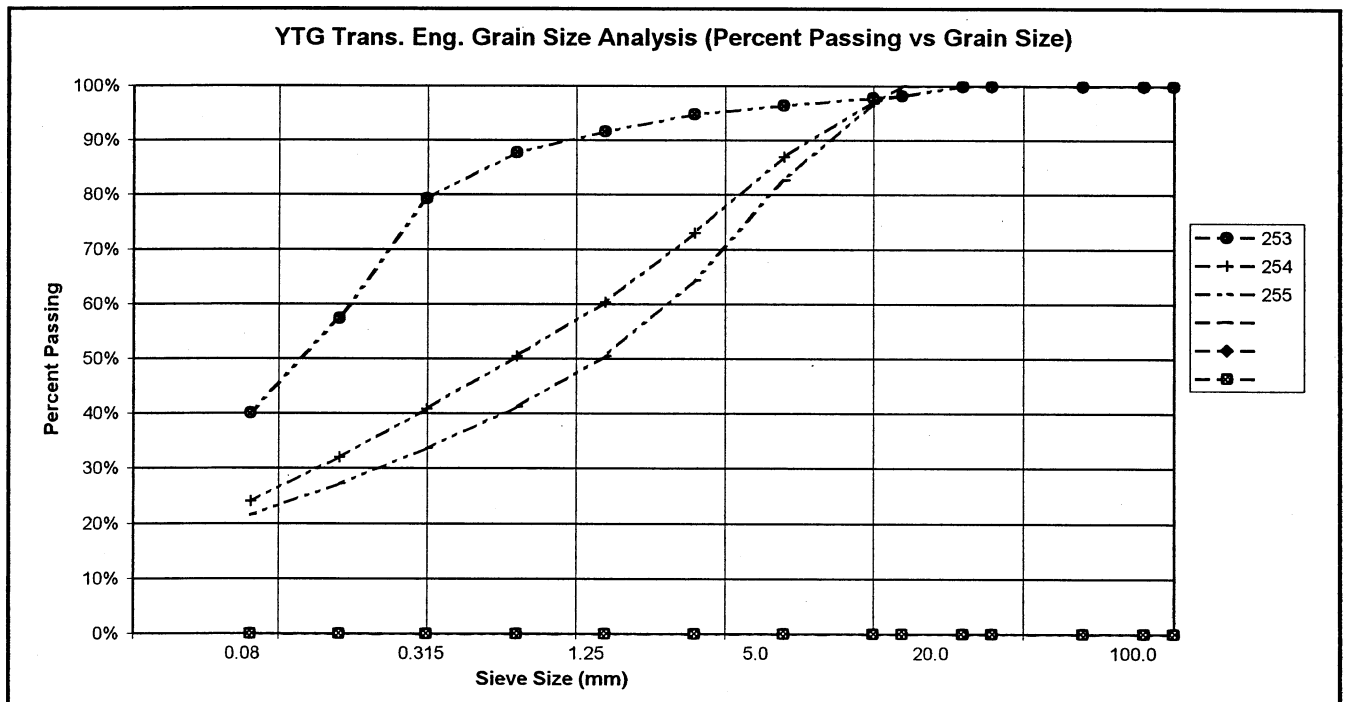


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+350 20M LT
 LOGGED BY: G.C.

HOLE No.: 543-1361

DATE COMP: 2000/05/12

FIELD NO:	253	254	255		
LAB NO:	557	558	559		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	100%	100%		
12.5	98%	98%	100%		
10.0	98%	97%	97%		
5.0	96%	87%	83%		
2.5	95%	73%	64%		
1.25	92%	60%	50%		
0.630	88%	50%	41%		
0.315	79%	41%	34%		
0.160	57%	32%	27%		
0.080	40%	24%	22%		
M.C.(%)	18%	15%	14%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	4	13	17		
% SAND:	56	63	61		
% FINES:	40	24	22		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

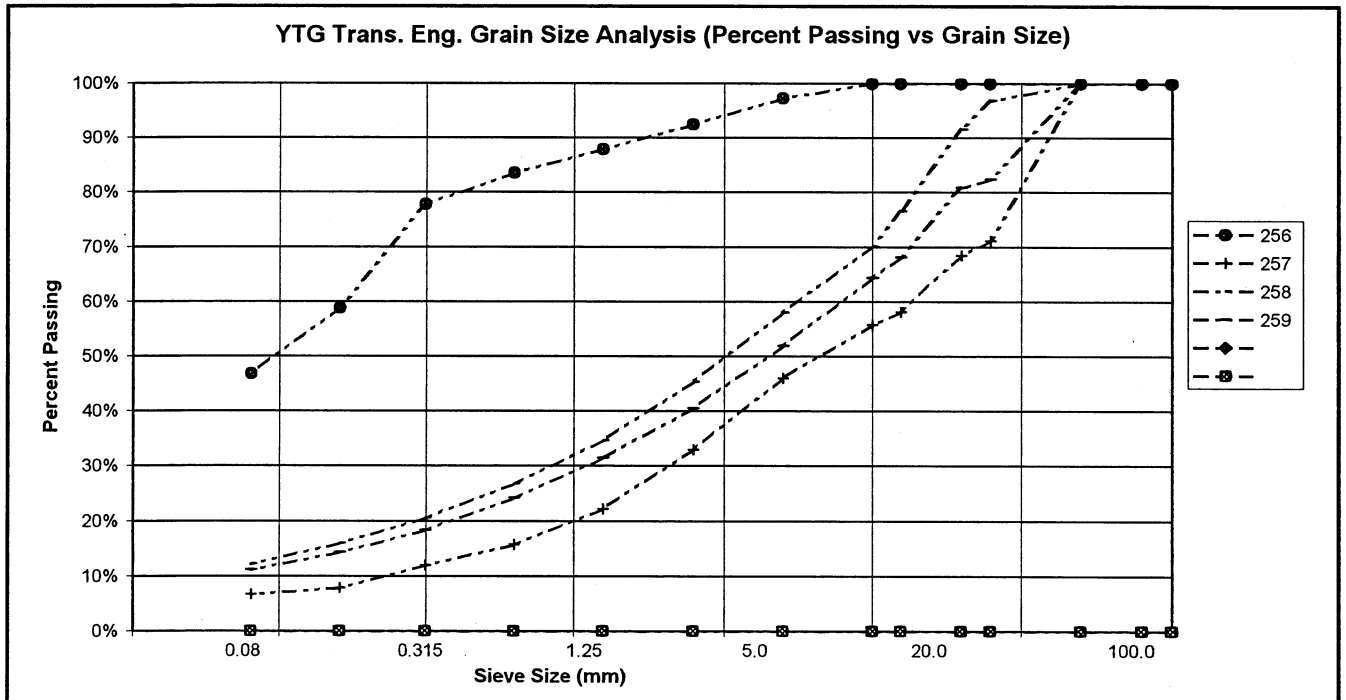


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+350 15M RT
 LOGGED BY: G.C.

HOLE No.: 543-1362

DATE COMP: 2000/05/12

FIELD NO:	256	257	258	259		
LAB NO:	560	561	562	563		
DEPTH:	0.8-1.2	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	71%	97%	82%		
20.0	100%	68%	92%	81%		
12.5	100%	58%	77%	68%		
10.0	100%	56%	70%	64%		
5.0	97%	46%	58%	52%		
2.5	93%	33%	45%	41%		
1.25	88%	22%	35%	31%		
0.630	84%	16%	27%	24%		
0.315	78%	12%	21%	18%		
0.160	59%	8%	16%	14%		
0.080	47%	7%	12%	11%		
M.C.(%)	14%	3%	3%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	3	54	42	48		
% SAND:	50	39	46	41		
% FINES:	47	7	12	11		
CLASSIFICATION	SILTY SAND (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

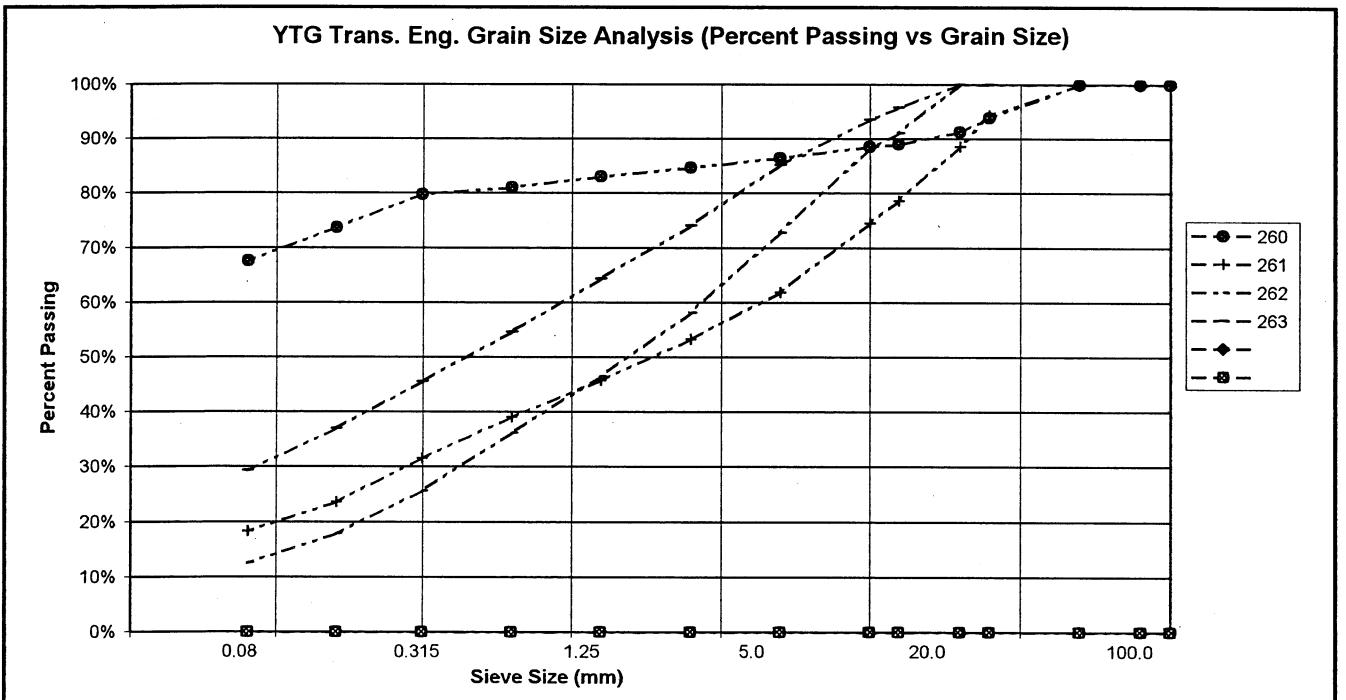


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+450 CL
 LOGGED BY: G.C.

HOLE No.: 543-1363

DATE COMP: 2000/05/12

FIELD NO:	260	261	262	263		
LAB NO:	564	565	566	567		
DEPTH:	1.0-1.2	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	94%	94%	100%	100%		
20.0	91%	89%	100%	100%		
12.5	89%	79%	91%	96%		
10.0	89%	75%	88%	94%		
5.0	86%	62%	73%	85%		
2.5	85%	53%	58%	74%		
1.25	83%	46%	46%	64%		
0.630	81%	39%	36%	55%		
0.315	80%	32%	26%	45%		
0.160	74%	24%	18%	37%		
0.080	68%	18%	13%	29%		
M.C.(%):	7%	2%	2%	11%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	14	38	27	15		
% SAND:	19	44	60	56		
% FINES:	68	18	13	29		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

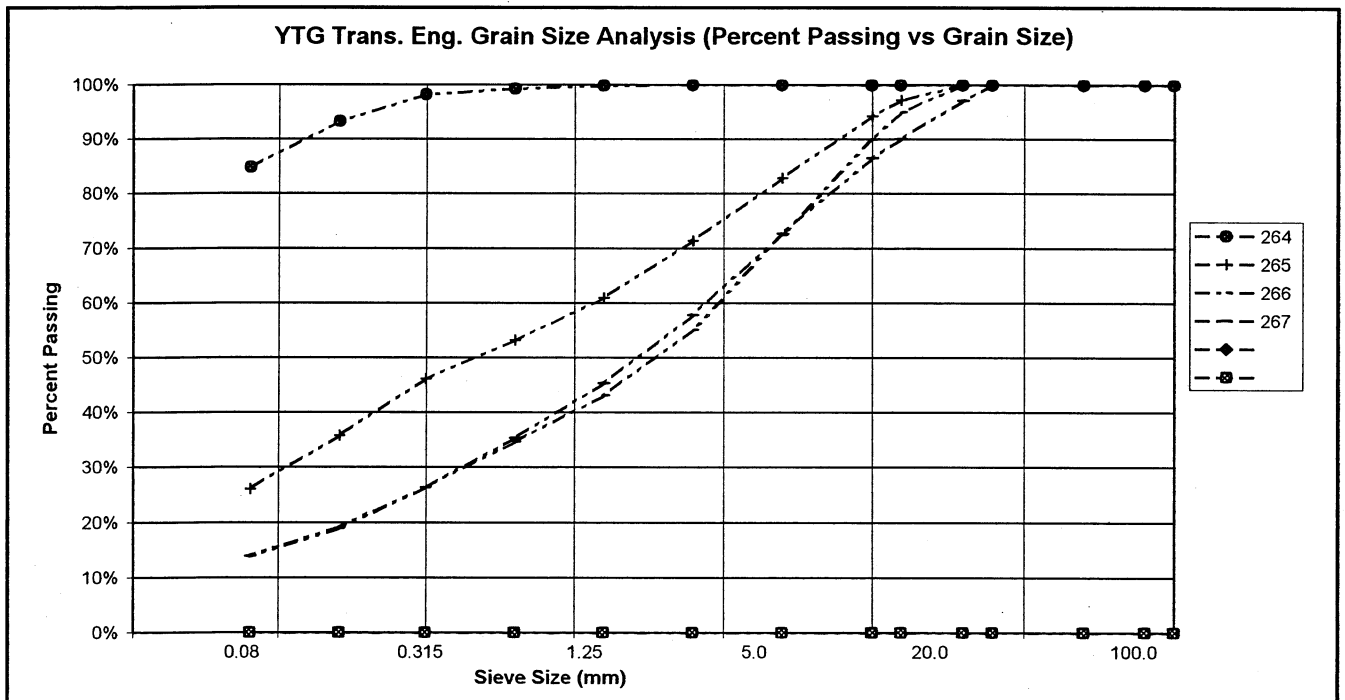


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+500 CL
 LOGGED BY: G.C.

HOLE No.: 543-1364

DATE COMP: 2000/05/12

FIELD NO:	264	265	266	267		
LAB NO:	568	569	570	571		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	97%		
12.5	100%	97%	95%	90%		
10.0	100%	94%	90%	87%		
5.0	100%	83%	72%	73%		
2.5	100%	71%	55%	58%		
1.25	100%	61%	43%	45%		
0.630	99%	53%	35%	35%		
0.315	98%	46%	26%	26%		
0.160	93%	36%	19%	19%		
0.080	85%	26%	14%	14%		
M.C.(%)	28%	12%	6%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	17	28	27		
% SAND:	15	57	58	59		
% FINES:	85	26	14	14		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

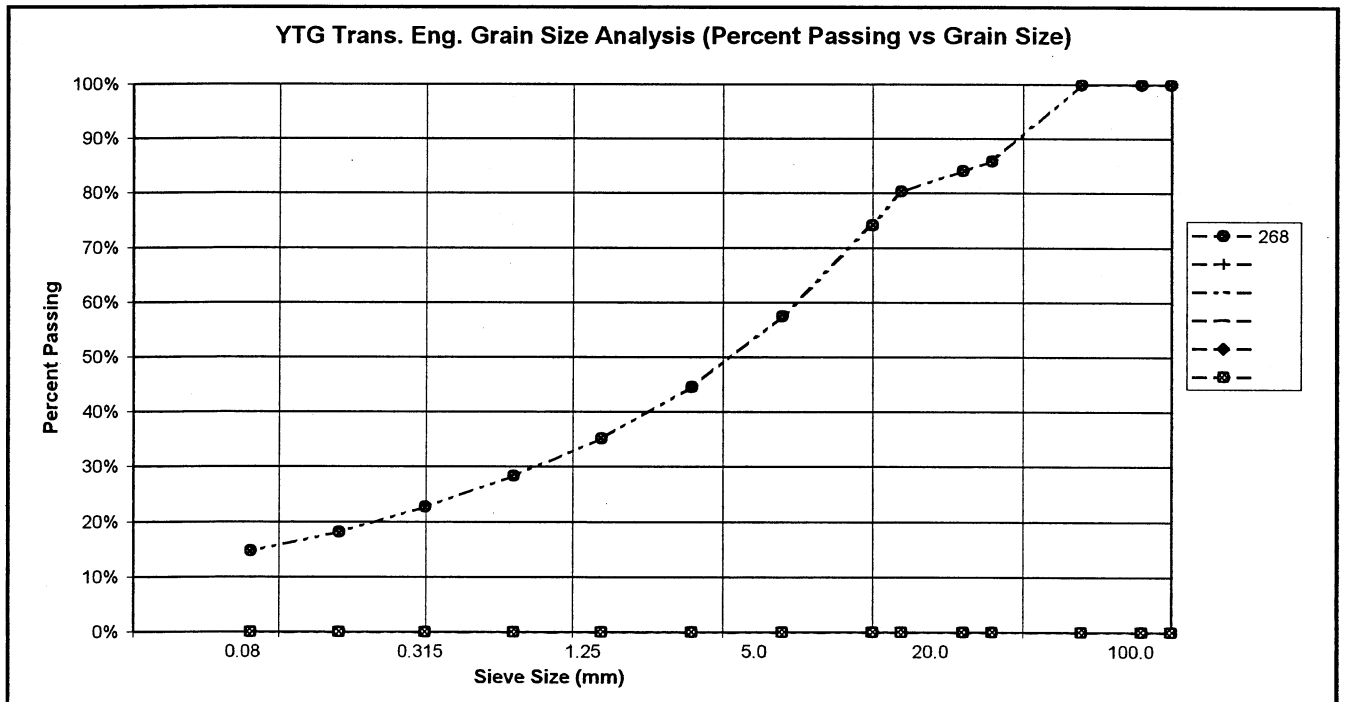


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+560 15M LT
 LOGGED BY: G.C.

HOLE No.: 543-1365

DATE COMP: 2000/05/12

FIELD NO:	268				
LAB NO:	572				
DEPTH:	3.0-3.2				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	86%				
20.0	84%				
12.5	80%				
10.0	74%				
5.0	57%				
2.5	45%				
1.25	35%				
0.630	28%				
0.315	23%				
0.160	18%				
0.080	15%				
M.C.(%):	12%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	43				
% SAND:	43				
% FINES:	15				
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)				

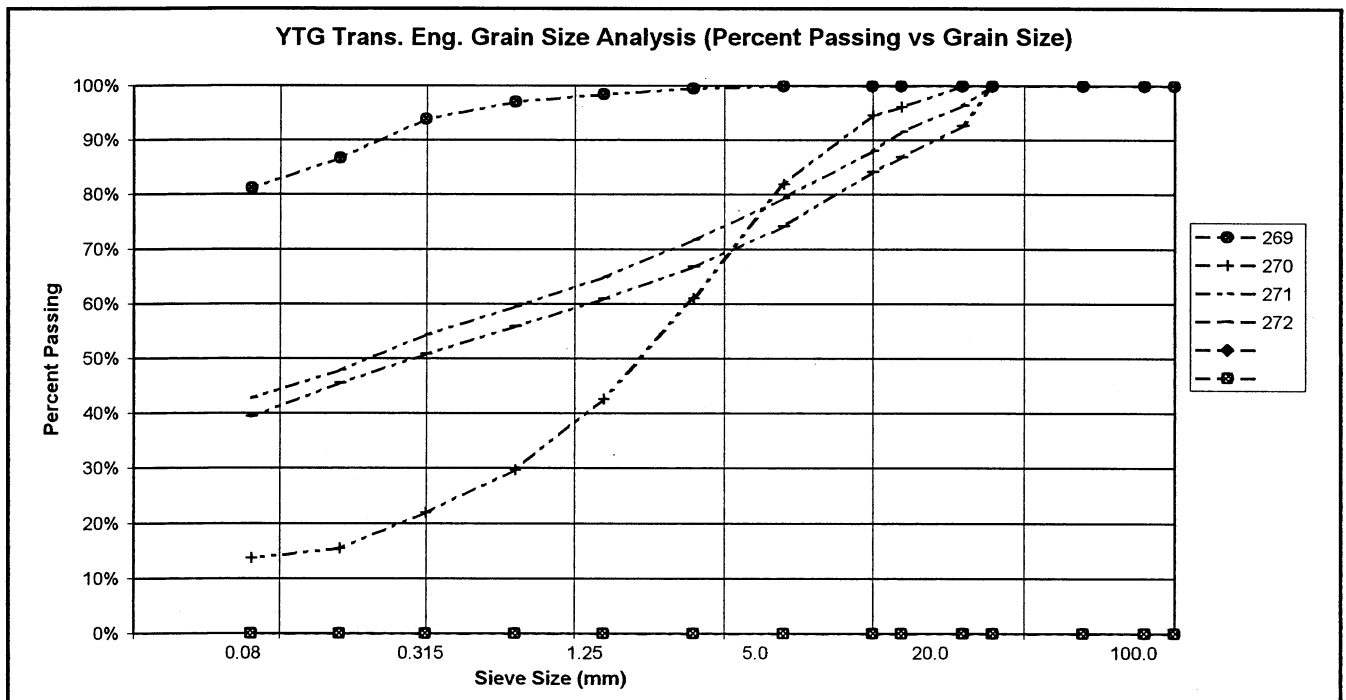


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+550 15M RT
 LOGGED BY: G.C.

HOLE No.: 543-1366

DATE COMP: 2000/05/12

FIELD NO:	269	270	271	272		
LAB NO:	573	574	575	576		
DEPTH:	0.8-1.0	1.8-2.0	3.0-3.2	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	96%	93%		
12.5	100%	96%	92%	87%		
10.0	100%	95%	88%	84%		
5.0	100%	82%	79%	74%		
2.5	100%	61%	72%	67%		
1.25	98%	43%	65%	61%		
0.630	97%	30%	59%	56%		
0.315	94%	22%	54%	51%		
0.160	87%	16%	48%	46%		
0.080	81%	14%	43%	39%		
M.C.(%)	96%	16%	17%	15%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	18	21	26		
% SAND:	19	68	36	35		
% FINES:	81	14	43	39		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

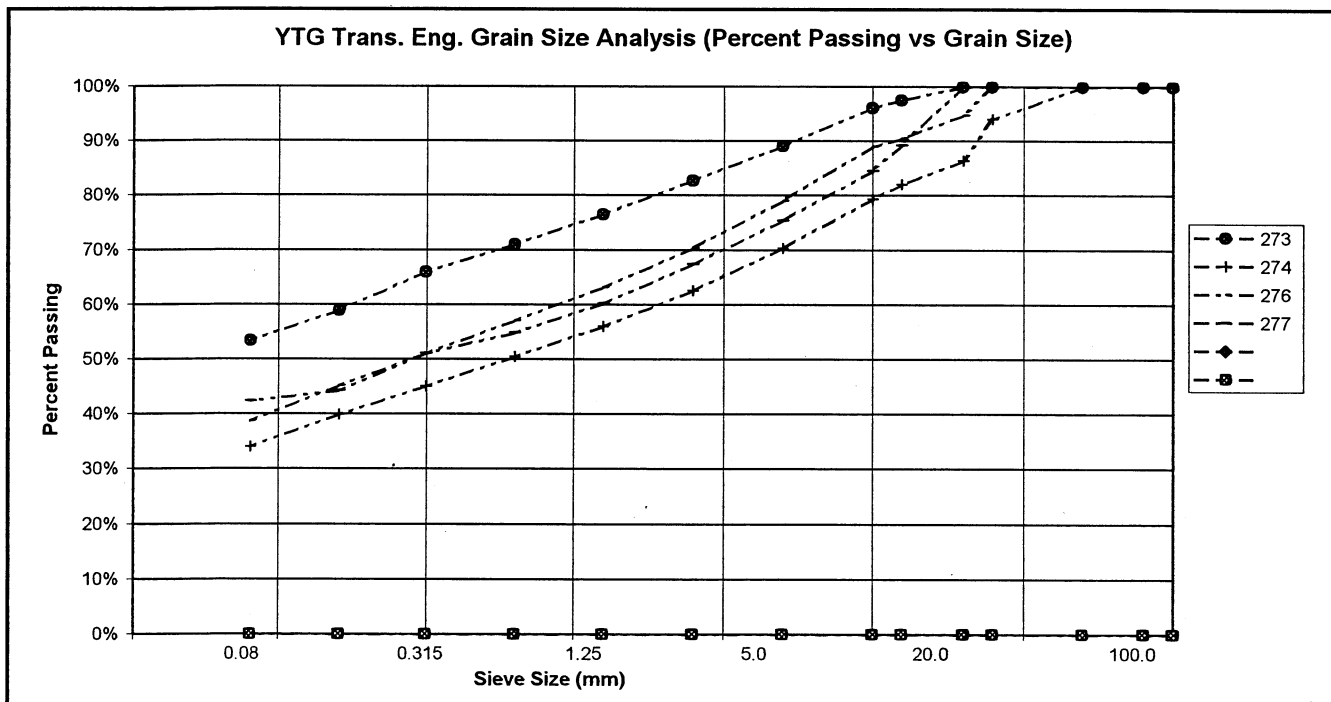


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+600 CL
 LOGGED BY: G.C.

HOLE No.: 543-1367

DATE COMP: 2000/05/12

FIELD NO:	273	274	276	277		
LAB NO:	577	578	579	580		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	94%	100%	100%		
20.0	100%	86%	95%	100%		
12.5	97%	82%	91%	89%		
10.0	96%	79%	89%	85%		
5.0	89%	70%	79%	75%		
2.5	83%	63%	70%	67%		
1.25	76%	56%	63%	60%		
0.630	71%	50%	57%	55%		
0.315	66%	45%	51%	51%		
0.160	59%	40%	45%	44%		
0.080	53%	34%	39%	42%		
M.C.(%)	6%	4%	7%	10%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	11	30	21	25		
% SAND:	36	36	40	33		
% FINES:	53	34	39	42		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

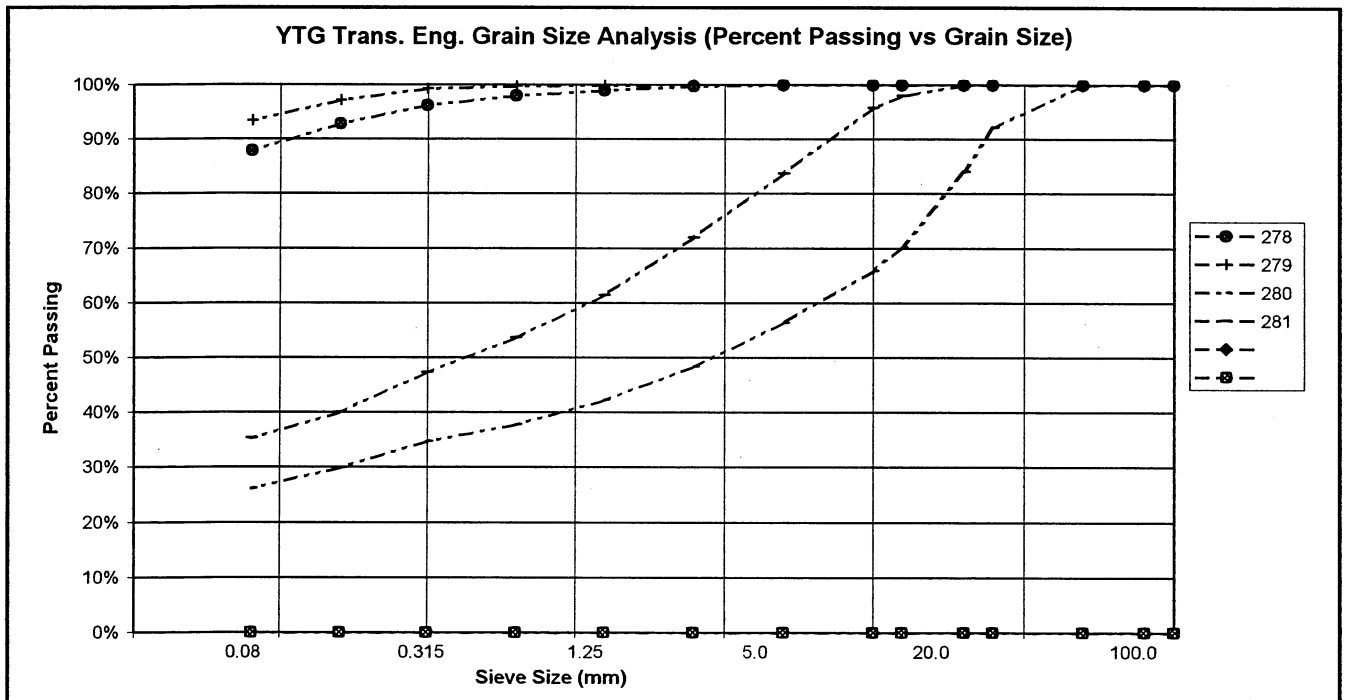


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+725 CL
 LOGGED BY: G.C.

HOLE No.: 543-1368

DATE COMP: 2000/05/12

FIELD NO:	278	279	280	281		
LAB NO:	581	582	583	584		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	92%	100%		
20.0	100%	100%	84%	100%		
12.5	100%	100%	70%	98%		
10.0	100%	100%	66%	96%		
5.0	100%	100%	56%	84%		
2.5	100%	100%	48%	72%		
1.25	99%	100%	42%	61%		
0.630	98%	100%	38%	54%		
0.315	96%	99%	35%	47%		
0.160	93%	97%	30%	40%		
0.080	88%	93%	26%	35%		
M.C.(%):	21%	39%	9%	10%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	44	16		
% SAND:	12	7	30	48		
% FINES:	88	93	26	35		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

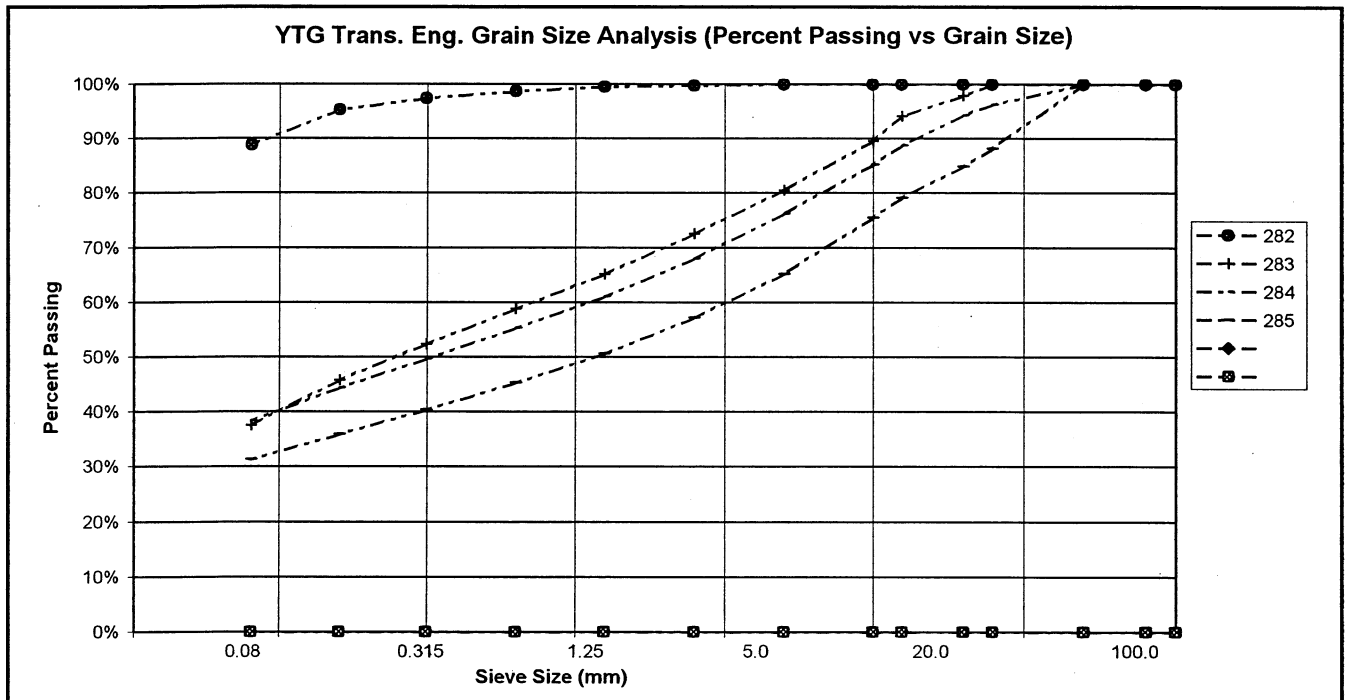


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+850 CL
 LOGGED BY: G.C.

HOLE No.: 543-1369

DATE COMP: 2000/05/12

FIELD NO:	282	283	284	285		
LAB NO:	585	586	587	588		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	96%	88%		
20.0	100%	98%	94%	85%		
12.5	100%	94%	89%	79%		
10.0	100%	90%	85%	76%		
5.0	100%	81%	76%	65%		
2.5	100%	73%	68%	57%		
1.25	99%	65%	61%	51%		
0.630	99%	59%	55%	45%		
0.315	97%	52%	50%	40%		
0.160	95%	46%	44%	36%		
0.080	89%	38%	38%	31%		
M.C.(%):	13%	12%	9%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	19	24	35		
% SAND:	11	43	38	34		
% FINES:	89	38	38	31		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

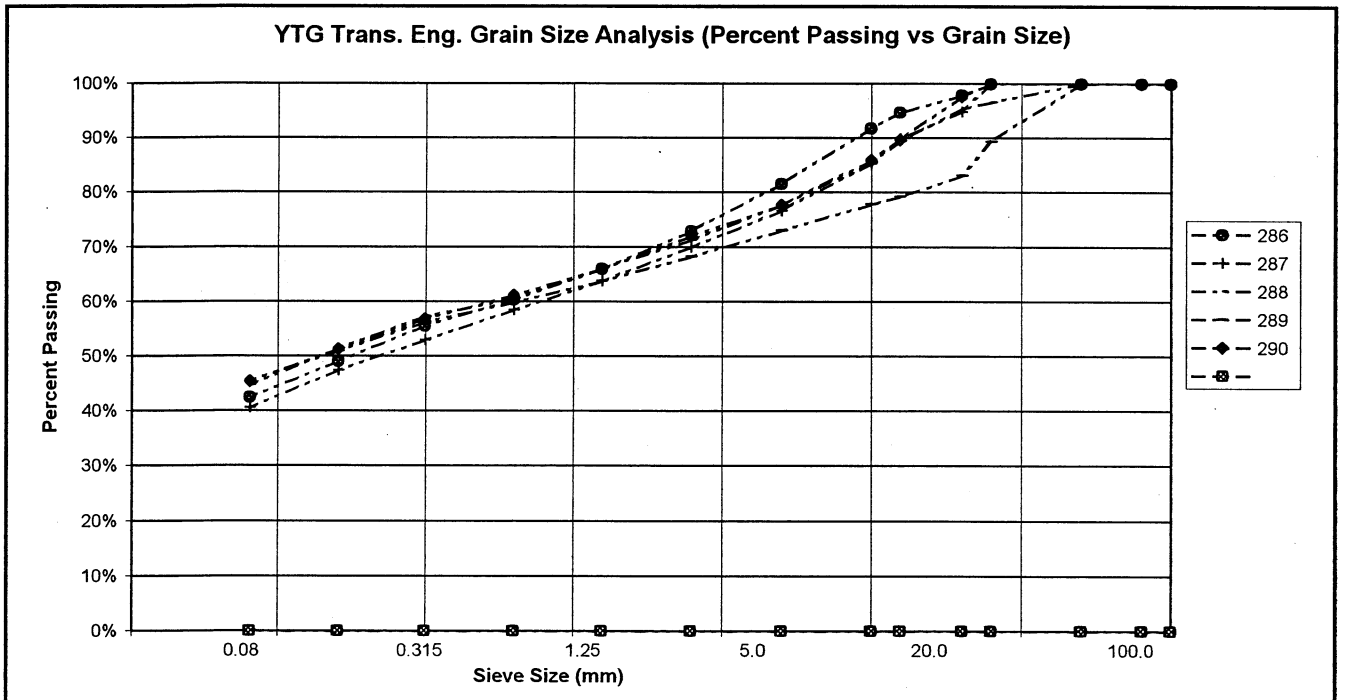


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1747+900 15M LT
 LOGGED BY: W.E.

HOLE No.: 544-1370

DATE COMP: 2000/05/15

FIELD NO:	286	287	288	289	290	
LAB NO:	589	590	591	592	593	
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	3.8-4.0	4.8-5.0	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	100%	100%	97%	89%	100%	
20.0	98%	95%	95%	83%	98%	
12.5	95%	90%	89%	79%	90%	
10.0	92%	85%	85%	78%	86%	
5.0	82%	77%	78%	73%	78%	
2.5	73%	70%	71%	68%	72%	
1.25	66%	64%	66%	64%	66%	
0.630	60%	58%	61%	60%	61%	
0.315	55%	53%	57%	56%	57%	
0.160	49%	47%	51%	51%	51%	
0.080	43%	41%	45%	46%	45%	
M.C.(%)	7%	5%	7%	8%	8%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX.:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	18	23	22	27	22	
% SAND:	39	36	33	28	32	
% FINES:	43	41	45	46	45	
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	

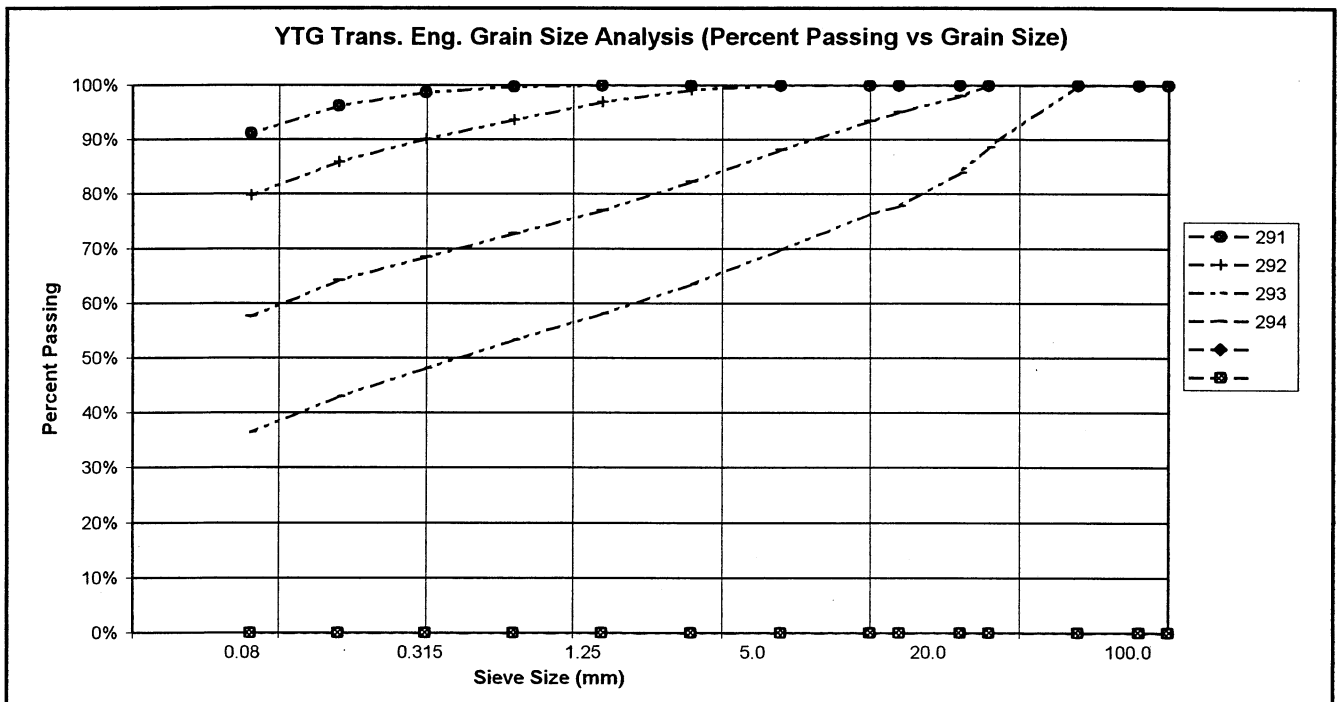


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+000 CL
 LOGGED BY: W.E.

HOLE No.: 544-1371

DATE COMP: 2000/05/15

FIELD NO:	291	292	293	294		
LAB NO:	594	595	596	597		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	3.8-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	89%	100%		
20.0	100%	100%	84%	98%		
12.5	100%	100%	78%	95%		
10.0	100%	100%	76%	93%		
5.0	100%	100%	70%	88%		
2.5	100%	99%	63%	82%		
1.25	100%	97%	58%	77%		
0.630	100%	94%	53%	73%		
0.315	99%	90%	48%	68%		
0.160	96%	86%	43%	64%		
0.080	91%	80%	37%	58%		
M.C.(%)	21%	56%	9%	13%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	30	12		
% SAND:	9	20	33	31		
% FINES:	91	80	37	58		
CLASSIFICATION	SILT (ML)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)		

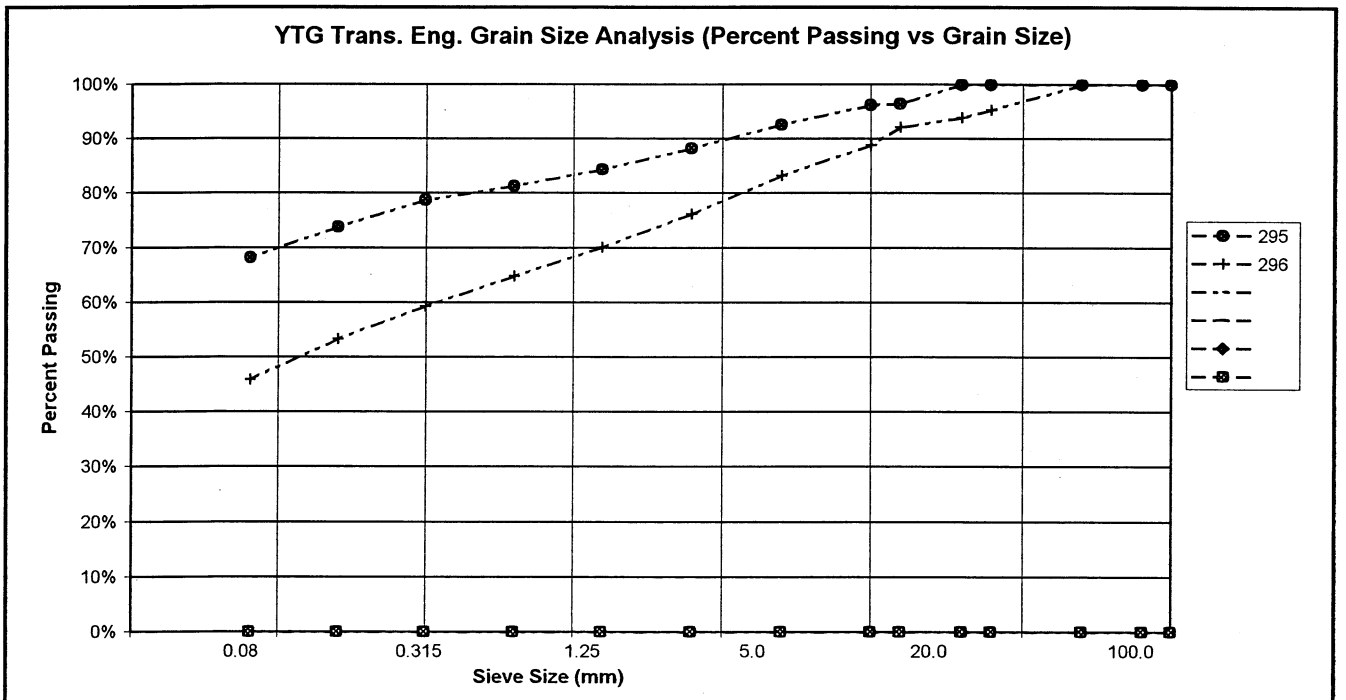


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+100 20M LT
 LOGGED BY: W.E.

HOLE No.: 544-1372

DATE COMP: 2000/05/15

FIELD NO:	295	296			
LAB NO:	598	599			
DEPTH:	1.0-1.2	2.6-3.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	100%	94%			
12.5	96%	92%			
10.0	96%	89%			
5.0	93%	83%			
2.5	88%	76%			
1.25	84%	70%			
0.630	81%	65%			
0.315	79%	59%			
0.160	74%	53%			
0.080	68%	46%			
M.C.(%)	26%	14%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	7	17			
% SAND:	24	37			
% FINES:	68	46			
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)			

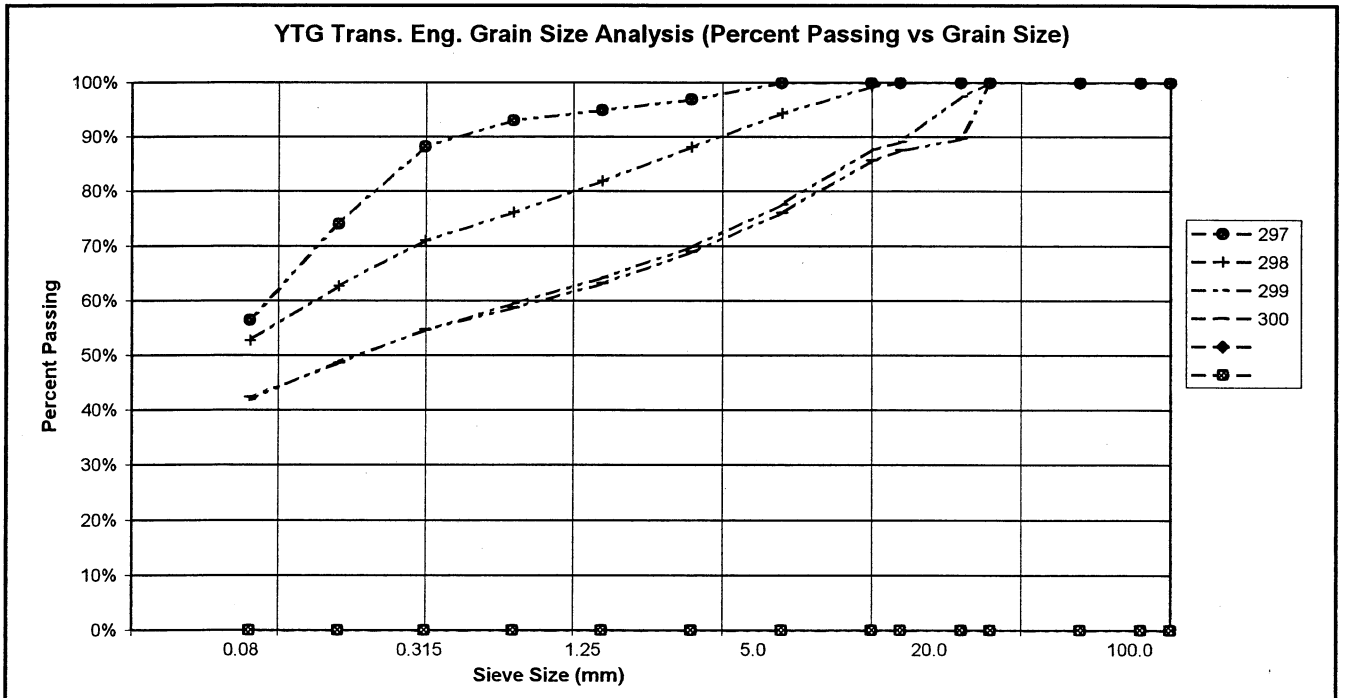


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+105 20M RT
 LOGGED BY: W.E.

HOLE No.: 544-1373

DATE COMP: 2000/05/15

FIELD NO:	297	298	299	300		
LAB NO:	600	601	602	603		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	97%	90%		
12.5	100%	100%	89%	88%		
10.0	100%	99%	88%	86%		
5.0	100%	94%	78%	76%		
2.5	97%	88%	70%	69%		
1.25	95%	82%	64%	63%		
0.630	93%	76%	59%	59%		
0.315	88%	71%	55%	55%		
0.160	74%	63%	49%	49%		
0.080	57%	53%	42%	42%		
M.C.(%)	13%	21%	15%	14%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	6	22	24		
% SAND:	43	42	36	34		
% FINES:	57	53	42	42		
CLASSIFICATION	SANDY SILT (ML)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

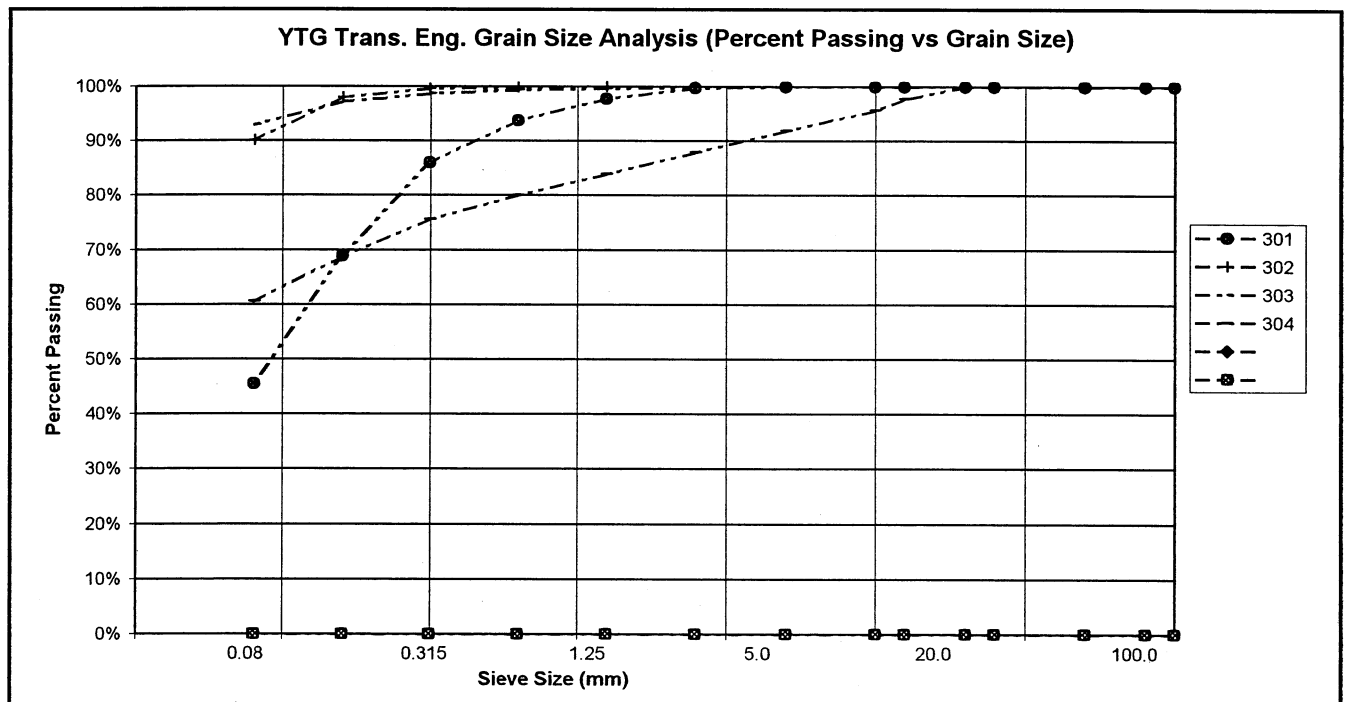


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+225 CL
 LOGGED BY: W.E.

HOLE No.: 544-1374

DATE COMP: 2000/05/15

FIELD NO:	301	302	303	304		
LAB NO:	604	605	606	607		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.5-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	100%		
12.5	100%	100%	100%	98%		
10.0	100%	100%	100%	96%		
5.0	100%	100%	100%	92%		
2.5	100%	100%	100%	88%		
1.25	98%	100%	100%	84%		
0.630	94%	100%	99%	80%		
0.315	86%	100%	99%	76%		
0.160	69%	98%	97%	69%		
0.080	46%	90%	93%	61%		
M.C.(%)	12%	37%	42%	24%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	0	8		
% SAND:	54	10	7	31		
% FINES:	46	90	93	61		
CLASSIFICATION	SILTY SAND (SM)	SILT (ML)	SILT (ML)	SANDY SILT (ML)		

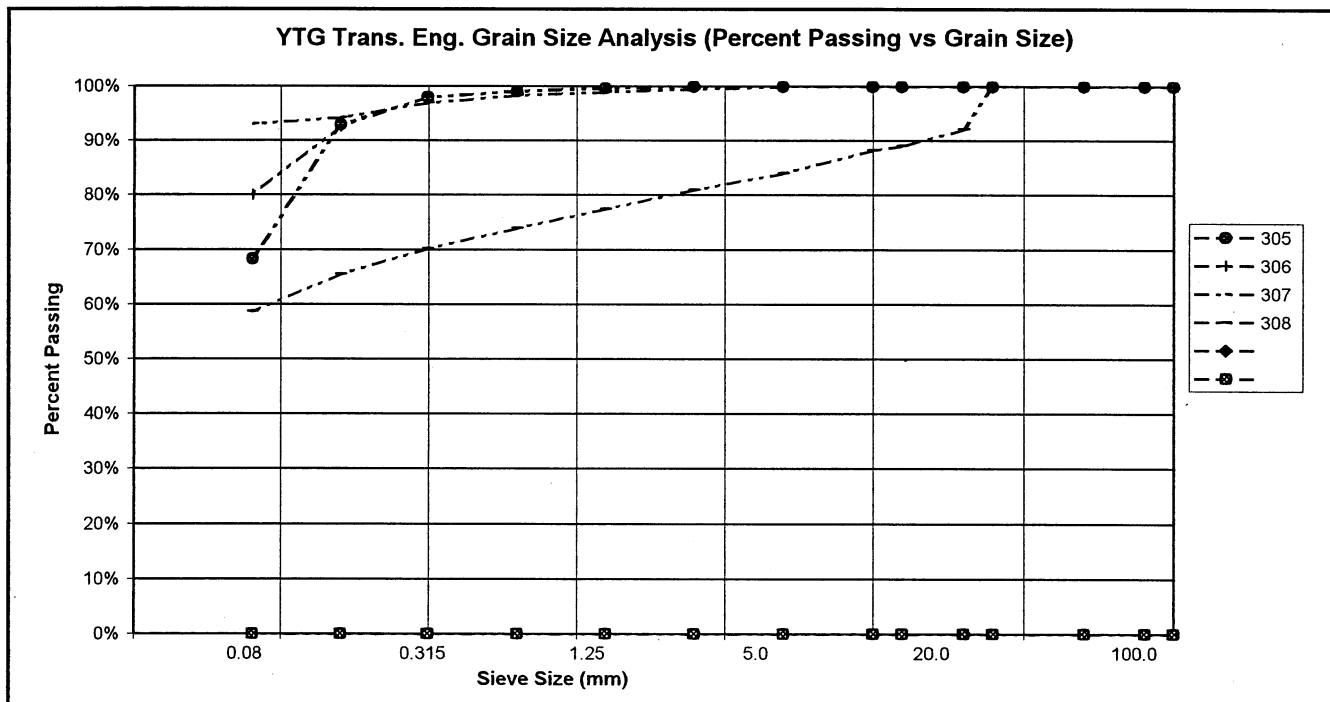


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+300 20M LT
 LOGGED BY: W.E.

HOLE No.: 544-1375

DATE COMP: 2000/05/15

FIELD NO:	305	306	307	308		
LAB NO:	608	609	610	611		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	92%		
12.5	100%	100%	100%	89%		
10.0	100%	100%	100%	88%		
5.0	100%	100%	100%	84%		
2.5	100%	100%	100%	81%		
1.25	100%	100%	99%	77%		
0.630	99%	99%	98%	74%		
0.315	98%	98%	97%	70%		
0.160	93%	93%	94%	66%		
0.080	68%	80%	93%	59%		
M.C.(%):	25%	35%	66%	18%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	0	16		
% SAND:	32	20	7	25		
% FINES:	68	80	93	59		
CLASSIFICATION	SANDY SILT (ML)	SILT WITH SAND (ML)	SILT (ML)	SANDY SILT WITH GRAVEL (ML)		

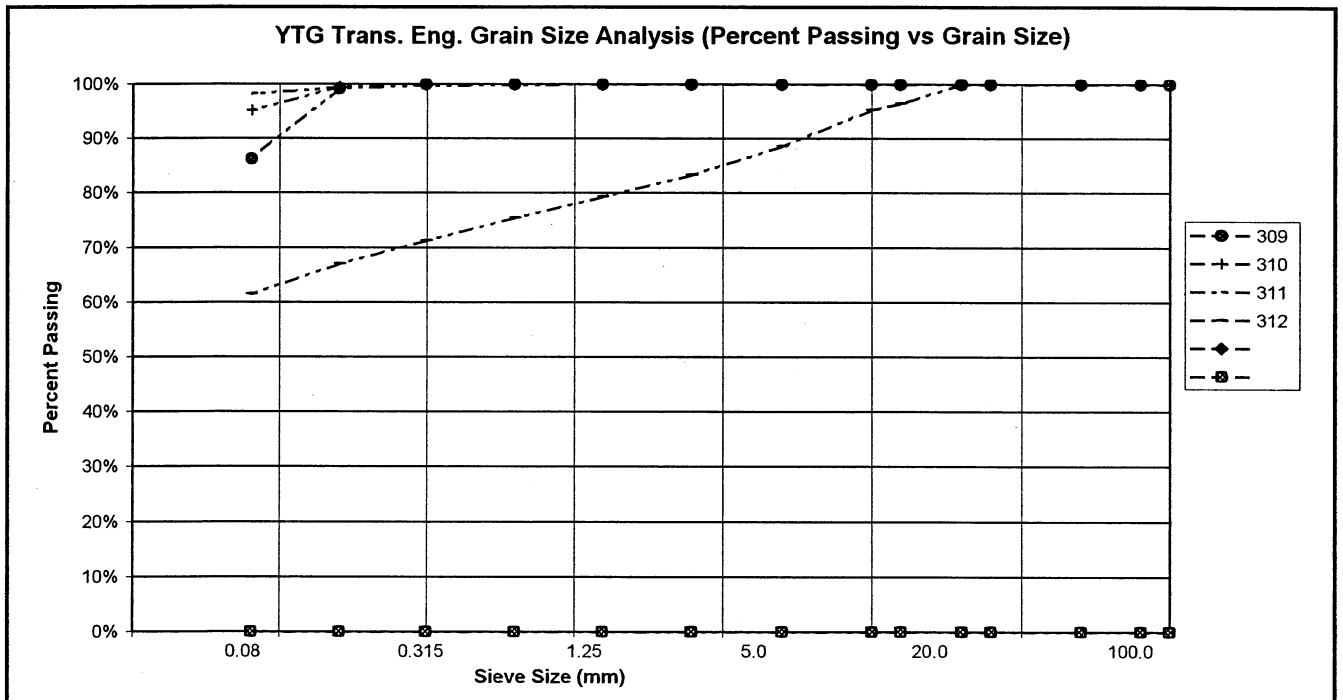


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+300 20M RT
 LOGGED BY: W.E.

HOLE No.: 544-1376

DATE COMP: 2000/05/16

FIELD NO:	309	310	311	312		
LAB NO:	612	613	614	615		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	3.8-4.0		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	100%	100%	100%		
12.5	100%	100%	100%	96%		
10.0	100%	100%	100%	95%		
5.0	100%	100%	100%	89%		
2.5	100%	100%	100%	83%		
1.25	100%	100%	100%	79%		
0.630	100%	100%	100%	75%		
0.315	100%	100%	100%	71%		
0.160	99%	100%	99%	67%		
0.080	86%	95%	98%	61%		
M.C.(%):	15%	26%	60%	19%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	0	0	11		
% SAND:	14	5	2	27		
% FINES:	86	95	98	61		
CLASSIFICATION	SILT (ML)	SILT (ML)	SILT (ML)	SANDY SILT (ML)		

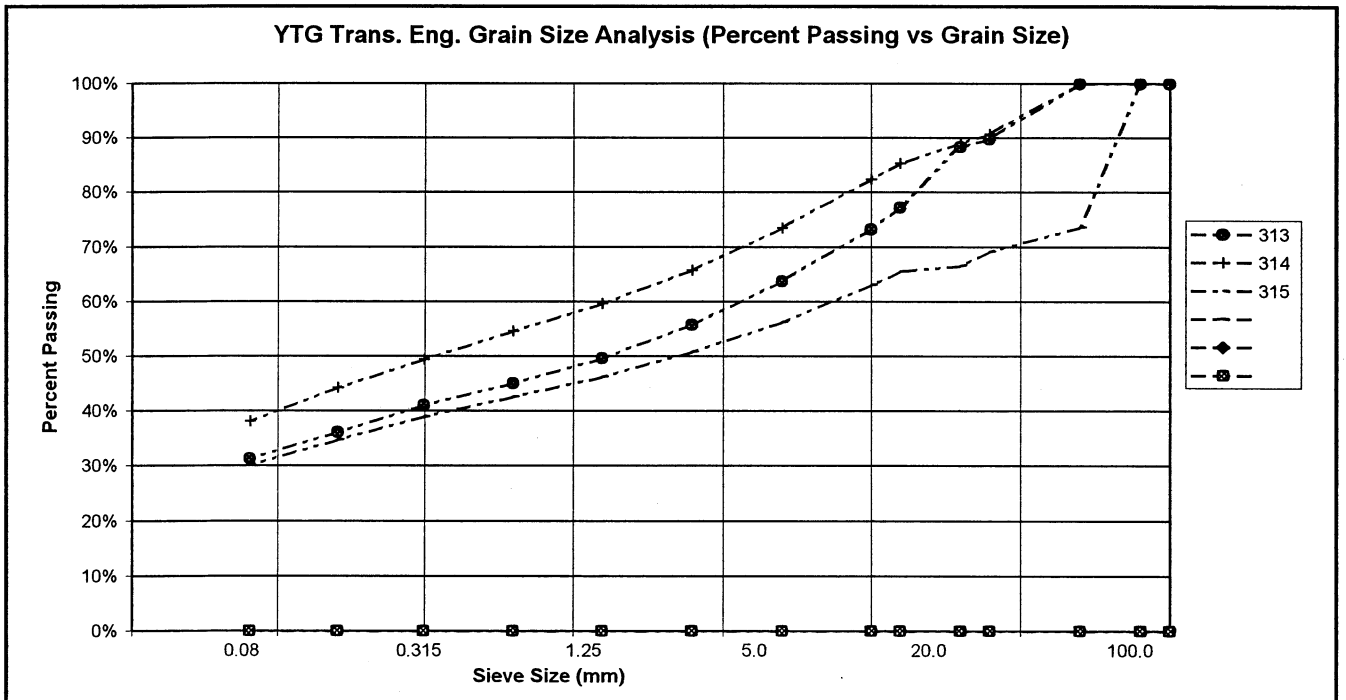


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+400 CL
 LOGGED BY: W.E.

HOLE No.: 544-1377

DATE COMP: 2000/05/16

FIELD NO:	313	314	315		
LAB NO:	616	617	618		
DEPTH:	0.8-1.0	2.5-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	74%		
25.0	90%	91%	69%		
20.0	88%	89%	67%		
12.5	77%	85%	65%		
10.0	73%	82%	63%		
5.0	64%	73%	56%		
2.5	56%	66%	51%		
1.25	50%	60%	46%		
0.630	45%	55%	43%		
0.315	41%	49%	39%		
0.160	36%	44%	35%		
0.080	31%	38%	30%		
M.C.(%):	6%	7%	5%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	36	27	44		
% SAND:	32	35	26		
% FINES:	31	38	30		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

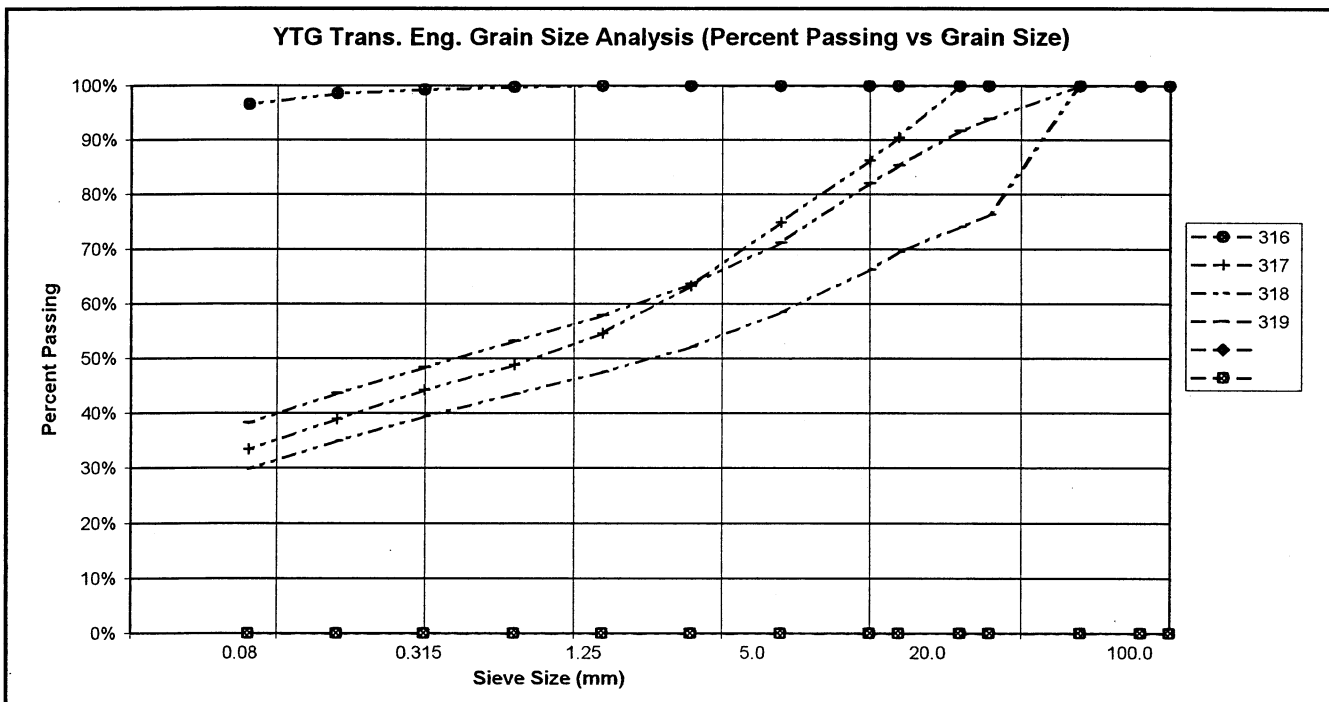


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+500 CL
 LOGGED BY: W.E.

HOLE No.: 544-1378

DATE COMP: 2000/05/16

FIELD NO:	316	317	318	319		
LAB NO:	619	620	621	622		
DEPTH:	0.8-1.0	1.5-2.0	2.8-3.0	4.4-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	76%	94%		
20.0	100%	100%	74%	92%		
12.5	100%	91%	69%	85%		
10.0	100%	86%	66%	82%		
5.0	100%	75%	58%	71%		
2.5	100%	63%	52%	64%		
1.25	100%	55%	48%	58%		
0.630	100%	49%	44%	53%		
0.315	99%	44%	39%	48%		
0.160	99%	39%	35%	44%		
0.080	97%	33%	30%	38%		
M.C.(%)	20%	10%	9%	8%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	25	42	29		
% SAND:	3	41	29	33		
% FINES:	97	33	30	38		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

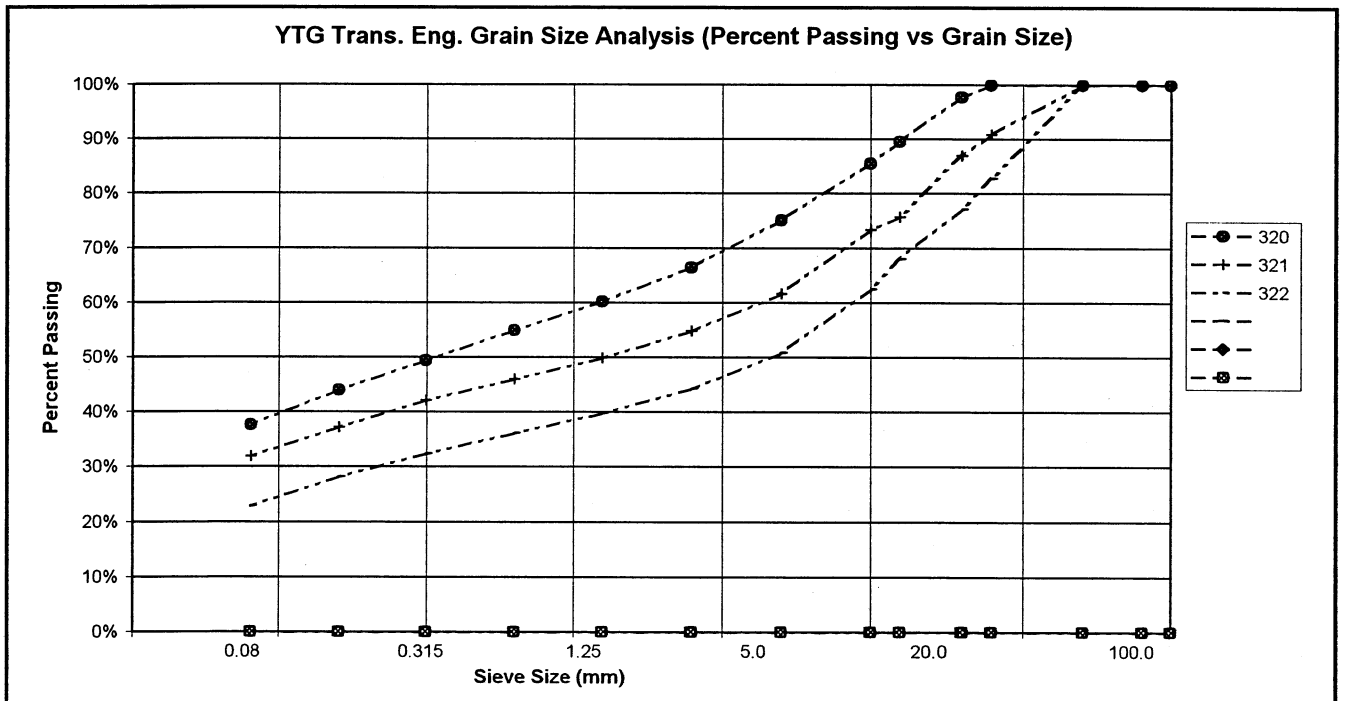


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+600 CL
 LOGGED BY: W.E.

HOLE No.: 544-1379

DATE COMP: 2000/05/16

FIELD NO:	320	321	322		
LAB NO:	623	624	625		
DEPTH:	0.8-1.0	2.5-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	91%	83%		
20.0	98%	87%	77%		
12.5	89%	76%	68%		
10.0	86%	73%	62%		
5.0	75%	62%	51%		
2.5	66%	55%	44%		
1.25	60%	50%	40%		
0.630	55%	46%	36%		
0.315	49%	42%	32%		
0.160	44%	37%	28%		
0.080	38%	32%	23%		
M.C.(%)	5%	4%	3%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	25	38	49		
% SAND:	37	30	28		
% FINES:	38	32	23		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)		

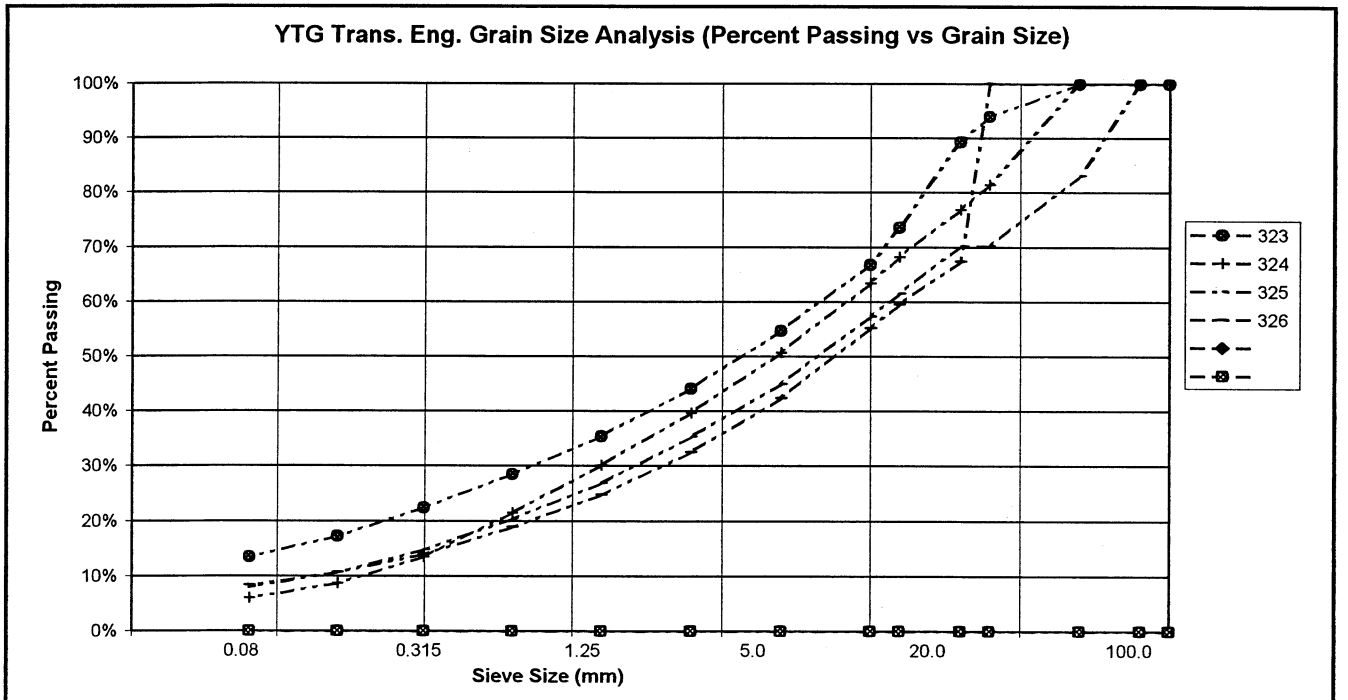


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+700 CL
 LOGGED BY: W.E.

HOLE No.: 544-1380

DATE COMP: 2000/05/16

FIELD NO:	323	324	325	326		
LAB NO:	626	627	628	629		
DEPTH:	0.8-1.0	1.8-2.0	2.8-3.0	4.0-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	83%	100%		
25.0	94%	81%	70%	100%		
20.0	89%	77%	70%	67%		
12.5	74%	68%	61%	59%		
10.0	67%	63%	57%	55%		
5.0	55%	51%	45%	42%		
2.5	44%	40%	35%	32%		
1.25	35%	30%	27%	25%		
0.630	28%	21%	20%	19%		
0.315	22%	14%	15%	14%		
0.160	17%	9%	11%	11%		
0.080	14%	6%	8%	8%		
M.C.(%):	5%	2%	3%	2%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	45	49	55	58		
% SAND:	41	45	37	34		
% FINES:	14	6	8	8		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

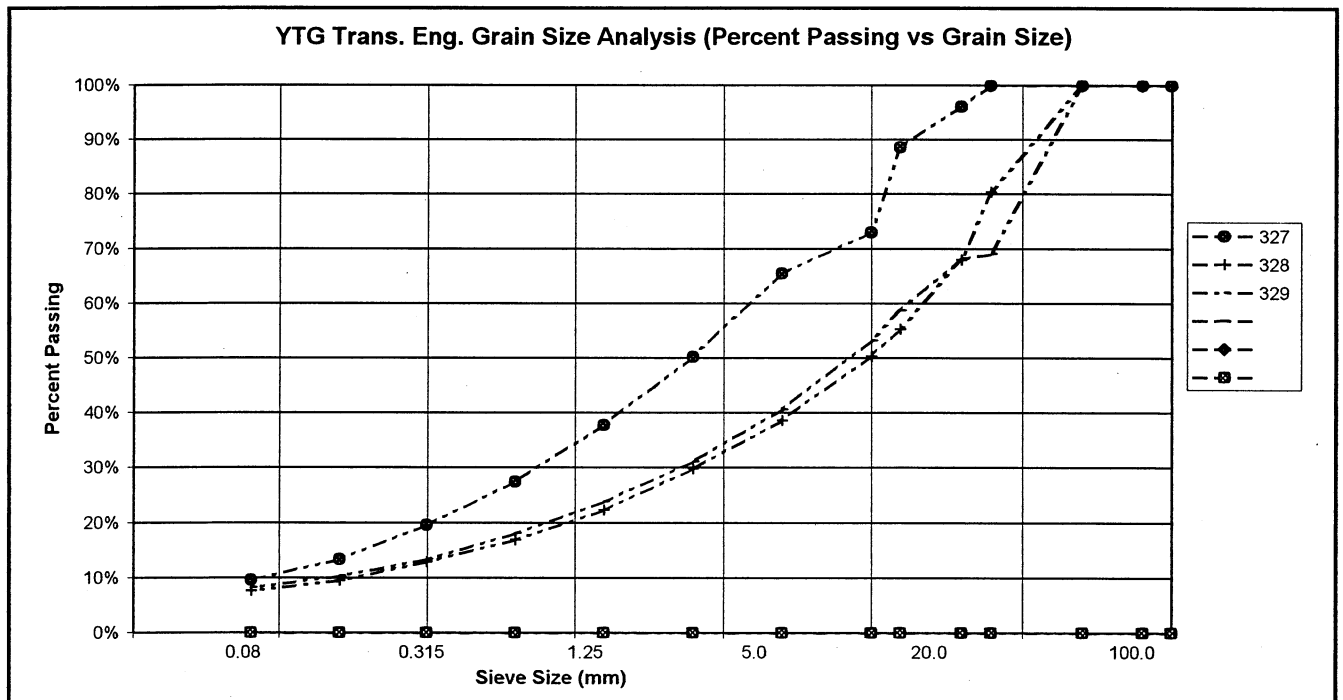


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+875 CL
 LOGGED BY: W.E.

HOLE No.: 544-1381

DATE COMP: 2000/05/16

FIELD NO:	327	328	329		
LAB NO:	630	631	632		
DEPTH:	1.0-1.5	1.8-2.0	3.5-4.7		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	80%	69%		
20.0	96%	68%	68%		
12.5	89%	55%	59%		
10.0	73%	50%	53%		
5.0	65%	39%	41%		
2.5	50%	30%	31%		
1.25	38%	22%	24%		
0.630	28%	17%	18%		
0.315	20%	13%	13%		
0.160	13%	10%	10%		
0.080	10%	8%	8%		
M.C.(%):	3%	3%	3%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	35	61	59		
% SAND:	56	31	32		
% FINES:	10	8	8		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

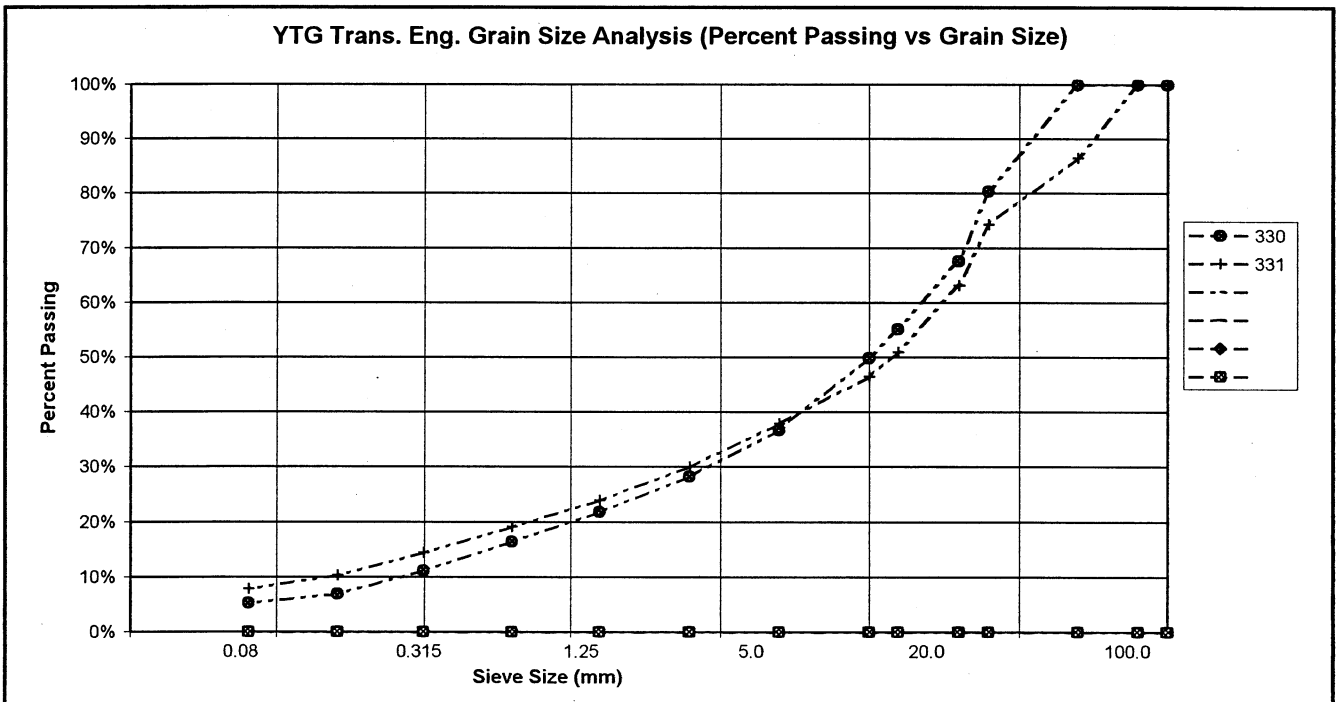


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+935 15M LT
 LOGGED BY: W.E.

HOLE No.: 544-1382

DATE COMP: 2000/05/16

FIELD NO:	330	331			
LAB NO:	633	634			
DEPTH:	1.4-1.6	4.4-4.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	87%			
25.0	80%	74%			
20.0	68%	63%			
12.5	55%	51%			
10.0	50%	47%			
5.0	37%	38%			
2.5	28%	30%			
1.25	22%	24%			
0.630	16%	19%			
0.315	11%	14%			
0.160	7%	10%			
0.080	5%	8%			
M.C.(%):	4%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	63	62			
% SAND:	32	30			
% FINES:	5	8			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

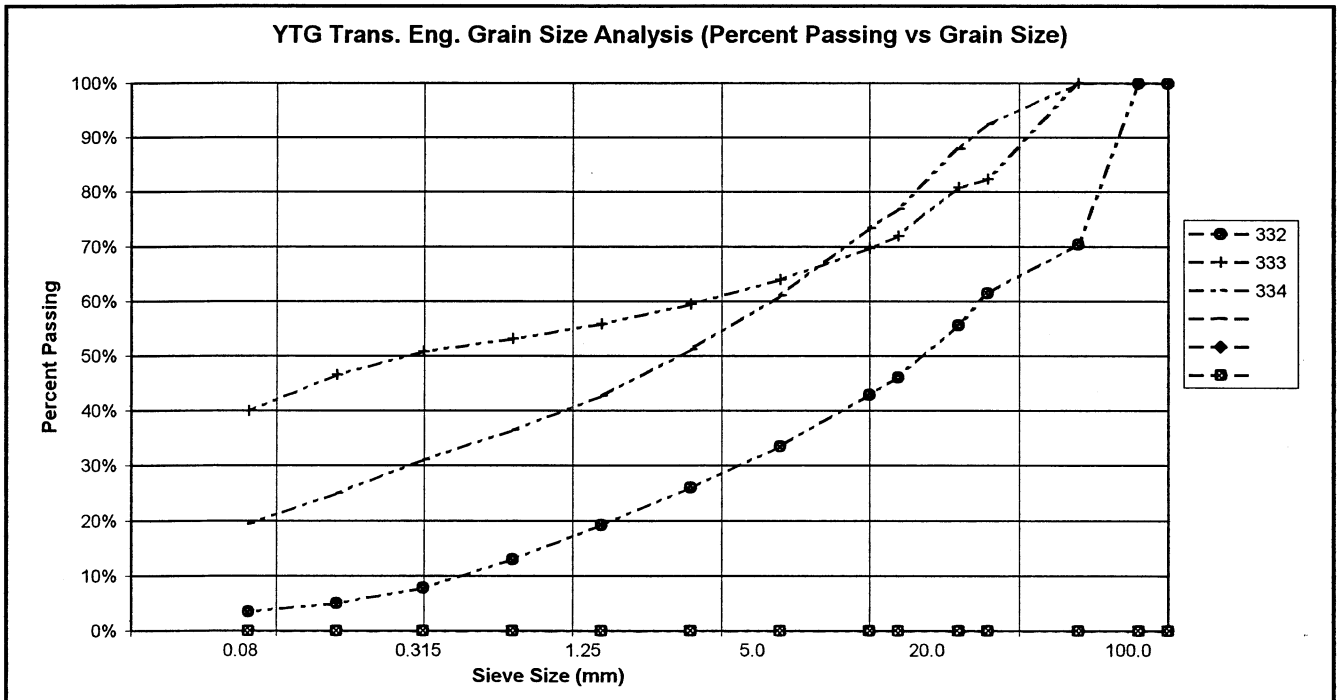


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1748+935 22M RT
 LOGGED BY: W.E.

HOLE No.: 544-1383

DATE COMP: 2000/05/16

FIELD NO:	332	333	334		
LAB NO:	635	636	637		
DEPTH:	1.4-1.6	3.1-3.4	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	70%	100%	100%		
25.0	61%	82%	92%		
20.0	56%	81%	88%		
12.5	46%	72%	77%		
10.0	43%	70%	73%		
5.0	34%	64%	61%		
2.5	26%	60%	51%		
1.25	19%	56%	43%		
0.630	13%	53%	37%		
0.315	8%	51%	31%		
0.160	5%	47%	25%		
0.080	4%	40%	19%		
M.C.(%)	2%	17%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	66	36	39		
% SAND:	30	24	42		
% FINES:	4	40	19		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

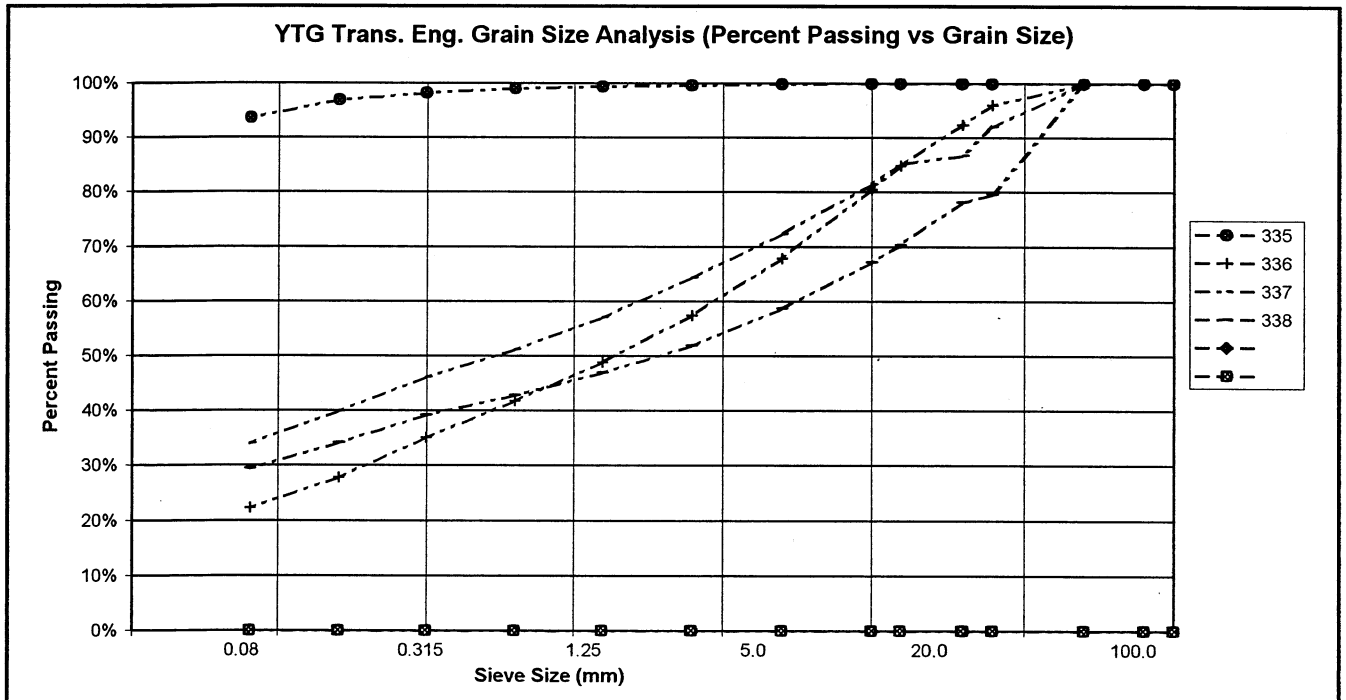


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+010 5M RT
 LOGGED BY: W.E.

HOLE No.: 544-1384

DATE COMP: 2000/05/16

FIELD NO:	335	336	337	338		
LAB NO:	638	639	640	641		
DEPTH:	0.8-1.0	1.9-2.1	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	96%	92%	80%		
20.0	100%	92%	87%	78%		
12.5	100%	85%	85%	70%		
10.0	100%	81%	81%	67%		
5.0	100%	68%	72%	59%		
2.5	100%	57%	64%	52%		
1.25	99%	49%	57%	47%		
0.630	99%	42%	51%	43%		
0.315	98%	35%	46%	39%		
0.160	97%	28%	40%	34%		
0.080	94%	22%	34%	29%		
M.C.(%)	8%	3%	5%	4%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	32	28	41		
% SAND:	6	46	38	29		
% FINES:	94	22	34	29		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

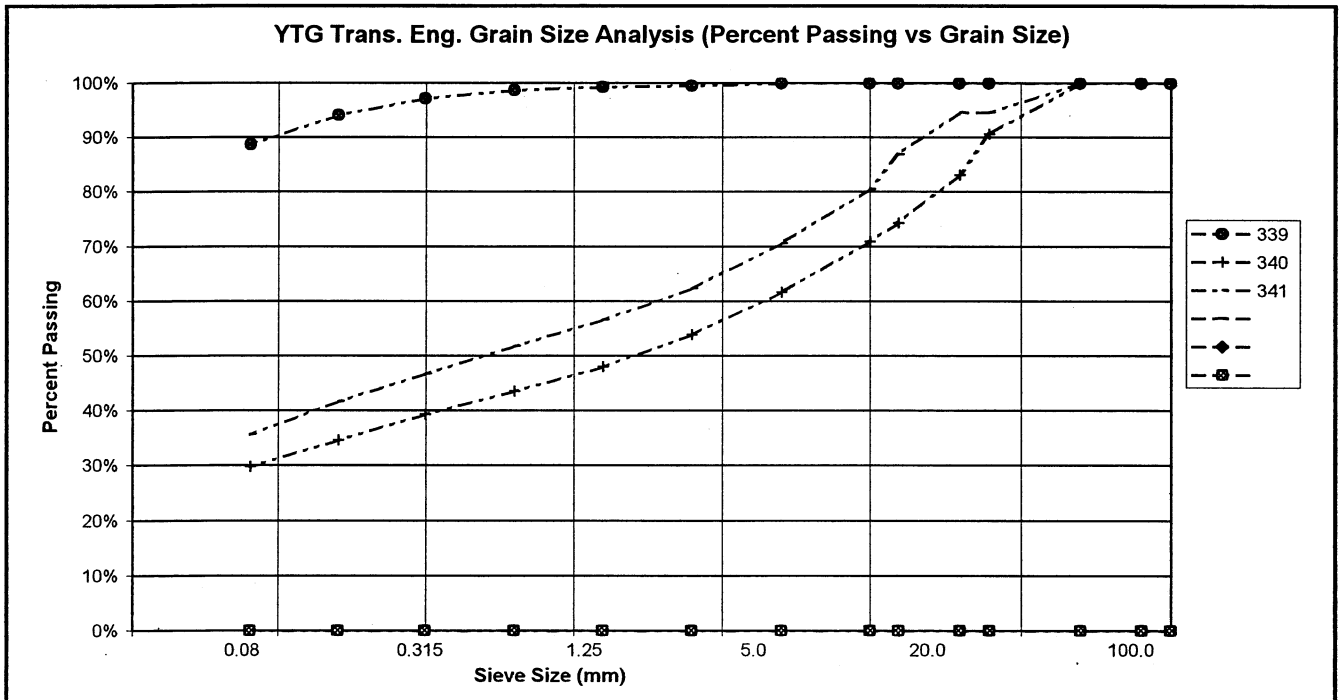


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+100 CL
 LOGGED BY: W.E.

HOLE No.: 544-1385

DATE COMP: 2000/05/16

FIELD NO:	339	340	341		
LAB NO:	642	643	644		
DEPTH:	0.9-1.1	2.8-3.0	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	91%	95%		
20.0	100%	83%	95%		
12.5	100%	74%	87%		
10.0	100%	71%	81%		
5.0	100%	62%	71%		
2.5	100%	54%	62%		
1.25	99%	48%	57%		
0.630	99%	44%	52%		
0.315	97%	39%	47%		
0.160	94%	35%	42%		
0.080	89%	30%	36%		
M.C.(%)	11%	5%	5%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	38	29		
% SAND:	11	32	35		
% FINES:	89	30	36		
CLASSIFICATION	SILT (ML)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)		

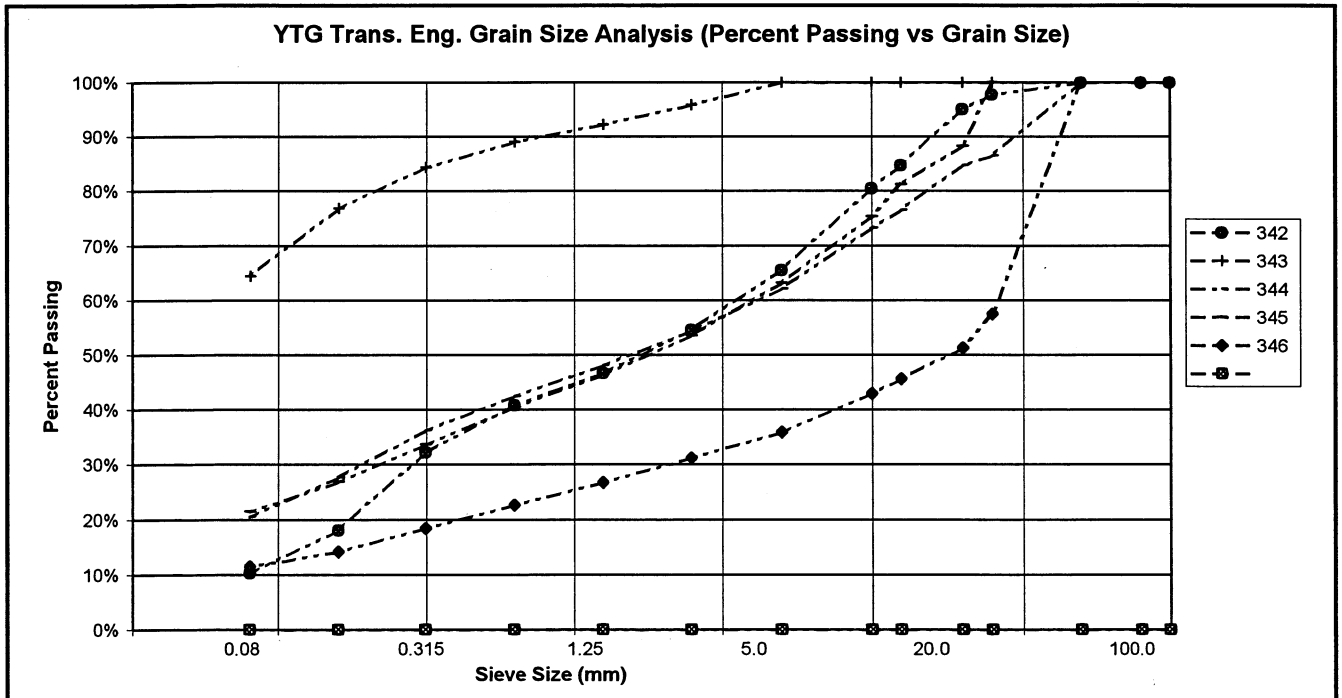


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+225 17M LT
 LOGGED BY: W.E.

HOLE No.: 544-1386

DATE COMP: 2000/05/16

FIELD NO:	342	343	344	345	346	
LAB NO:	645	646	647	648	649	
DEPTH:	0.8-1.0	1.4-1.6	2.0-2.2	2.8-3.0	4.4-4.6	
TYPE:	AUGER	AUGER	AUGER	AUGER	AUGER	AUGER
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	
100.0	100%	100%	100%	100%	100%	
80.0	100%	100%	100%	100%	100%	
50.0	100%	100%	100%	100%	100%	
25.0	98%	100%	87%	100%	58%	
20.0	95%	100%	85%	88%	51%	
12.5	85%	100%	77%	81%	46%	
10.0	80%	100%	73%	75%	43%	
5.0	66%	100%	62%	63%	36%	
2.5	55%	96%	54%	53%	31%	
1.25	47%	92%	48%	46%	27%	
0.630	41%	89%	43%	41%	23%	
0.315	32%	84%	36%	34%	18%	
0.160	18%	77%	28%	27%	14%	
0.080	10%	64%	21%	22%	11%	
M.C.(%)	3%	35%	9%	10%	5%	
LIQUID LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC LIMIT:	0.0	0.0	0.0	0.0	0.0	
PLASTIC INDEX:	0.0	0.0	0.0	0.0	0.0	
% GRAVEL:	34	0	38	37	64	
% SAND:	55	36	42	42	24	
% FINES:	10	64	21	22	11	
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	

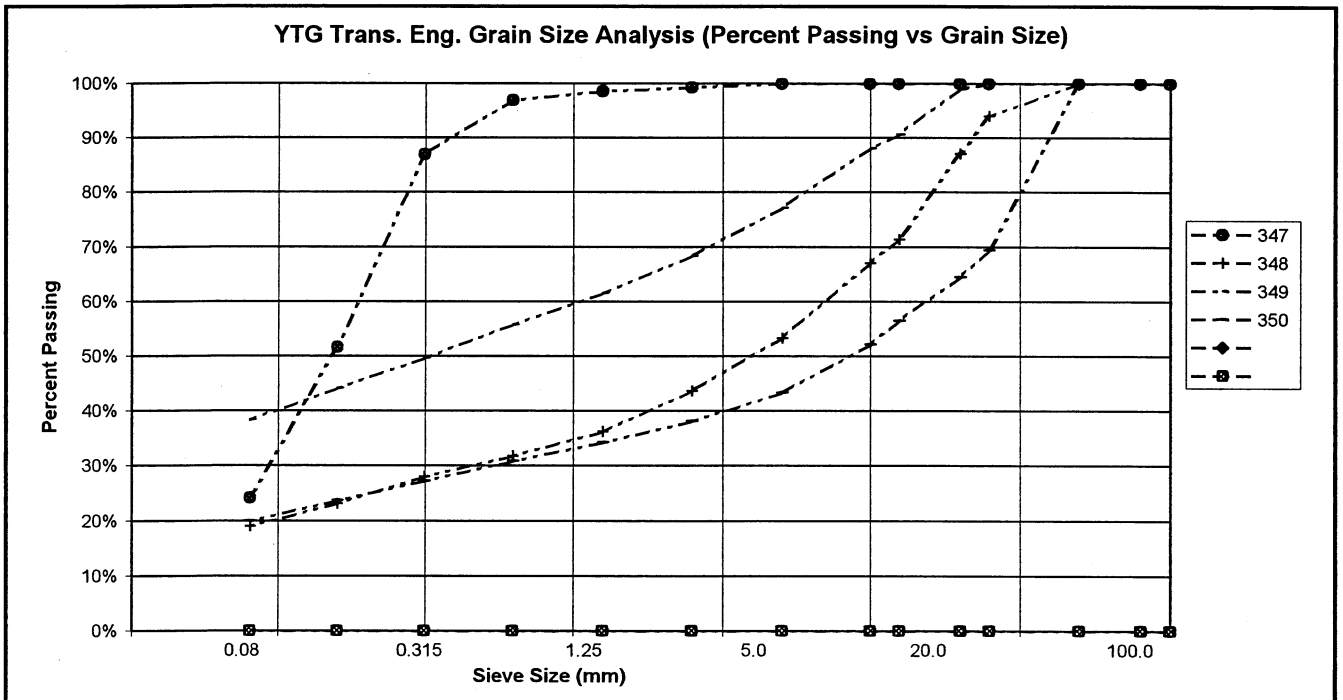


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+235 15M RT
 LOGGED BY: W.E.

HOLE No.: 544-1387

DATE COMP: 2000/05/16

FIELD NO:	347	348	349	350		
LAB NO:	650	651	652	653		
DEPTH:	0.1-0.3	1.4-1.6	2.9-3.1	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	94%	100%	69%		
20.0	100%	87%	99%	64%		
12.5	100%	71%	91%	56%		
10.0	100%	67%	88%	52%		
5.0	100%	53%	77%	43%		
2.5	99%	44%	68%	38%		
1.25	99%	36%	61%	34%		
0.630	97%	32%	56%	31%		
0.315	87%	28%	50%	27%		
0.160	52%	23%	44%	24%		
0.080	24%	19%	38%	20%		
M.C.(%):	28%	5%	6%	4%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	47	23	57		
% SAND:	76	34	39	23		
% FINES:	24	19	38	20		
CLASSIFICATION	SILTY SAND (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

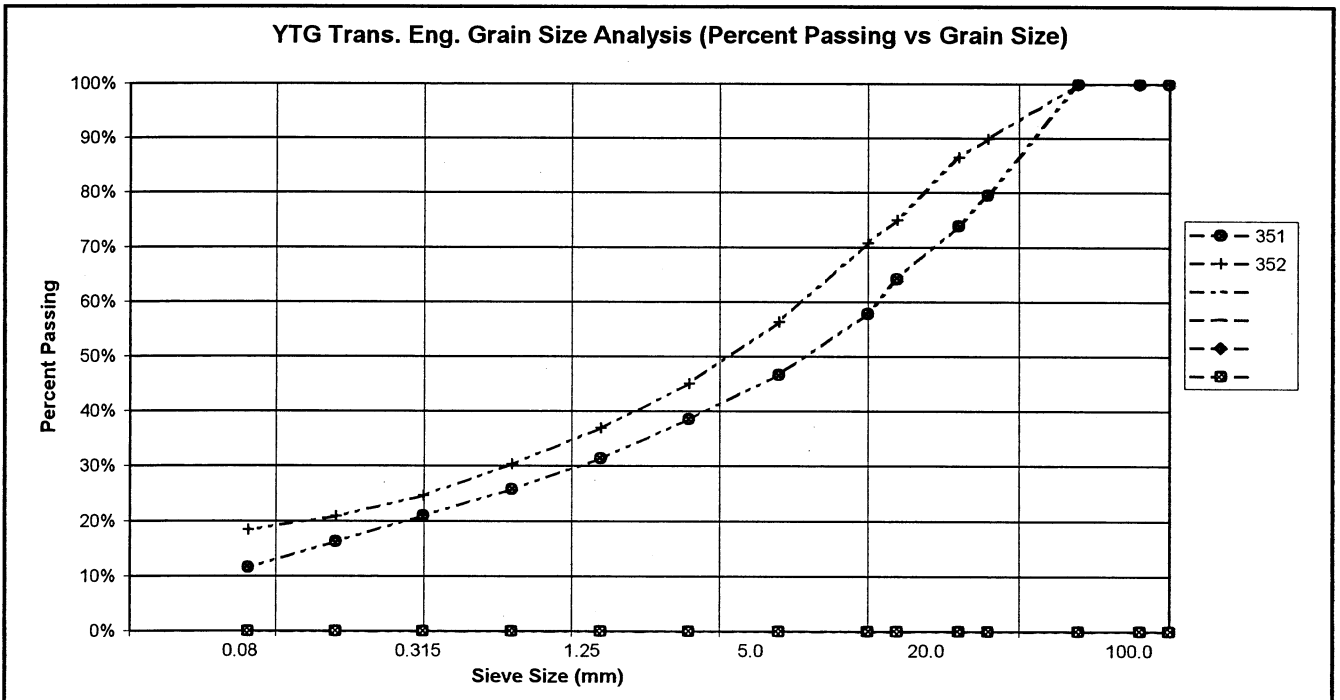


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+350 CL
 LOGGED BY: W.E.

HOLE No.: 544-1388

DATE COMP: 2000/05/16

FIELD NO:	351	352			
LAB NO:	654	655			
DEPTH:	1.8-2.0	4.4-4.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	80%	90%			
20.0	74%	87%			
12.5	64%	75%			
10.0	58%	71%			
5.0	47%	56%			
2.5	39%	45%			
1.25	31%	37%			
0.630	26%	30%			
0.315	21%	25%			
0.160	16%	21%			
0.080	12%	18%			
M.C.(%):	4%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	53	44			
% SAND:	35	38			
% FINES:	12	18			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)			

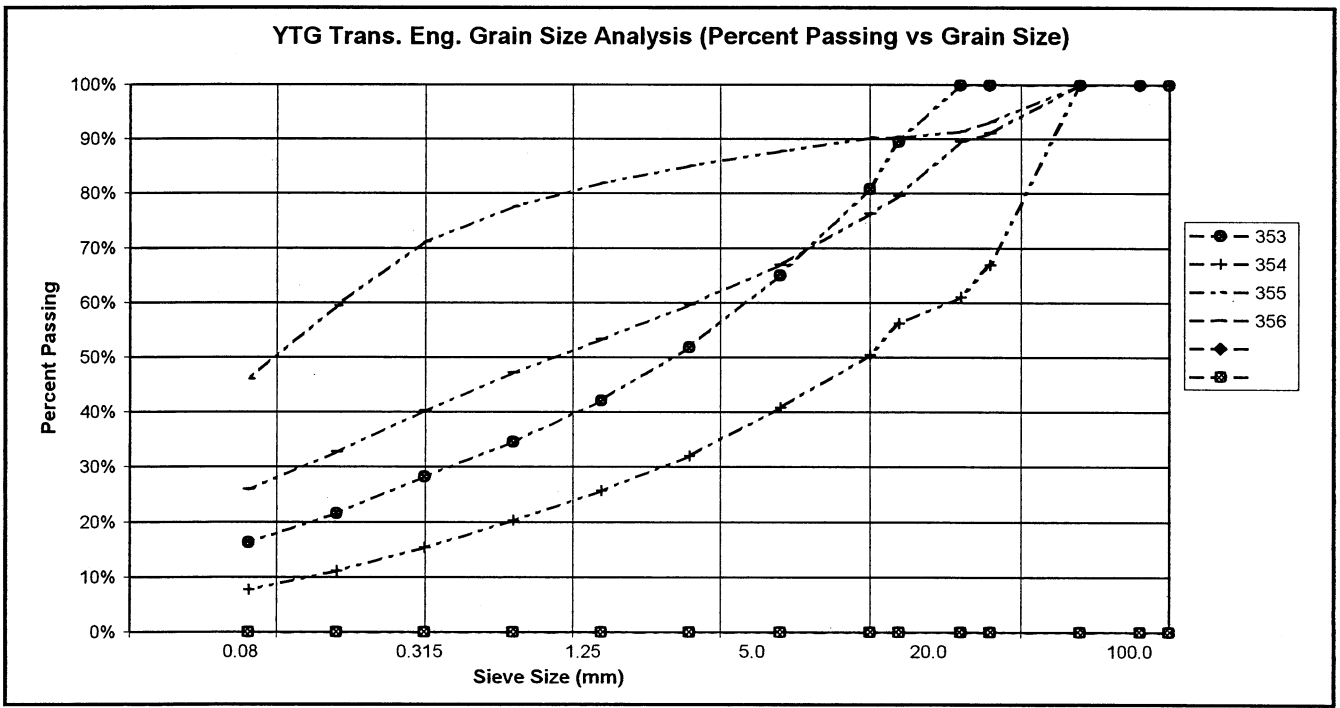


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+450 CL
 LOGGED BY: W.E.

HOLE No.: 544-1389

DATE COMP: 2000/05/16

FIELD NO:	353	354	355	356		
LAB NO:	656	657	658	659		
DEPTH:	9-1.1	2.0-2.2	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	67%	93%	91%		
20.0	100%	61%	91%	89%		
12.5	90%	56%	90%	80%		
10.0	81%	50%	90%	76%		
5.0	65%	41%	88%	67%		
2.5	52%	32%	85%	60%		
1.25	42%	26%	82%	53%		
0.630	35%	20%	78%	47%		
0.315	28%	15%	71%	40%		
0.160	22%	11%	59%	33%		
0.080	16%	8%	46%	26%		
M.C.(%)	6%	3%	13%	8%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	35	59	12	33		
% SAND:	49	33	42	41		
% FINES:	16	8	46	26		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

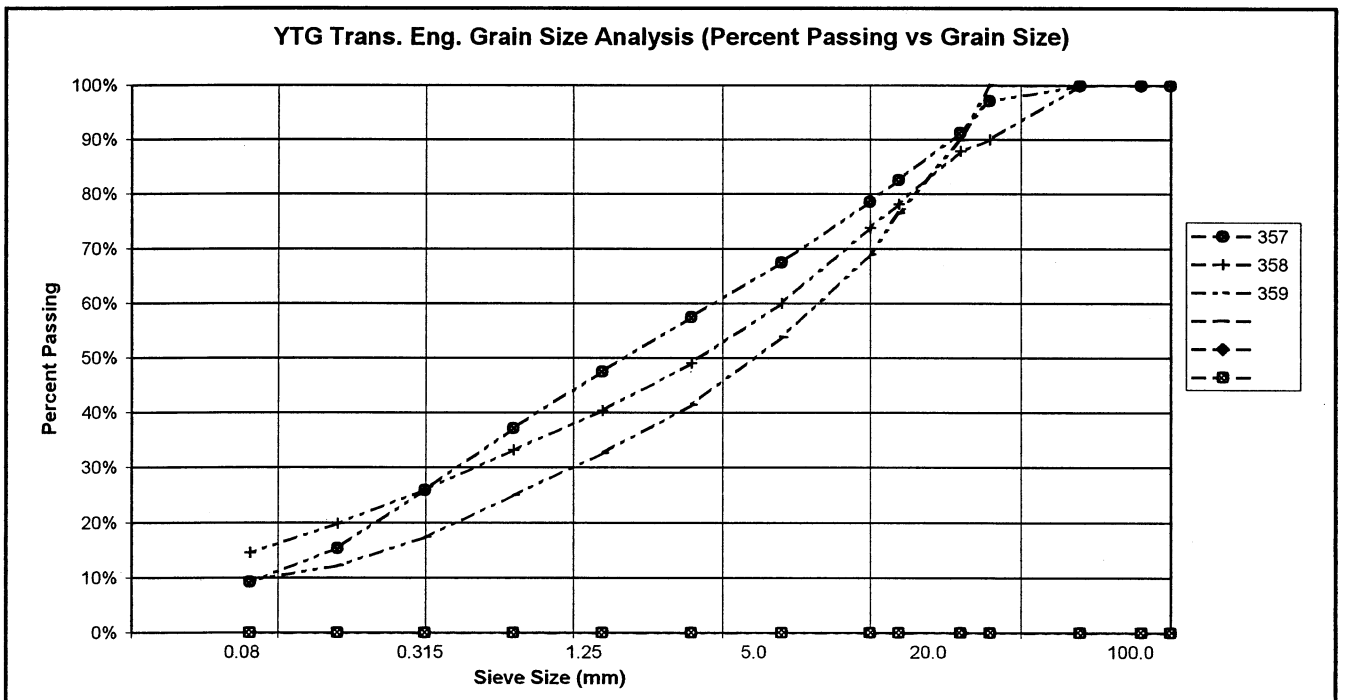


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+550 10M RT
 LOGGED BY: W.E.

HOLE No.: 544-1390

DATE COMP: 2000/05/16

FIELD NO:	357	358	359		
LAB NO:	660	661	662		
DEPTH:	0.8-1.0	2.0-2.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	97%	90%	100%		
20.0	91%	88%	90%		
12.5	83%	78%	77%		
10.0	79%	74%	69%		
5.0	67%	60%	54%		
2.5	57%	49%	41%		
1.25	48%	40%	33%		
0.630	37%	33%	25%		
0.315	26%	26%	17%		
0.160	15%	20%	12%		
0.080	9%	15%	10%		
M.C.(%):	3%	7%	3%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	33	40	46		
% SAND:	58	45	44		
% FINES:	9	15	10		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

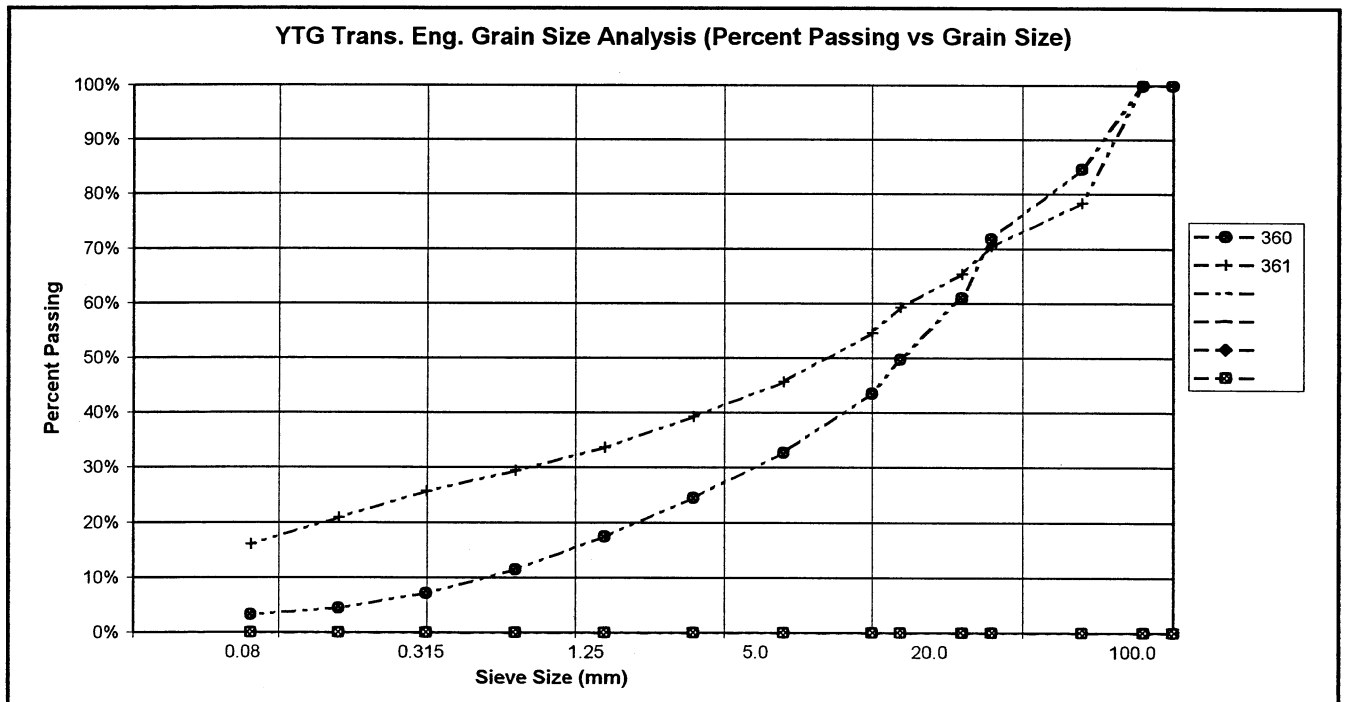


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+650 CL
 LOGGED BY: W.E.

HOLE No.: 544-1391

DATE COMP: 2000/05/16

FIELD NO:	360	361			
LAB NO:	663	664			
DEPTH:	1.4-1.6	4.4-4.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	85%	78%			
25.0	72%	70%			
20.0	61%	65%			
12.5	50%	59%			
10.0	44%	55%			
5.0	33%	46%			
2.5	25%	39%			
1.25	17%	34%			
0.630	11%	29%			
0.315	7%	26%			
0.160	4%	21%			
0.080	3%	16%			
M.C.(%):	3%	6%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	67	54			
% SAND:	29	30			
% FINES:	3	16			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILTY GRAVEL WITH SAND (GM)			

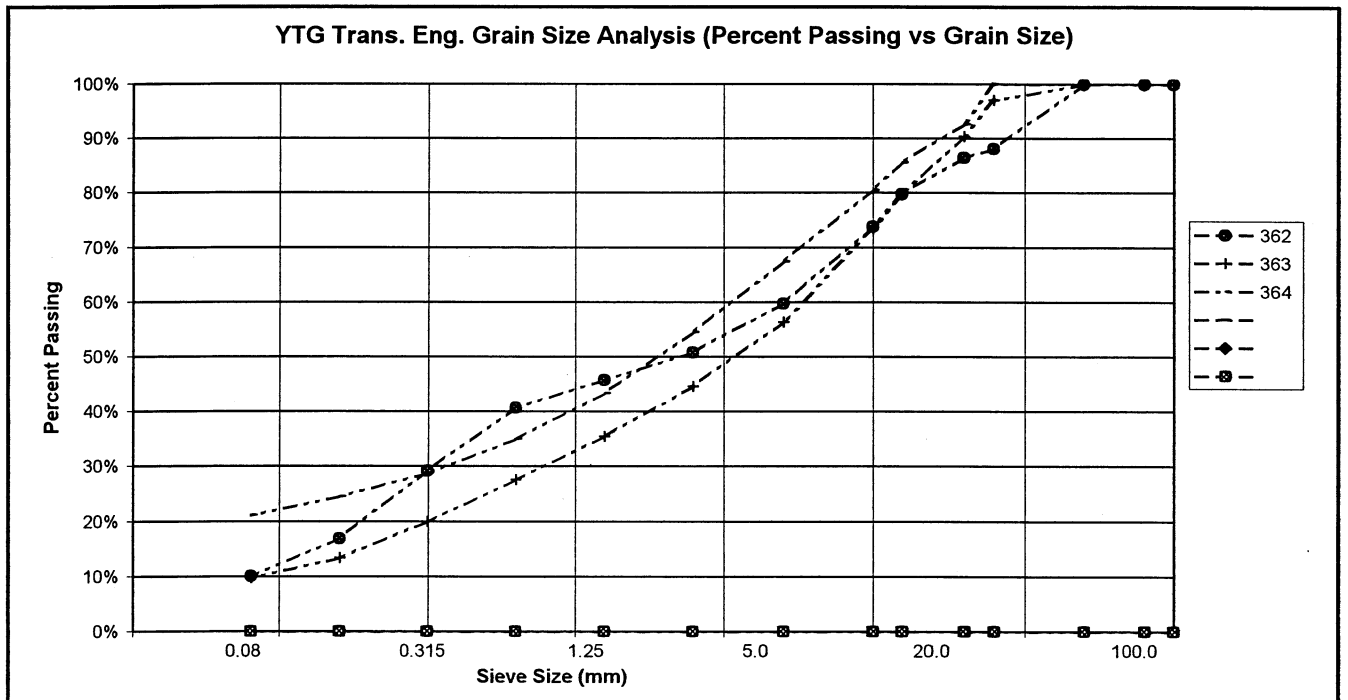


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+687 10M RT
 LOGGED BY: W.E.

HOLE No.: 544-1392

DATE COMP: 2000/05/17

FIELD NO:	362	363	364		
LAB NO:	665	666	667		
DEPTH:	1.1-1.3	2.5-2.7	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	88%	97%	100%		
20.0	87%	90%	93%		
12.5	80%	80%	86%		
10.0	74%	73%	81%		
5.0	60%	56%	67%		
2.5	51%	45%	55%		
1.25	46%	35%	43%		
0.630	41%	28%	35%		
0.315	29%	20%	29%		
0.160	17%	13%	25%		
0.080	10%	10%	21%		
M.C.(%):	13%	4%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	40	44	33		
% SAND:	50	47	46		
% FINES:	10	10	21		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)		

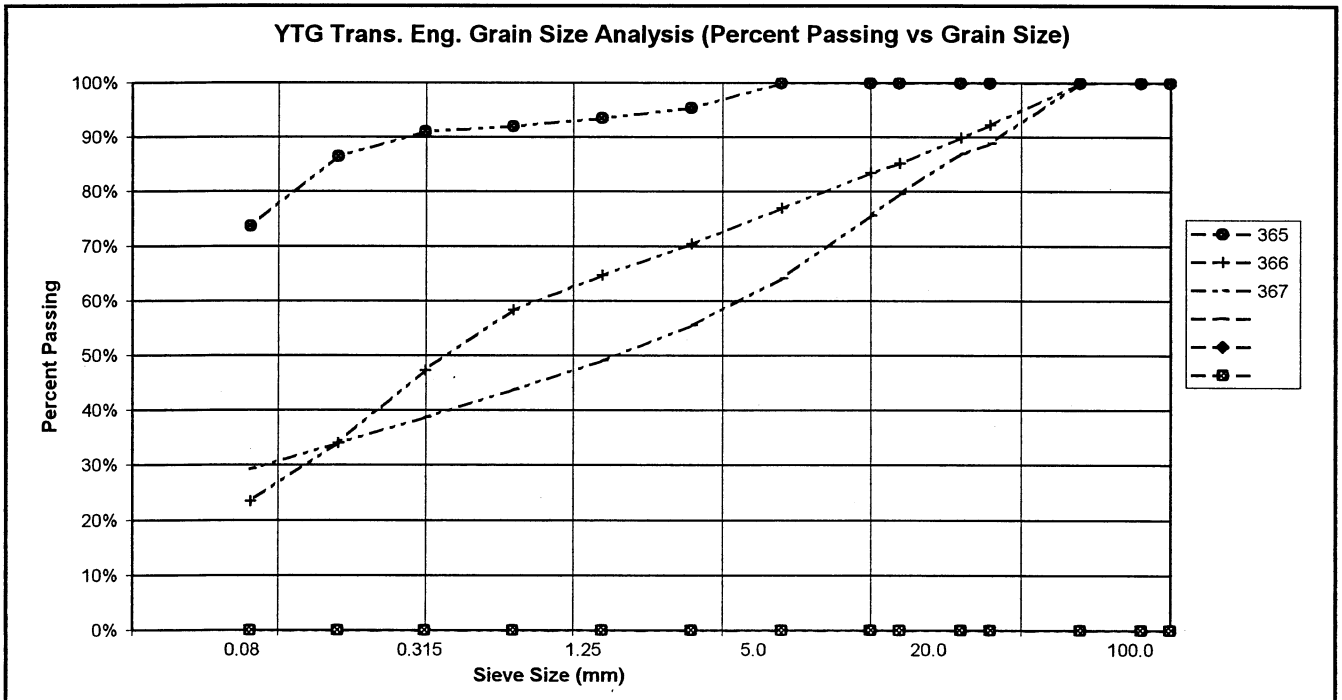


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+687 24M LT
 LOGGED BY: W.E.

HOLE No.: 544-1393

DATE COMP: 2000/05/17

FIELD NO:	365	366	367		
LAB NO:	668	669	670		
DEPTH:	0.9-1.0	2.5-2.8	4.2-4.4		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	92%	89%		
20.0	100%	90%	87%		
12.5	100%	85%	80%		
10.0	100%	83%	76%		
5.0	100%	77%	64%		
2.5	95%	70%	56%		
1.25	94%	65%	49%		
0.630	92%	58%	44%		
0.315	91%	47%	39%		
0.160	87%	34%	34%		
0.080	74%	24%	29%		
M.C.(%)	39%	6%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	0	23	36		
% SAND:	26	54	35		
% FINES:	74	24	29		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

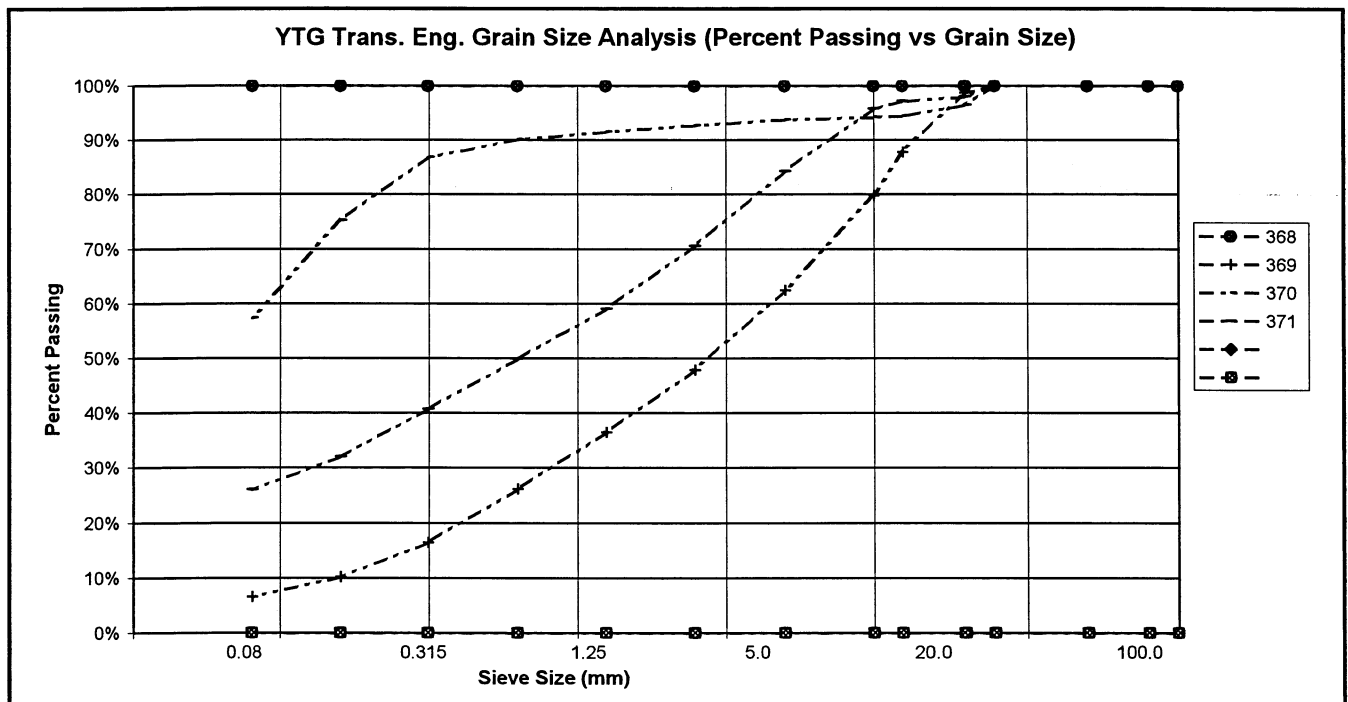


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+780 CL
 LOGGED BY: W.E.

HOLE No.: 544-1394

DATE COMP: 2000/05/17

FIELD NO:	368	369	370	371		
LAB NO:	LOST	672	673	674		
DEPTH:	0.6-1.0	1.9-2.1	3.0-3.2	4.7-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	100%	100%	100%	100%		
20.0	100%	99%	96%	98%		
12.5	100%	88%	95%	97%		
10.0	100%	80%	94%	96%		
5.0	100%	62%	94%	84%		
2.5	100%	48%	93%	71%		
1.25	100%	36%	92%	59%		
0.630	100%	26%	90%	50%		
0.315	100%	16%	87%	41%		
0.160	100%	10%	75%	32%		
0.080	100%	7%	57%	26%		
M.C.(%)	14%	2%	18%	6%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	0	38	6	16		
% SAND:	0	56	36	58		
% FINES:	100	7	57	26		
CLASSIFICATION	CL (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

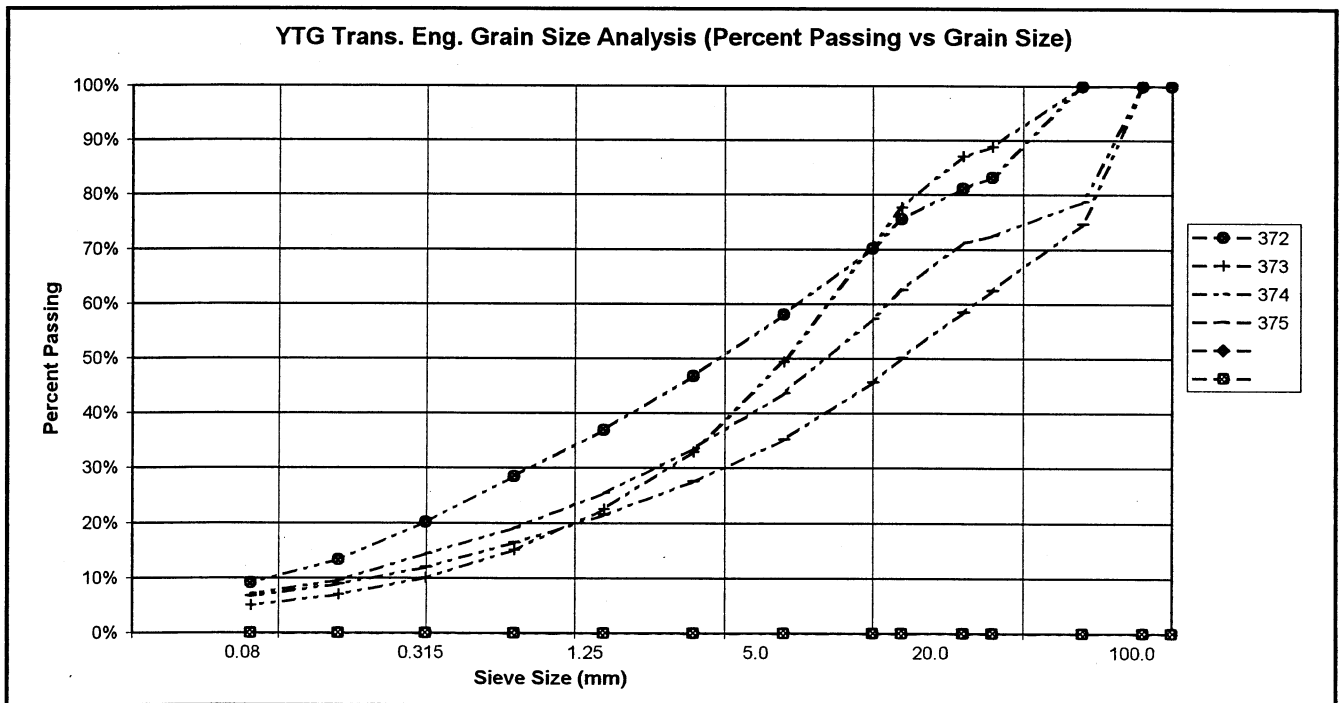


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1749+900 CL
 LOGGED BY: W.E.

HOLE No.: 544-1395

DATE COMP: 2000/05/17

FIELD NO:	372	373	374	375		
LAB NO:	675	676	677	678		
DEPTH:	1.4-1.6	2.3-2.5	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	79%	75%		
25.0	83%	89%	73%	62%		
20.0	81%	87%	71%	58%		
12.5	76%	78%	63%	50%		
10.0	70%	71%	57%	46%		
5.0	58%	49%	44%	35%		
2.5	47%	33%	34%	28%		
1.25	37%	22%	25%	21%		
0.630	29%	15%	19%	16%		
0.315	20%	10%	14%	12%		
0.160	13%	7%	10%	9%		
0.080	9%	5%	7%	7%		
M.C.(%):	4%	2%	3%	2%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	42	51	56	65		
% SAND:	49	44	36	29		
% FINES:	9	5	7	7		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SAND (GP)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

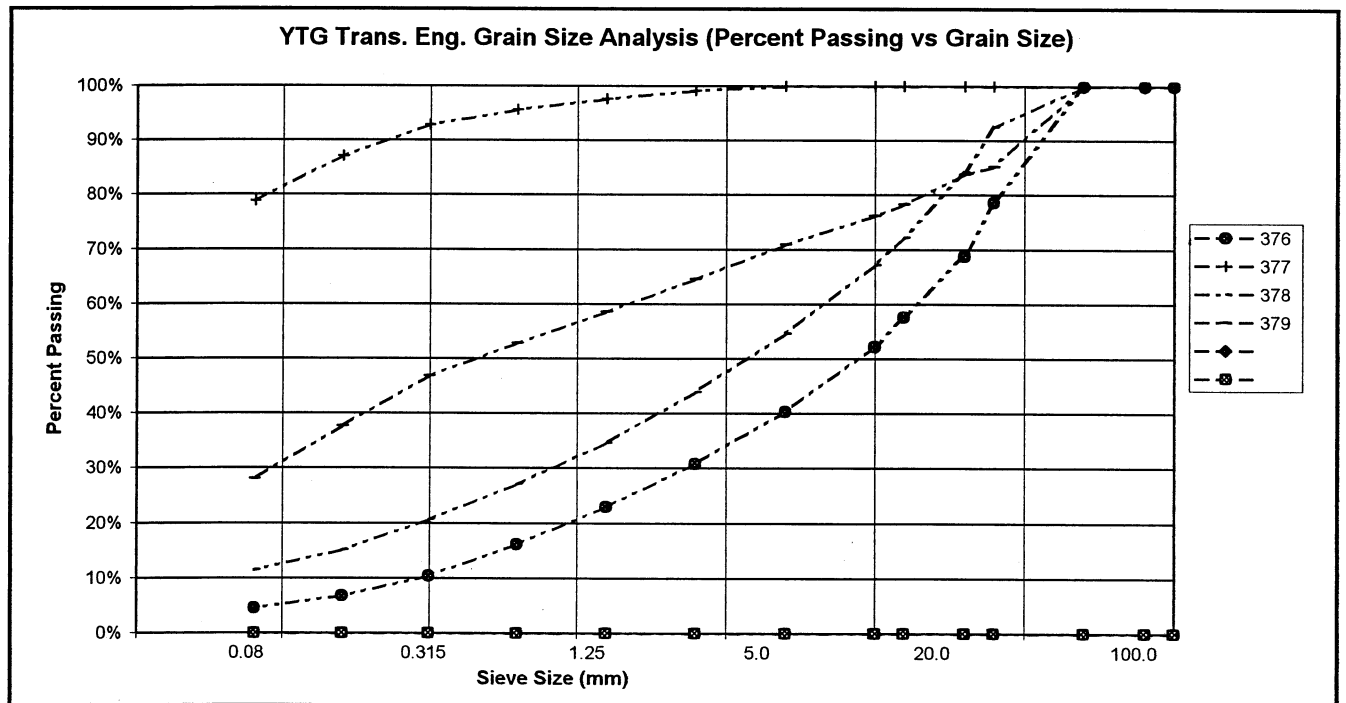


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1750+000 CL
 LOGGED BY: W.E.

HOLE No.: 544-1396

DATE COMP: 2000/05/17

FIELD NO:	376	377	378	379		
LAB NO:	679	680	681	682		
DEPTH:	1.4-1.6	2.0-2.4	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	79%	100%	92%	85%		
20.0	69%	100%	84%	84%		
12.5	58%	100%	72%	78%		
10.0	52%	100%	67%	76%		
5.0	40%	100%	55%	71%		
2.5	31%	99%	44%	65%		
1.25	23%	98%	35%	59%		
0.630	16%	96%	27%	53%		
0.315	10%	93%	21%	47%		
0.160	7%	87%	15%	38%		
0.080	5%	79%	11%	28%		
M.C.(%)	2%	40%	4%	7%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	60	0	45	29		
% SAND:	36	21	43	43		
% FINES:	5	79	11	28		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)	SILT WITH SAND (ML)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)		

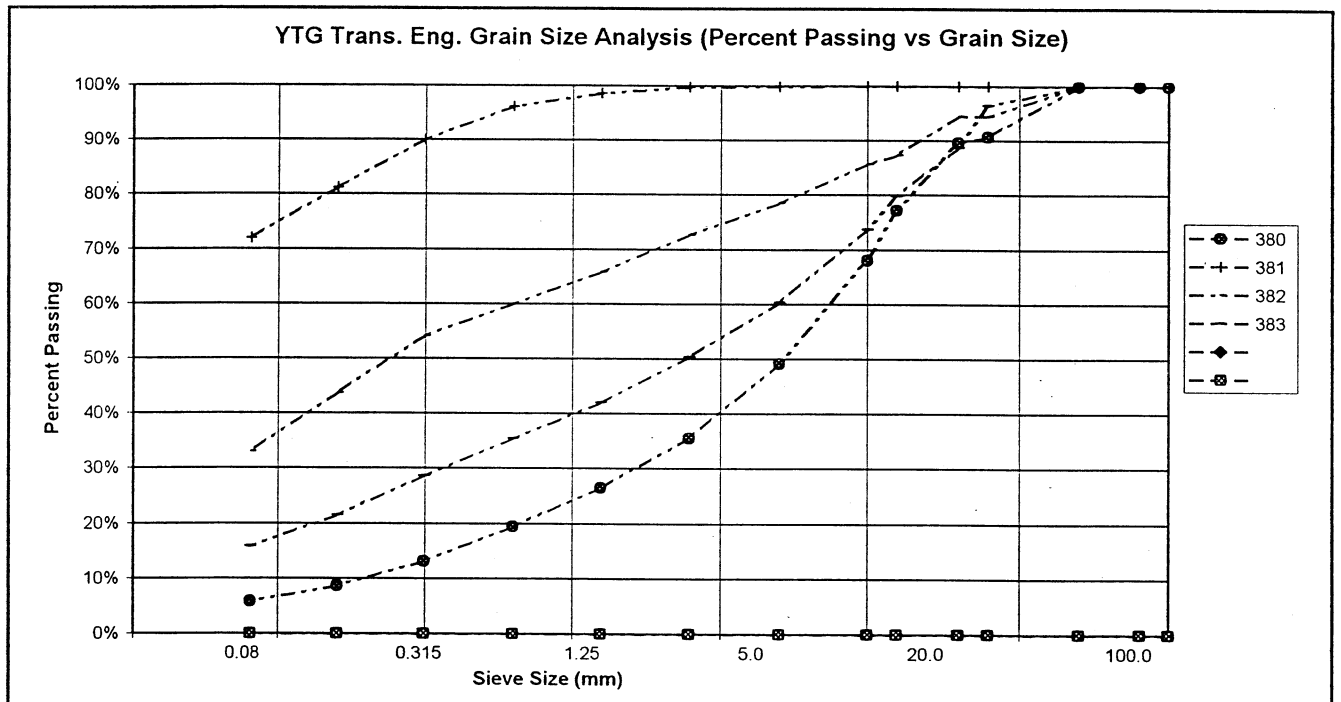


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1750+100 CL
 LOGGED BY: W.E.

HOLE No.: 544-1397

DATE COMP: 2000/05/17

FIELD NO:	380	381	382	383		
LAB NO:	683	684	685	686		
DEPTH:	1.1-1.3	2.0-2.2	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	91%	100%	94%	96%		
20.0	90%	100%	94%	89%		
12.5	77%	100%	87%	80%		
10.0	68%	100%	86%	74%		
5.0	49%	100%	79%	60%		
2.5	36%	100%	73%	50%		
1.25	27%	99%	66%	42%		
0.630	19%	96%	60%	35%		
0.315	13%	90%	54%	29%		
0.160	9%	81%	44%	21%		
0.080	6%	72%	33%	16%		
M.C.(%)	2%	37%	11%	4%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	51	0	21	40		
% SAND:	43	28	46	44		
% FINES:	6	72	33	16		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

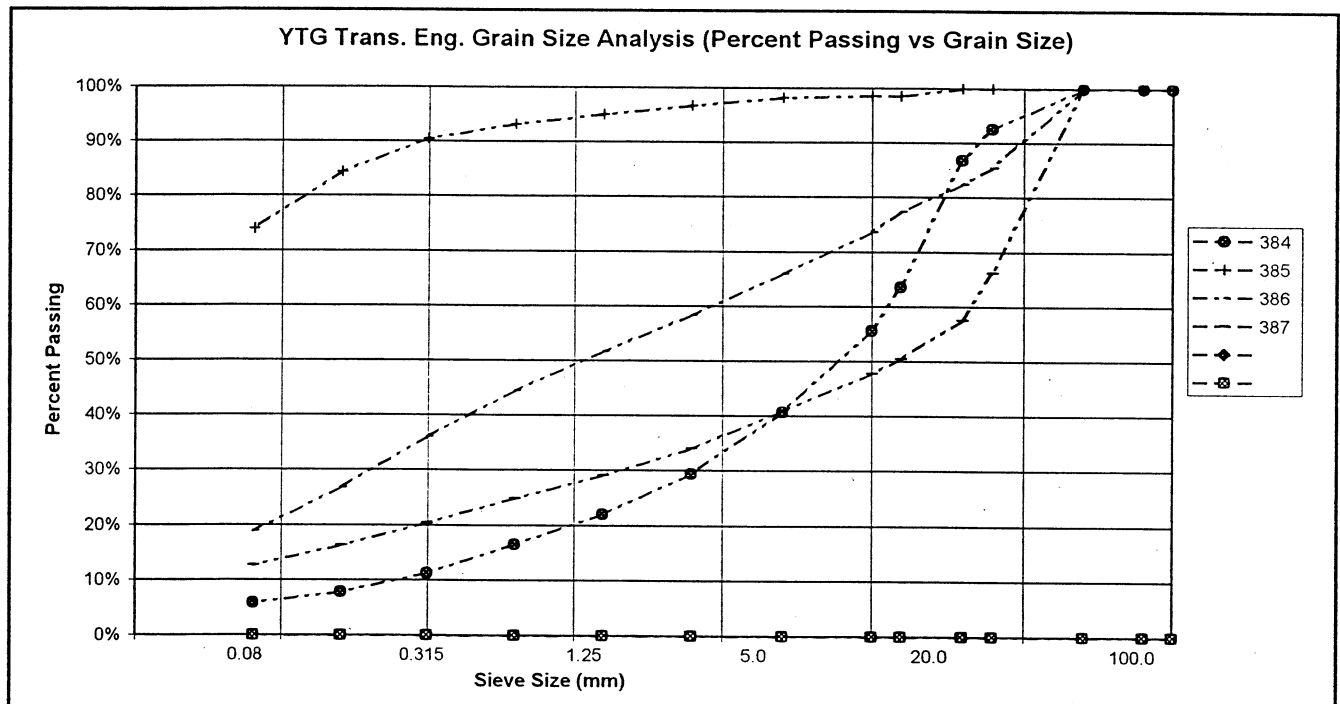


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1750+200 15M LT
 LOGGED BY: W.E.

HOLE No.: 544-1398

DATE COMP: 2000/05/17

FIELD NO:	384	385	386	387		
LAB NO:	687	688	689	690		
DEPTH:	1.4-1.6	2.0-2.4	3.0-3.2	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	93%	100%	85%	66%		
20.0	87%	100%	82%	57%		
12.5	64%	99%	77%	50%		
10.0	56%	99%	74%	48%		
5.0	41%	98%	66%	41%		
2.5	29%	97%	58%	34%		
1.25	22%	95%	52%	29%		
0.630	17%	93%	44%	25%		
0.315	11%	91%	36%	20%		
0.160	8%	84%	27%	16%		
0.080	6%	74%	19%	13%		
M.C.(%):	2%	24%	7%	5%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	59	2	34	59		
% SAND:	35	24	47	28		
% FINES:	6	74	19	13		
CLASSIFICATION	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

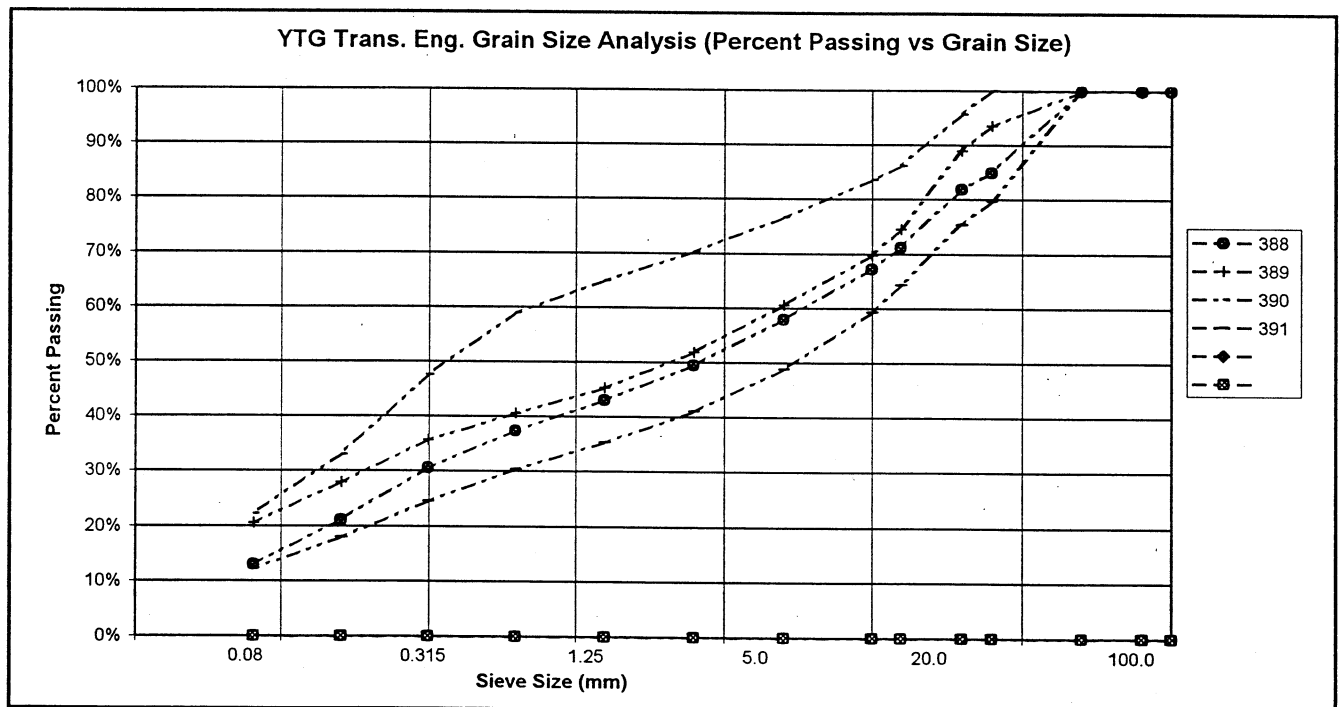


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1750+240 15M RT
 LOGGED BY: W.E.

HOLE No.: 544-1399

DATE COMP: 2000/05/17

FIELD NO:	388	389	390	391		
LAB NO:	691	692	693	694		
DEPTH:	0.8-1.0	1.9-2.1	3.0-3.2	4.4-4.6		
TYPE:	AUGER	#N/A	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	85%	94%	100%	80%		
20.0	82%	89%	96%	75%		
12.5	71%	75%	86%	64%		
10.0	67%	70%	84%	59%		
5.0	58%	61%	77%	49%		
2.5	49%	52%	70%	41%		
1.25	43%	45%	65%	35%		
0.630	37%	41%	59%	30%		
0.315	31%	36%	48%	25%		
0.160	21%	28%	33%	18%		
0.080	13%	21%	22%	12%		
M.C.(%)	3%	5%	7%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0	0.0		
% GRAVEL:	42	39	23	51		
% SAND:	45	40	54	37		
% FINES:	13	21	22	12		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

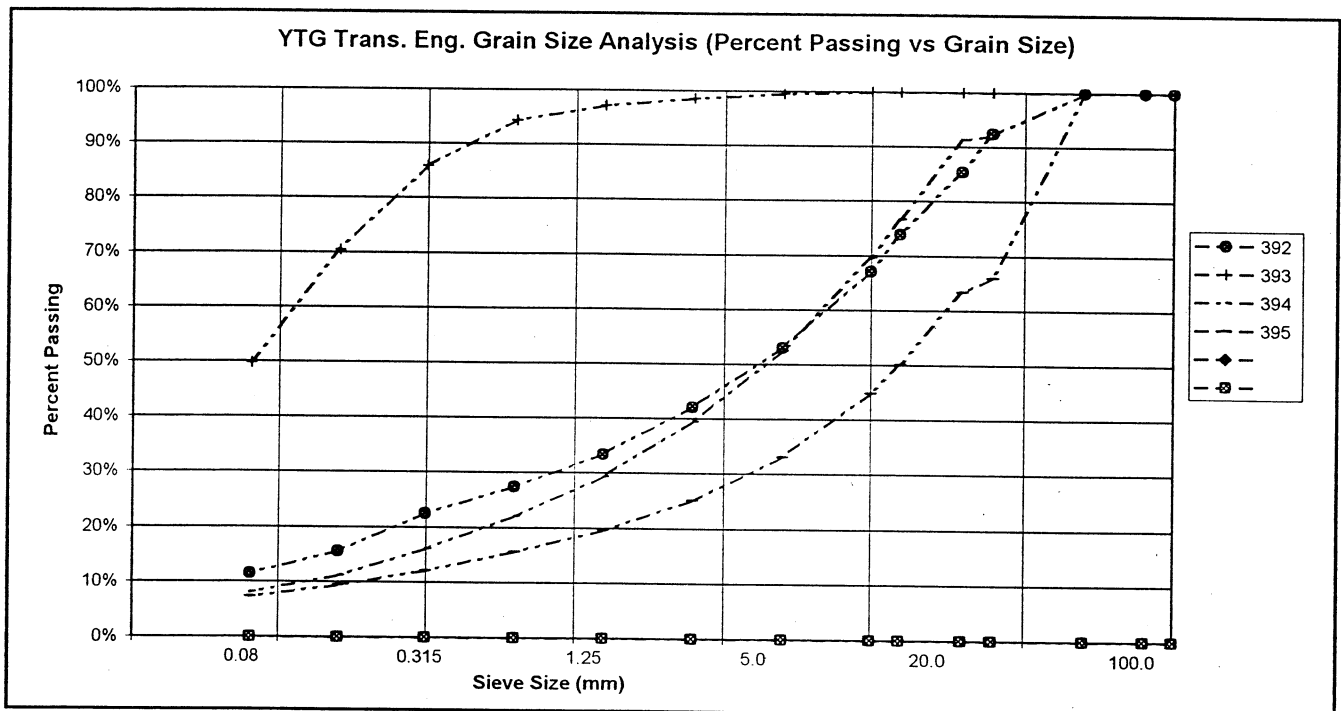


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: KM 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1750+300 CL
 LOGGED BY: W.E.

HOLE No.: 544-1400

DATE COMP: 2000/05/17

FIELD NO:	392	393	394	395		
LAB NO:	695	696	697	698		
DEPTH:	1.4-1.6	2.0-2.2	2.9-3.1	4.4-4.6		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	92%	100%	92%	66%		
20.0	85%	100%	91%	63%		
12.5	74%	100%	77%	50%		
10.0	67%	100%	70%	45%		
5.0	53%	100%	52%	33%		
2.5	42%	99%	39%	25%		
1.25	33%	97%	29%	20%		
0.630	28%	94%	22%	16%		
0.315	22%	86%	16%	12%		
0.160	16%	70%	11%	9%		
0.080	11%	50%	8%	7%		
M.C.(%)	2%	25%	3%	3%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	47	0	48	67		
% SAND:	42	50	44	26		
% FINES:	11	50	8	7		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND (SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)		

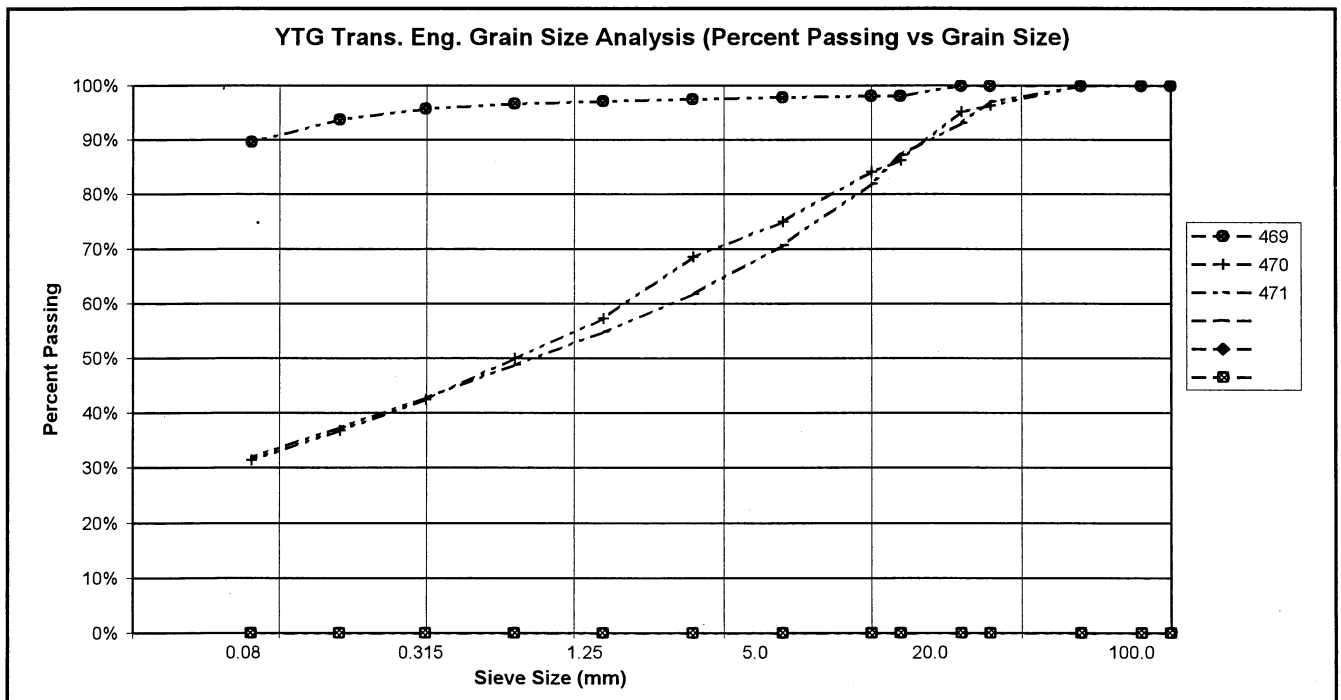


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+832 19M LT
 LOGGED BY: D.T.

HOLE No.: 611-287

DATE COMP: 2001/07/27

FIELD NO:	469	470	471		
LAB NO:	1215	1216	1217		
DEPTH:	1.3-1.4	2.6-2.7	4.4-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	96%	97%		
20.0	100%	95%	93%		
12.5	98%	86%	87%		
10.0	98%	84%	82%		
5.0	98%	75%	71%		
2.5	97%	69%	62%		
1.25	97%	57%	55%		
0.630	97%	50%	49%		
0.315	96%	42%	43%		
0.160	94%	37%	37%		
0.080	90%	31%	32%		
M.C.(%)	33%	8%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	2	25	29		
% SAND:	8	44	39		
% FINES:	90	31	32		
CLASSIFICATION	SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

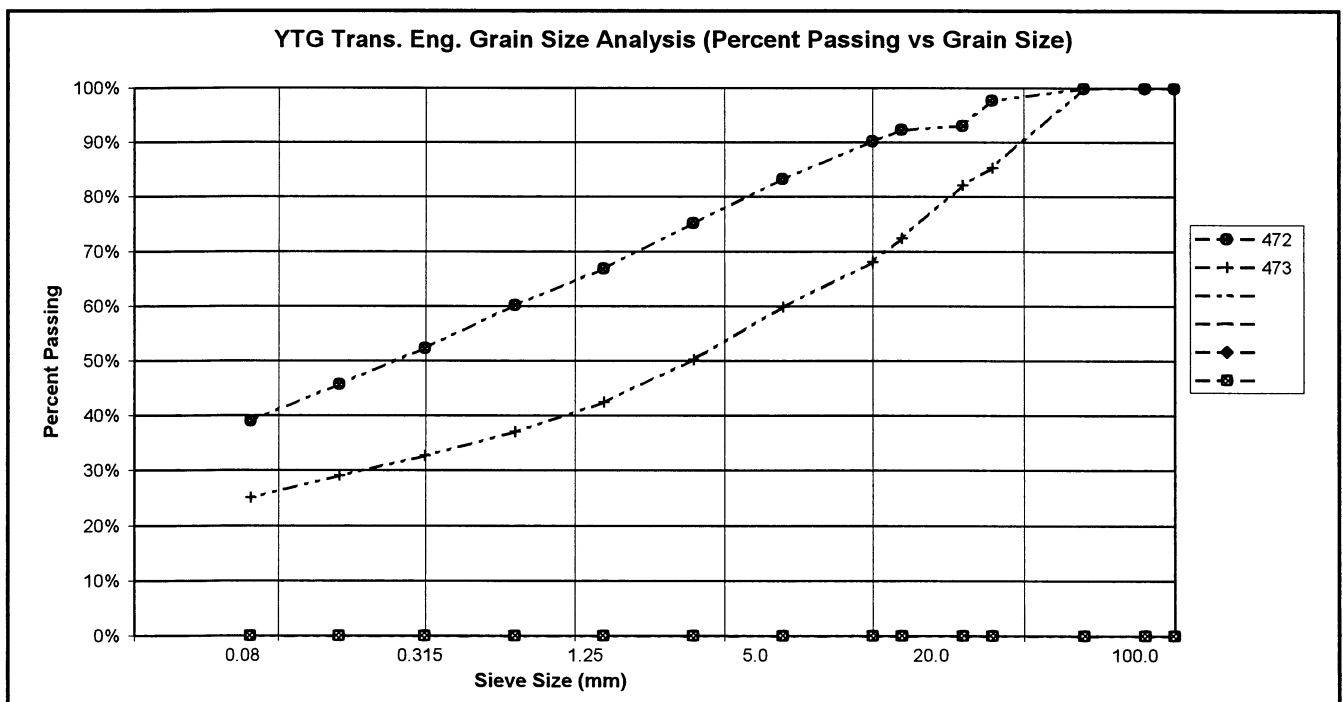


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+775 12M LT
 LOGGED BY: D.T.

HOLE No.: 611-288

DATE COMP: 2001/07/27

FIELD NO:	472	473			
LAB NO:	1218	1219			
DEPTH:	0.8-1.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	98%	85%			
20.0	93%	82%			
12.5	92%	72%			
10.0	90%	68%			
5.0	83%	60%			
2.5	75%	50%			
1.25	67%	42%			
0.630	60%	37%			
0.315	52%	33%			
0.160	46%	29%			
0.080	39%	25%			
M.C.(%):	8%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	40			
% SAND:	44	35			
% FINES:	39	25			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			

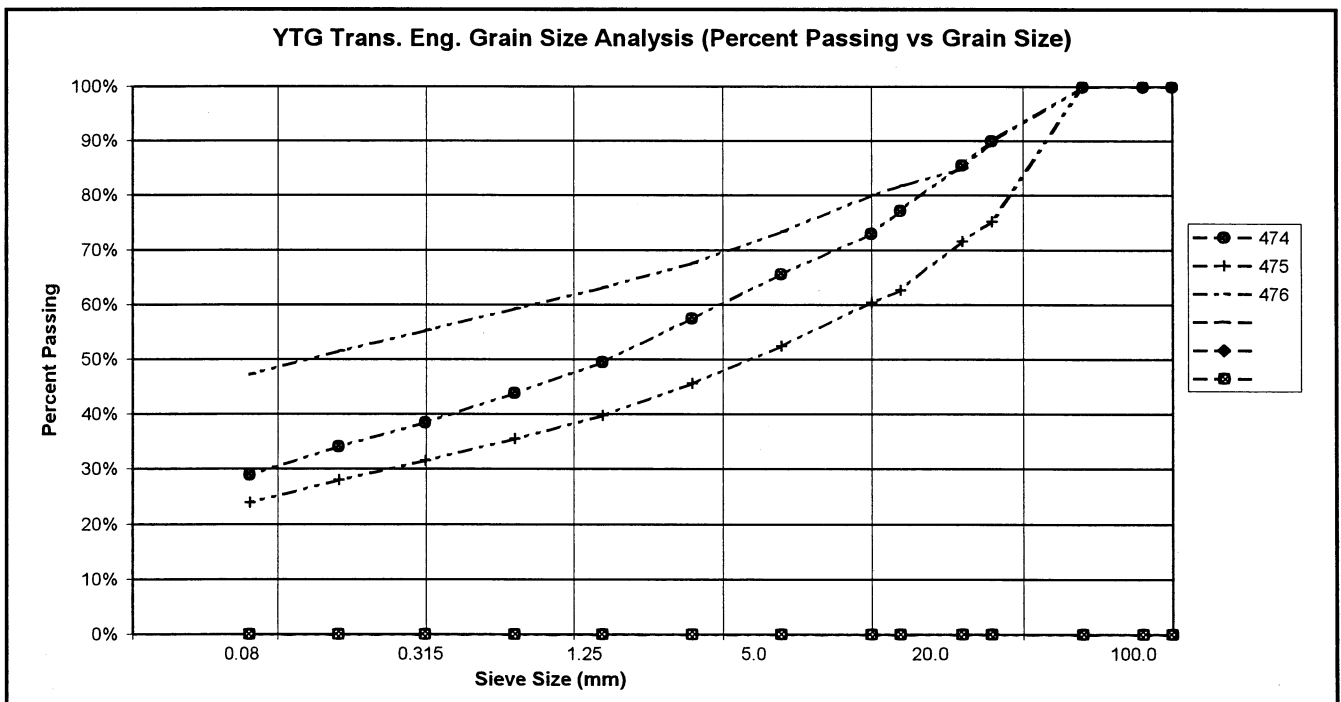


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+764 16M LT
 LOGGED BY: D.T.

HOLE No.: 611-289

DATE COMP: 2001/07/27

FIELD NO:	474	475	476			
LAB NO:	1220	1221	1222			
DEPTH:	1.5-1.7	2.9-3.1	5.7-6.0			
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%	100%			
80.0	100%	100%	100%			
50.0	100%	100%	100%			
25.0	90%	75%	90%			
20.0	86%	72%	85%			
12.5	77%	63%	82%			
10.0	73%	60%	80%			
5.0	66%	52%	73%			
2.5	57%	46%	68%			
1.25	50%	40%	63%			
0.630	44%	36%	59%			
0.315	39%	32%	55%			
0.160	34%	28%	52%			
0.080	29%	24%	47%			
M.C.(%)	7%	5%	8%			
LIQUID LIMIT:	0.0	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0	0.0			
PLASTIC INDEX:	0.0	0.0	0.0			
% GRAVEL:	34	48	27			
% SAND:	37	28	26			
% FINES:	29	24	47			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY GRAVEL WITH SAND (GM)			

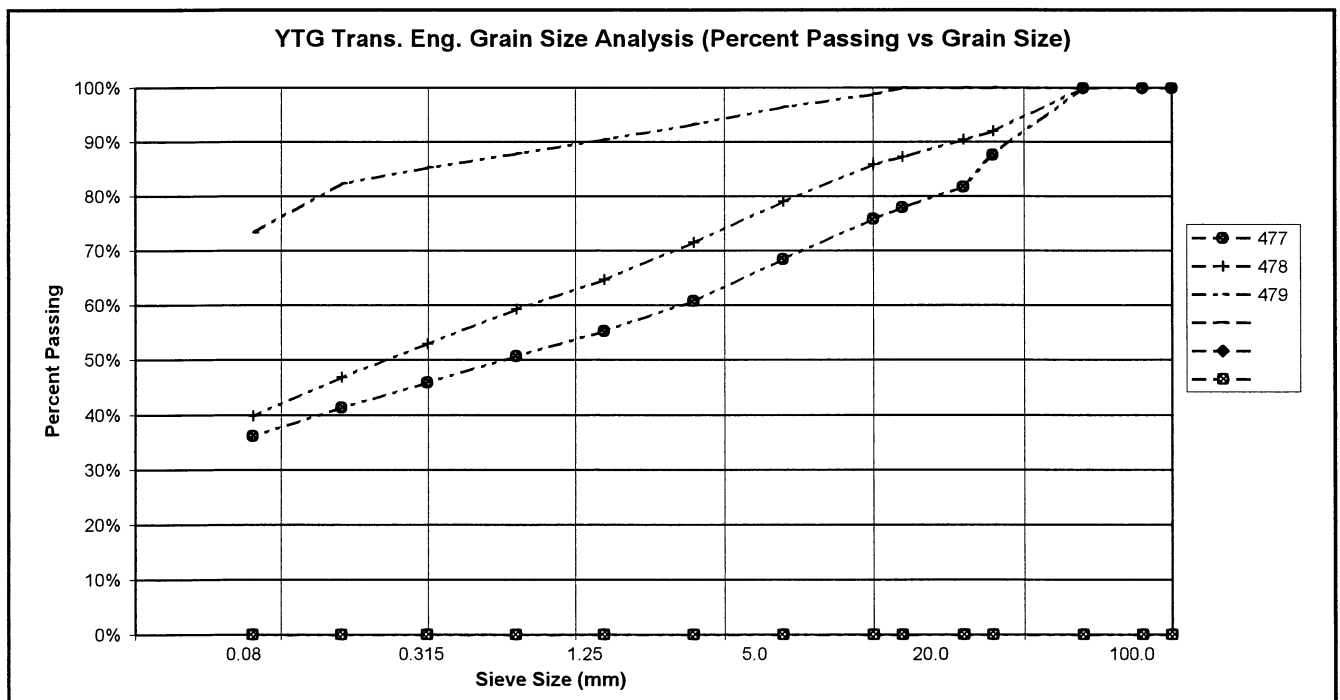


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+623 16M LT
 LOGGED BY: D.T.

HOLE No.: 611-290

DATE COMP: 2001/07/27

FIELD NO:	477	478	479		
LAB NO:	1223	1224	1225		
DEPTH:	1.4-1.6	3.0-3.2	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	88%	92%	100%		
20.0	82%	90%	100%		
12.5	78%	87%	100%		
10.0	76%	86%	99%		
5.0	68%	79%	97%		
2.5	61%	72%	93%		
1.25	55%	65%	90%		
0.630	51%	59%	88%		
0.315	46%	53%	85%		
0.160	41%	47%	82%		
0.080	36%	40%	73%		
M.C.(%)	8%	8%	12%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	32	21	3		
% SAND:	32	39	23		
% FINES:	36	40	73		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILT WITH SAND (ML)		

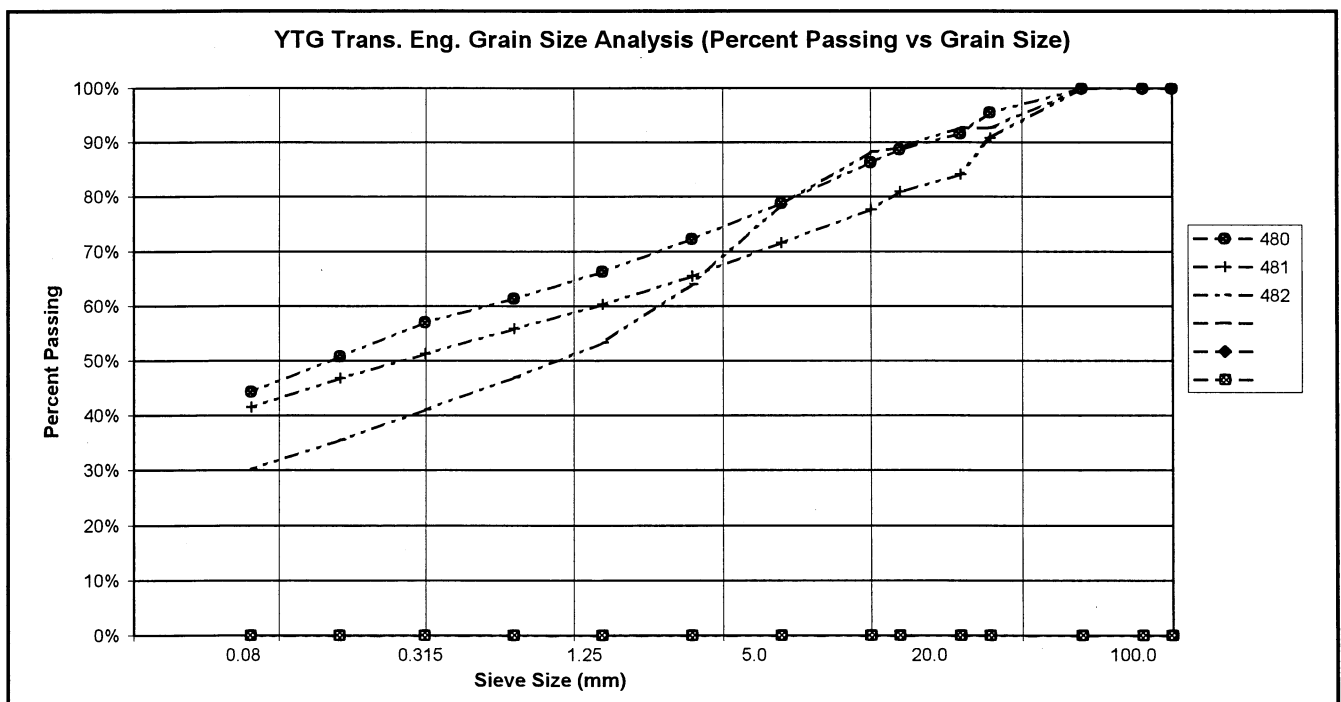


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+550 17M LT
 LOGGED BY: D.T.

HOLE No.: 611-291

DATE COMP: 2001/07/27

FIELD NO:	480	481	482		
LAB NO:	1226	1227	1228		
DEPTH:	1.3-1.5	2.9-3.1	5.8-6.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	96%	91%	93%		
20.0	92%	84%	93%		
12.5	89%	81%	89%		
10.0	86%	78%	88%		
5.0	79%	72%	79%		
2.5	72%	65%	64%		
1.25	66%	60%	53%		
0.630	61%	56%	47%		
0.315	57%	51%	41%		
0.160	51%	47%	36%		
0.080	44%	42%	30%		
M.C.(%)	9%	8%	7%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	21	28	21		
% SAND:	34	30	48		
% FINES:	44	42	30		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

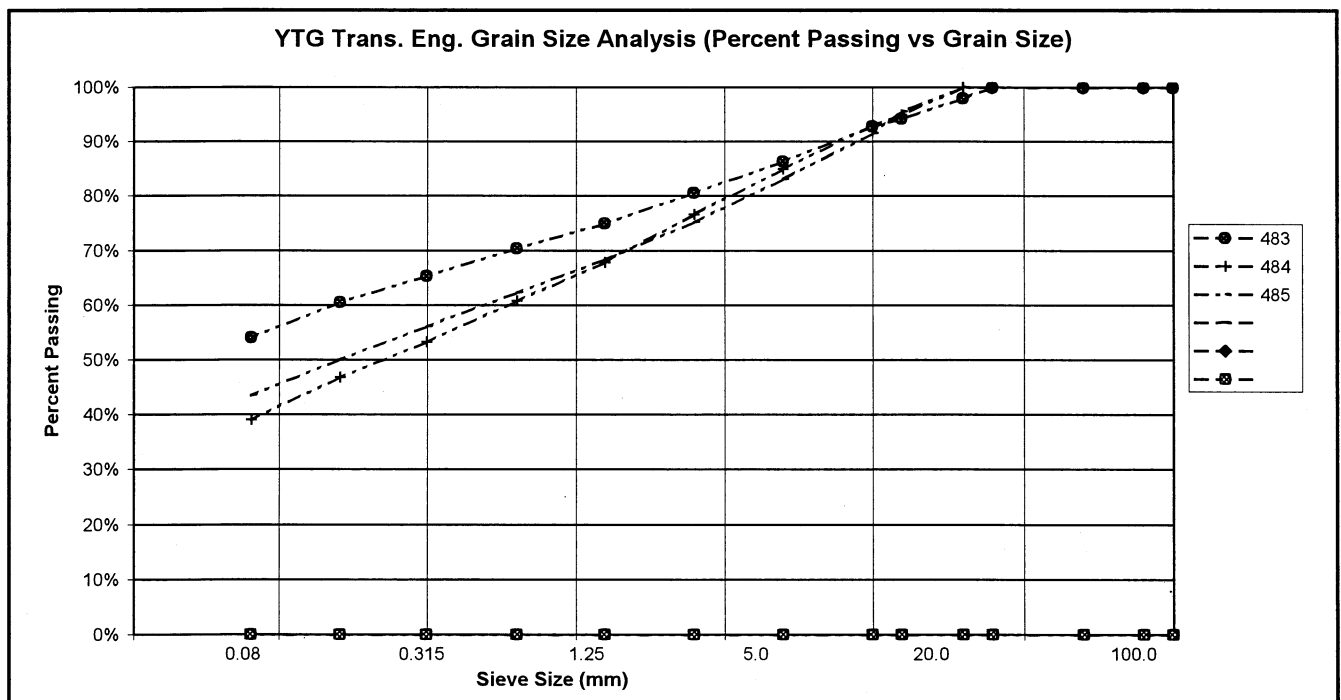


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+450 22M LT
 LOGGED BY: D.T.

HOLE No.: 611-292

DATE COMP: 2001/07/27

FIELD NO:	483	484	485		
LAB NO:	1229	1230	1231		
DEPTH:	1.3-1.5	2.9-3.1	5.8-6.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	98%	100%	100%		
12.5	94%	95%	96%		
10.0	93%	93%	92%		
5.0	86%	85%	83%		
2.5	81%	77%	75%		
1.25	75%	68%	68%		
0.630	70%	61%	62%		
0.315	65%	53%	56%		
0.160	61%	47%	50%		
0.080	54%	39%	44%		
M.C.(%)	13%	8%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	14	15	17		
% SAND:	32	46	40		
% FINES:	54	39	44		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)		

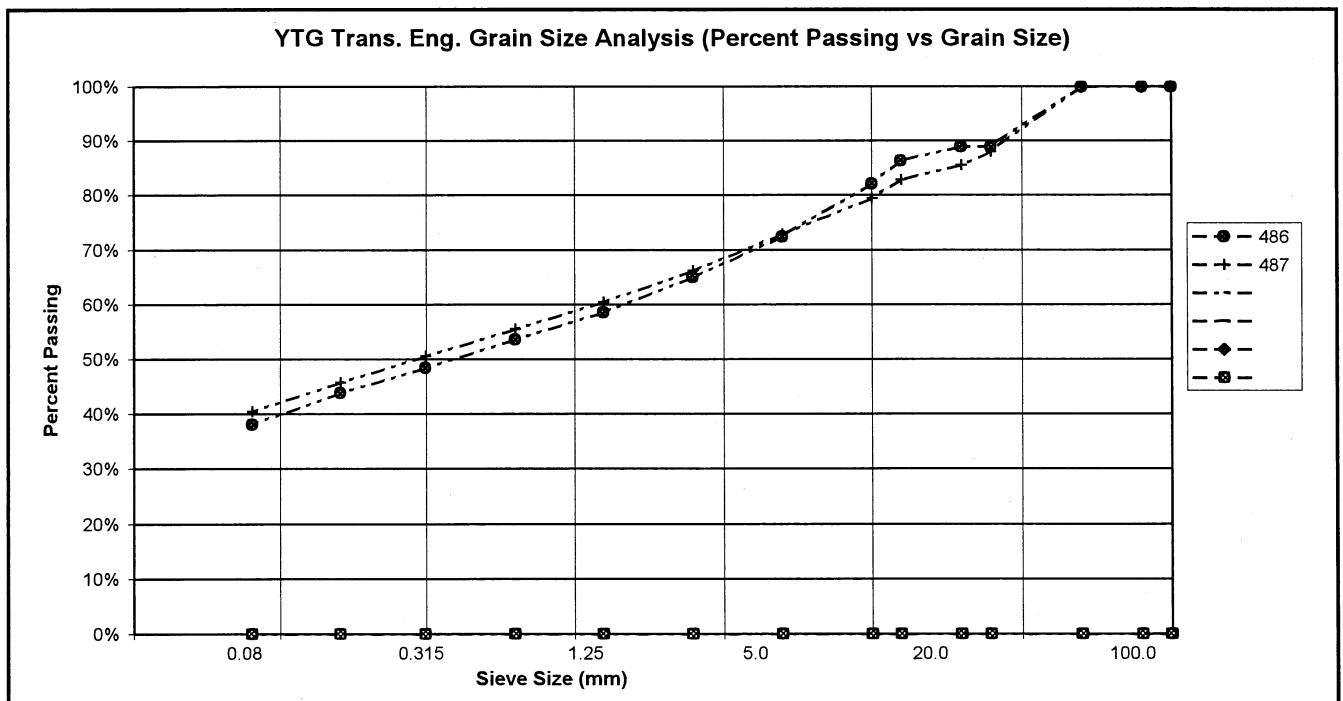


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+350 10 LT
 LOGGED BY: D.T.

HOLE No.: 611-293

DATE COMP: 2001/07/27

FIELD NO:	486	487			
LAB NO:	1232	1233			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	89%	88%			
20.0	89%	86%			
12.5	86%	83%			
10.0	82%	80%			
5.0	72%	73%			
2.5	65%	66%			
1.25	59%	60%			
0.630	54%	56%			
0.315	49%	51%			
0.160	44%	46%			
0.080	38%	41%			
M.C.(%):	9%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	28	27			
% SAND:	34	32			
% FINES:	38	41			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

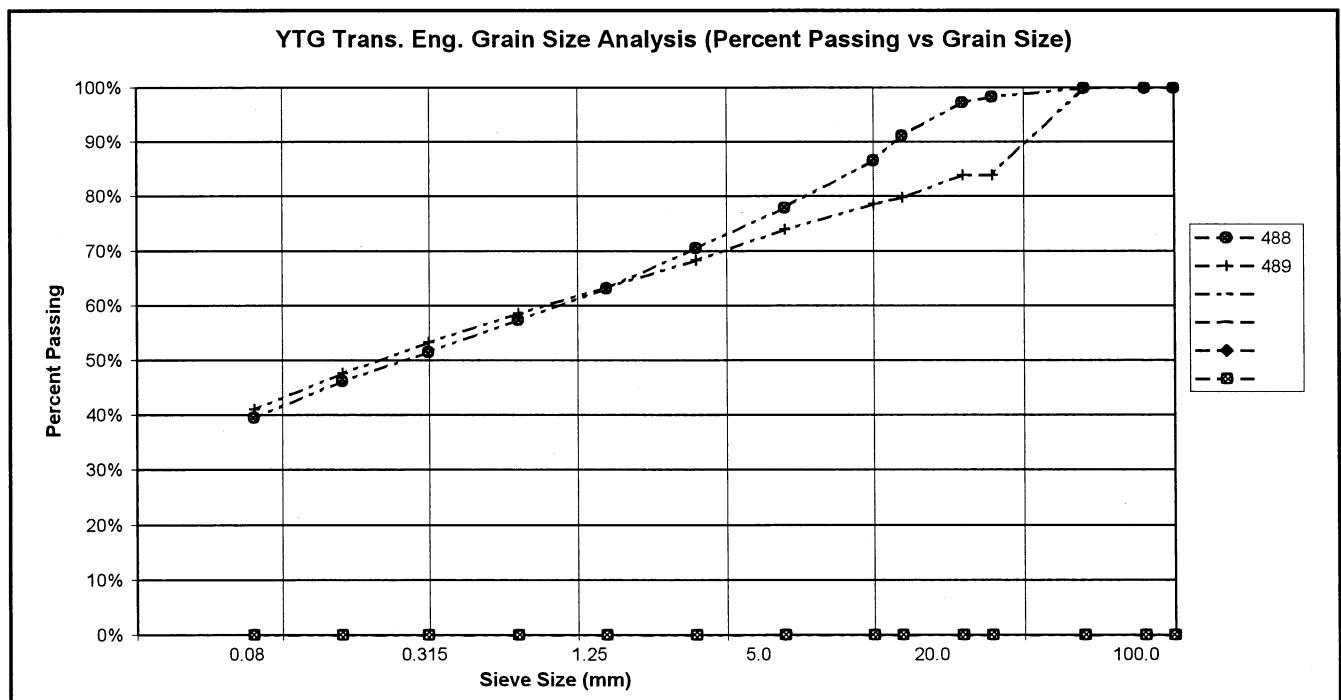


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+275 20m It
 LOGGED BY: D.T.

HOLE No.: 611-294

DATE COMP: 2001/07/27

FIELD NO:	488	489			
LAB NO:	1234	1235			
DEPTH:	1.3-1.5	5.8-6.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	98%	84%			
20.0	97%	84%			
12.5	91%	80%			
10.0	87%	79%			
5.0	78%	74%			
2.5	71%	68%			
1.25	63%	63%			
0.630	57%	59%			
0.315	52%	53%			
0.160	46%	48%			
0.080	40%	41%			
M.C.(%):	9%	7%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	22	26			
% SAND:	38	33			
% FINES:	40	41			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

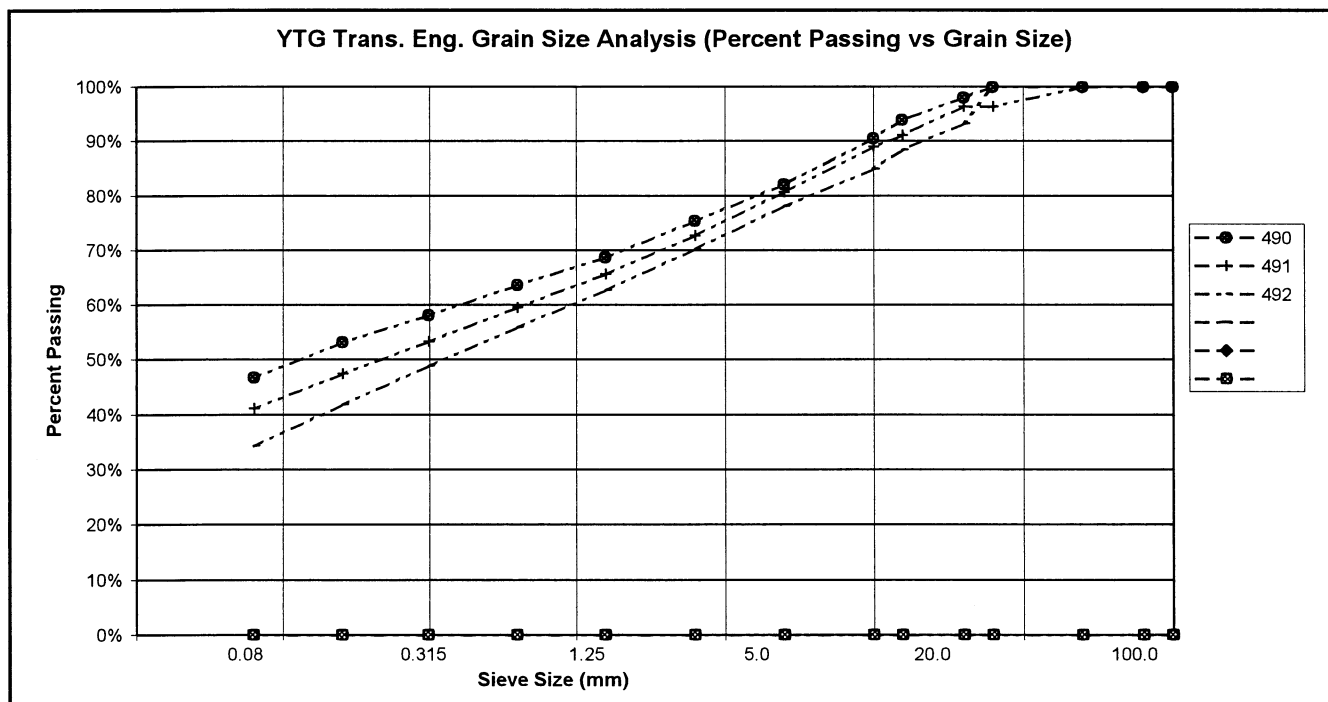


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+204 11M LT
 LOGGED BY: D.T.

HOLE No.: 611-295

DATE COMP: 2001/07/27

FIELD NO:	490	491	492			
LAB NO:	1236	1237	1238			
DEPTH:	1.2-1.4	2.9-3.1	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%	100%			
80.0	100%	100%	100%			
50.0	100%	100%	100%			
25.0	100%	96%	100%			
20.0	98%	96%	93%			
12.5	94%	91%	88%			
10.0	91%	89%	85%			
5.0	82%	81%	78%			
2.5	75%	73%	70%			
1.25	69%	66%	63%			
0.630	64%	60%	56%			
0.315	58%	53%	49%			
0.160	53%	47%	42%			
0.080	47%	41%	34%			
M.C.(%)	9%	8%	8%			
LIQUID LIMIT:	0.0	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0	0.0			
% GRAVEL:	18	19	22			
% SAND:	35	40	44			
% FINES:	47	41	34			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

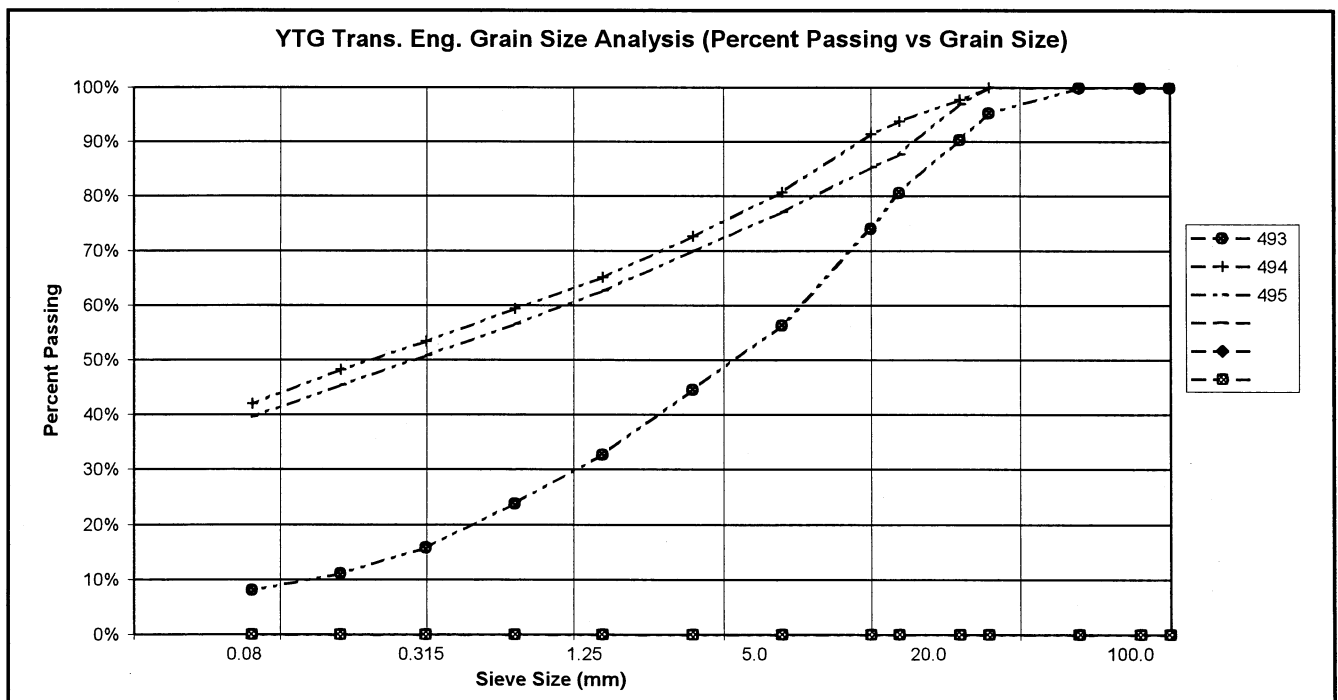


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+100 11M LT
 LOGGED BY: D.T.

HOLE No.: 611-296

DATE COMP: 2001/07/27

FIELD NO:	493	494	495		
LAB NO:	1239	1240	1241		
DEPTH:	1.3-1.5	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	95%	100%	100%		
20.0	90%	98%	97%		
12.5	81%	94%	88%		
10.0	74%	91%	85%		
5.0	56%	81%	77%		
2.5	45%	73%	70%		
1.25	33%	65%	63%		
0.630	24%	59%	57%		
0.315	16%	53%	51%		
0.160	11%	48%	45%		
0.080	8%	42%	40%		
M.C.(%)	3%	8%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	44	19	23		
% SAND:	48	39	37		
% FINES:	8	42	40		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

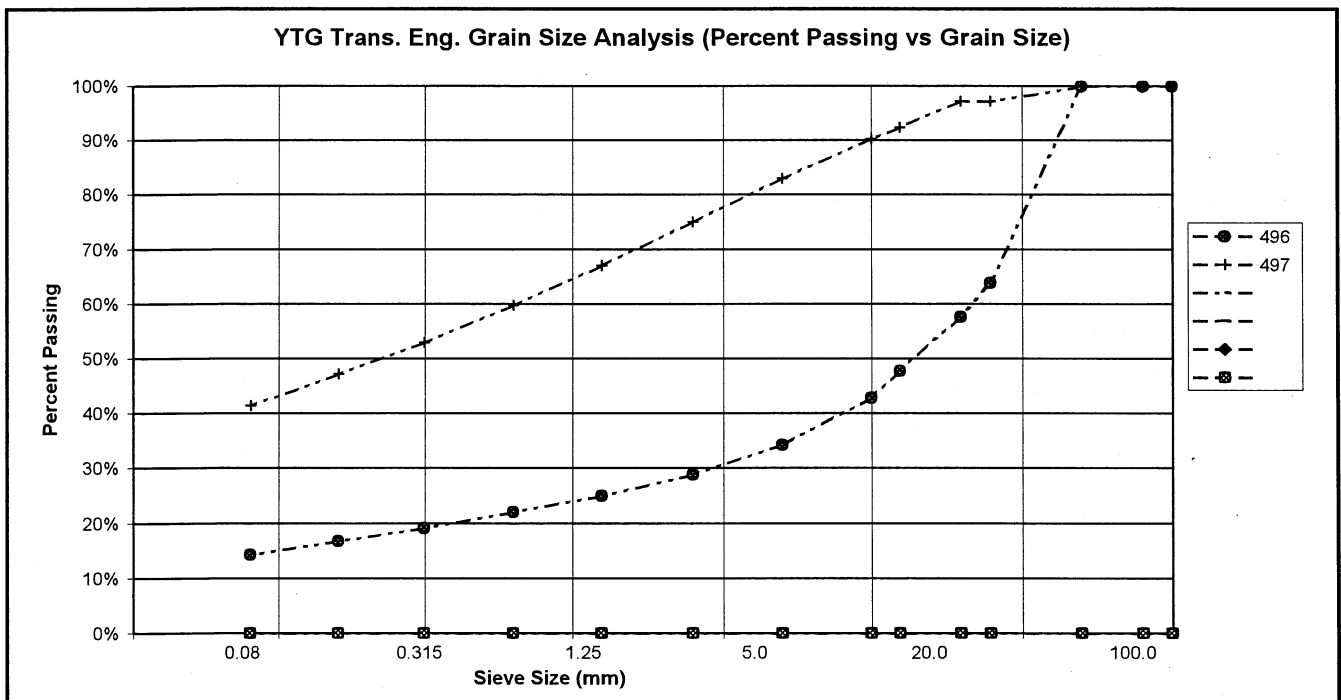


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+000 11 M LT
 LOGGED BY: D.T.

HOLE No.: 611-297

DATE COMP: 2001/07/27

FIELD NO:	496	497			
LAB NO:	1242	1243			
DEPTH:	1.2-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	64%	97%			
20.0	58%	97%			
12.5	48%	92%			
10.0	43%	90%			
5.0	34%	83%			
2.5	29%	75%			
1.25	25%	67%			
0.630	22%	60%			
0.315	19%	53%			
0.160	17%	47%			
0.080	14%	41%			
M.C.(%)	5%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	66	17			
% SAND:	20	42			
% FINES:	14	41			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SILTY SAND WITH GRAVEL (SM)			

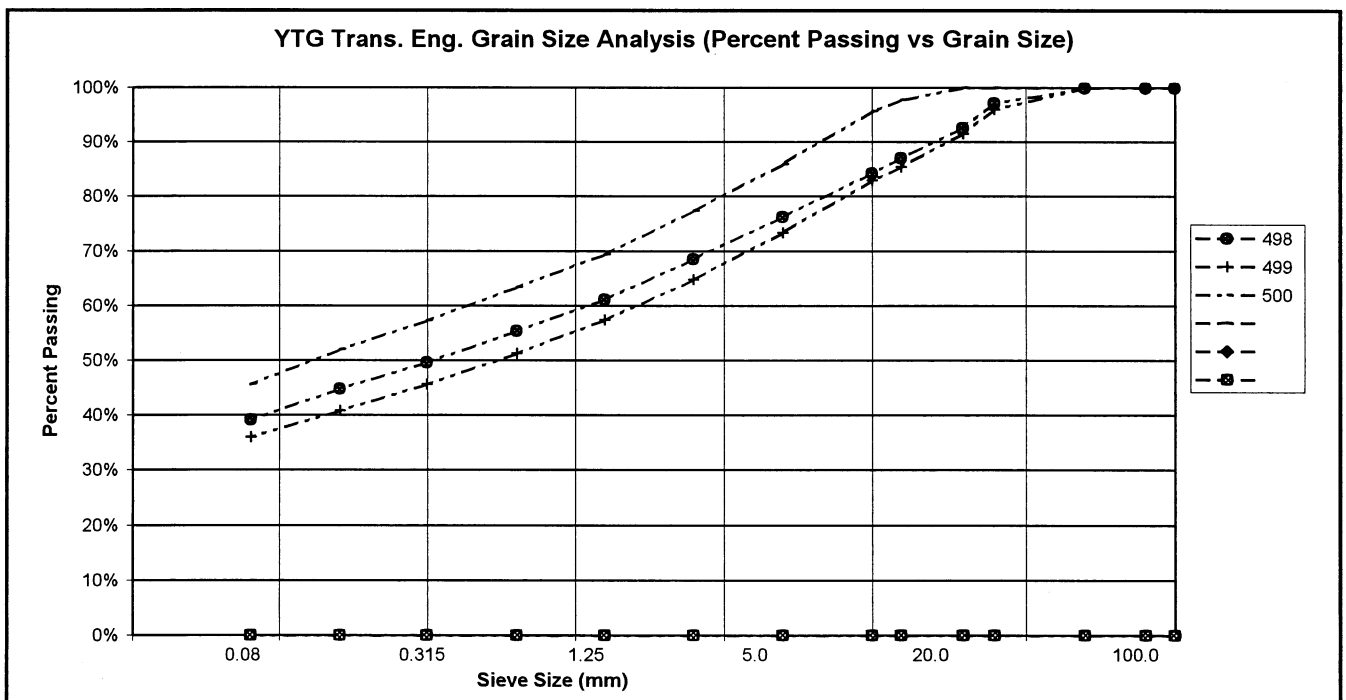


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+900 12M LT
 LOGGED BY: D.T.

HOLE No.: 611-298

DATE COMP: 2001/07/27

FIELD NO:	498	499	500		
LAB NO:	1244	1245	1246		
DEPTH:	1.2-1.4	3.0-3.2	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	97%	96%	100%		
20.0	93%	92%	100%		
12.5	87%	85%	98%		
10.0	84%	83%	96%		
5.0	76%	73%	86%		
2.5	69%	65%	77%		
1.25	61%	57%	69%		
0.630	55%	51%	63%		
0.315	50%	46%	57%		
0.160	45%	41%	52%		
0.080	39%	36%	46%		
M.C.(%):	9%	8%	10%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	24	27	14		
% SAND:	37	37	40		
% FINES:	39	36	46		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

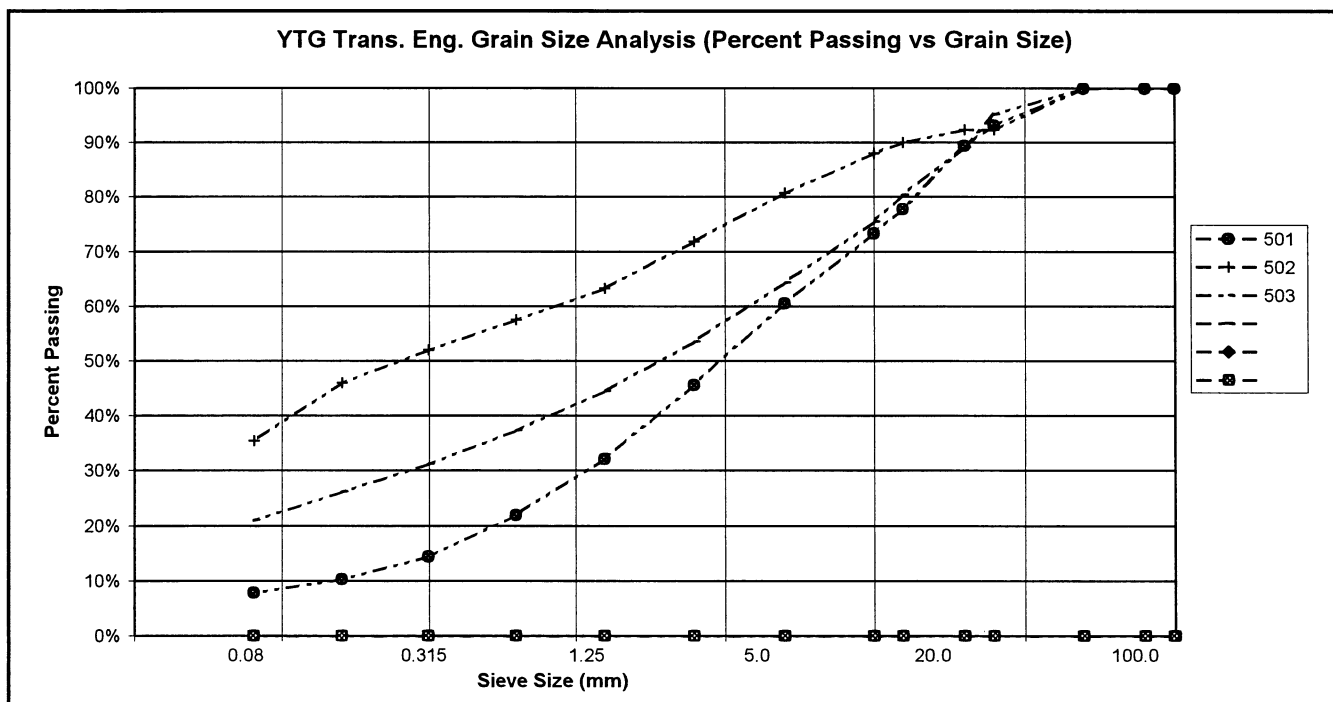


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+782 10M LT
 LOGGED BY: D.T.

HOLE No.: 611-299

DATE COMP: 2001/07/27

FIELD NO:	501	502	503		
LAB NO:	1247	1248	1249		
DEPTH:	1.3-1.5	3.0-3.2	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	93%	92%	95%		
20.0	89%	92%	89%		
12.5	78%	90%	80%		
10.0	73%	88%	75%		
5.0	61%	81%	64%		
2.5	46%	72%	54%		
1.25	32%	63%	45%		
0.630	22%	57%	37%		
0.315	14%	52%	31%		
0.160	10%	46%	26%		
0.080	8%	35%	21%		
M.C.(%):	4%	14%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	39	19	36		
% SAND:	53	45	43		
% FINES:	8	35	21		
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

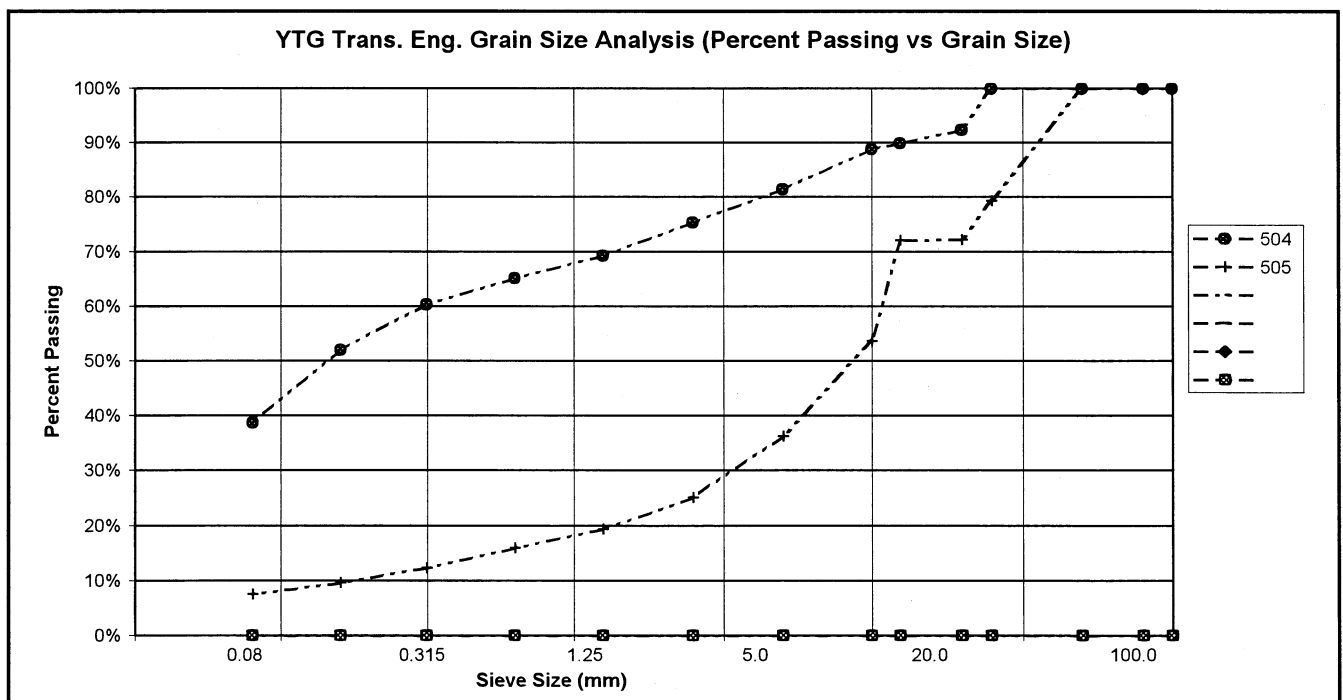


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+675 9M LT
 LOGGED BY: D.T.

HOLE No.: 611-300

DATE COMP: 2001/07/27

FIELD NO:	504	505			
LAB NO:	1250	1251			
DEPTH:	0.8-1.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	79%			
20.0	92%	72%			
12.5	90%	72%			
10.0	89%	54%			
5.0	81%	36%			
2.5	75%	25%			
1.25	69%	19%			
0.630	65%	16%			
0.315	60%	12%			
0.160	52%	10%			
0.080	39%	8%			
M.C.(%)	12%	3%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	19	64			
% SAND:	43	29			
% FINES:	39	8			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)			

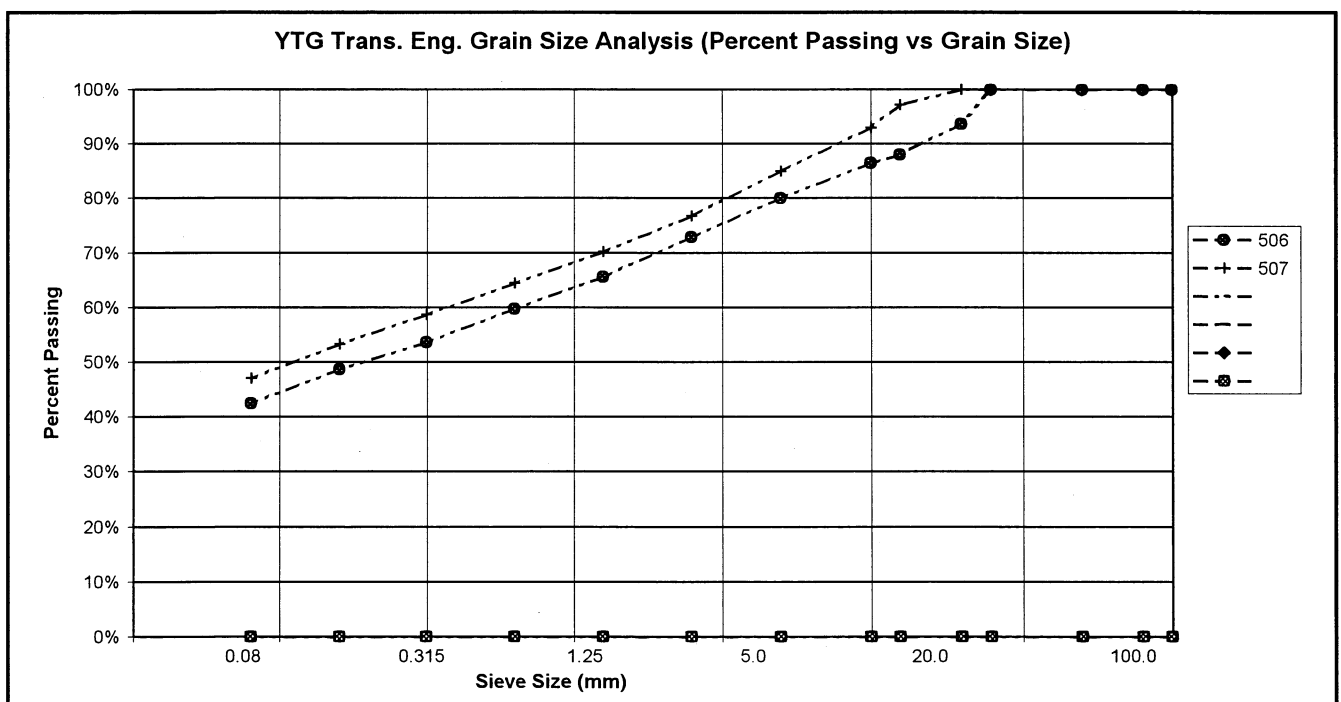


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+575 12M LT
 LOGGED BY: D.T.

HOLE No.: 611-301

DATE COMP: 2001/07/27

FIELD NO:	506	507			
LAB NO:	1252	1253			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	94%	100%			
12.5	88%	97%			
10.0	87%	93%			
5.0	80%	85%			
2.5	73%	77%			
1.25	66%	70%			
0.630	60%	64%			
0.315	54%	59%			
0.160	49%	53%			
0.080	42%	47%			
M.C.(%):	9%	9%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	20	15			
% SAND:	38	38			
% FINES:	42	47			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)			

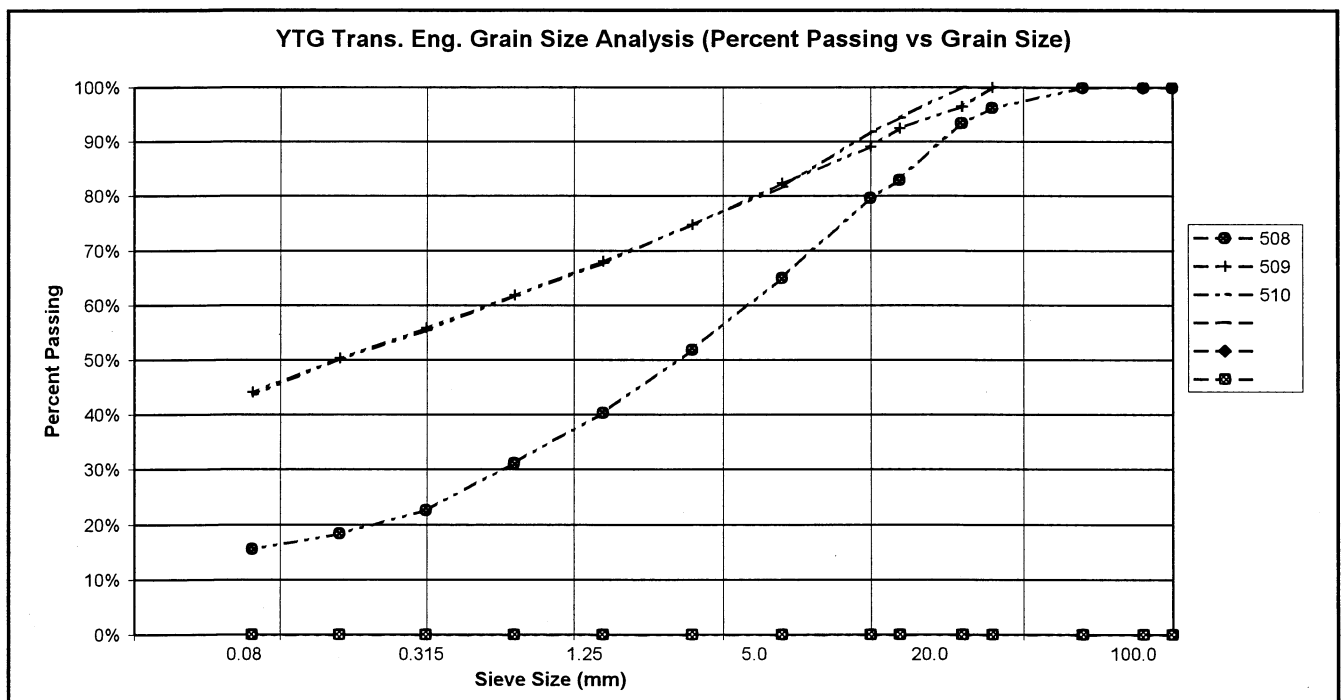


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+475 13M LT
 LOGGED BY: D.T.

HOLE No.: 611-302

DATE COMP: 2001/07/27

FIELD NO:	508	509	510		
LAB NO:	1254	1255	1256		
DEPTH:	1.2-1.4	2.9-3.1	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	96%	100%	100%		
20.0	93%	96%	100%		
12.5	83%	93%	94%		
10.0	80%	89%	92%		
5.0	65%	82%	82%		
2.5	52%	75%	75%		
1.25	40%	68%	68%		
0.630	31%	62%	62%		
0.315	23%	56%	55%		
0.160	18%	50%	50%		
0.080	16%	44%	44%		
M.C.(%):	4%	9%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	35	18	18		
% SAND:	49	38	38		
% FINES:	16	44	44		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

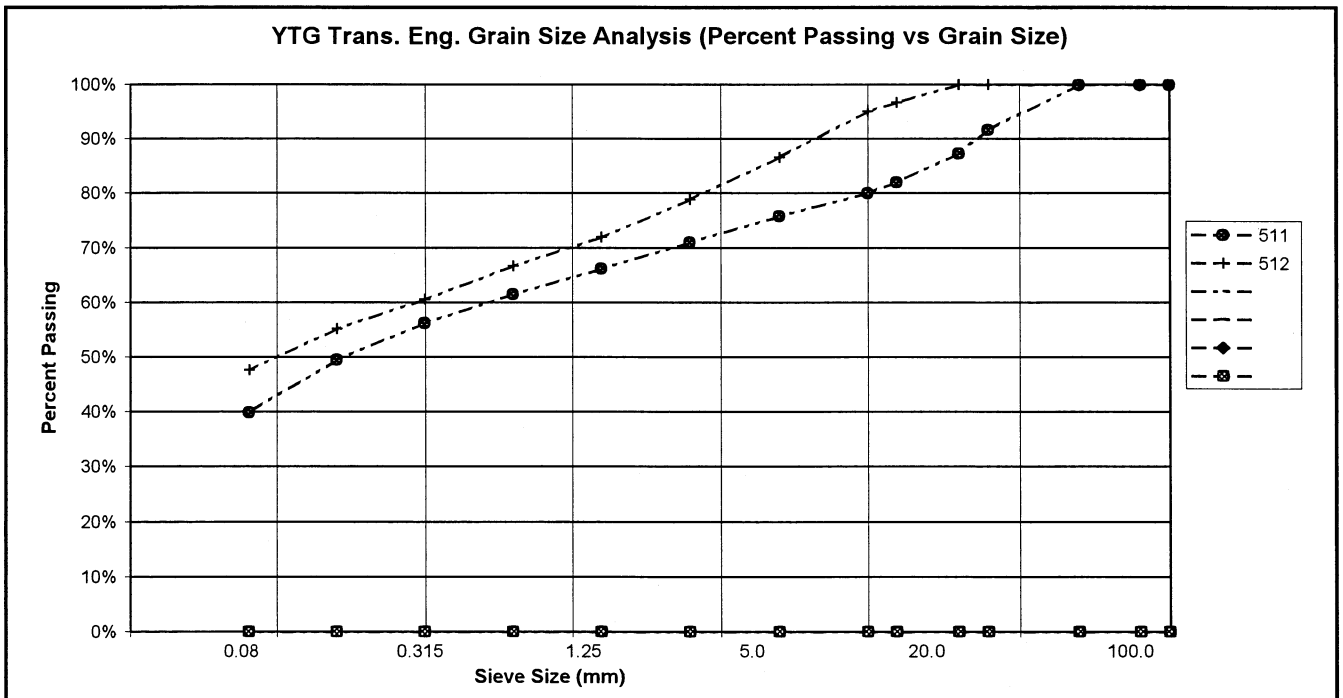


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+375 10M LT
 LOGGED BY: D.T.

HOLE No.: 611-303

DATE COMP: 2001/07/27

FIELD NO:	511	512			
LAB NO:	1257	1258			
DEPTH:	1.0-1.2	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	92%	100%			
20.0	87%	100%			
12.5	82%	97%			
10.0	80%	95%			
5.0	76%	87%			
2.5	71%	79%			
1.25	66%	72%			
0.630	62%	67%			
0.315	56%	61%			
0.160	50%	55%			
0.080	40%	48%			
M.C.(%)	10%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	24	13			
% SAND:	36	39			
% FINES:	40	48			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)			

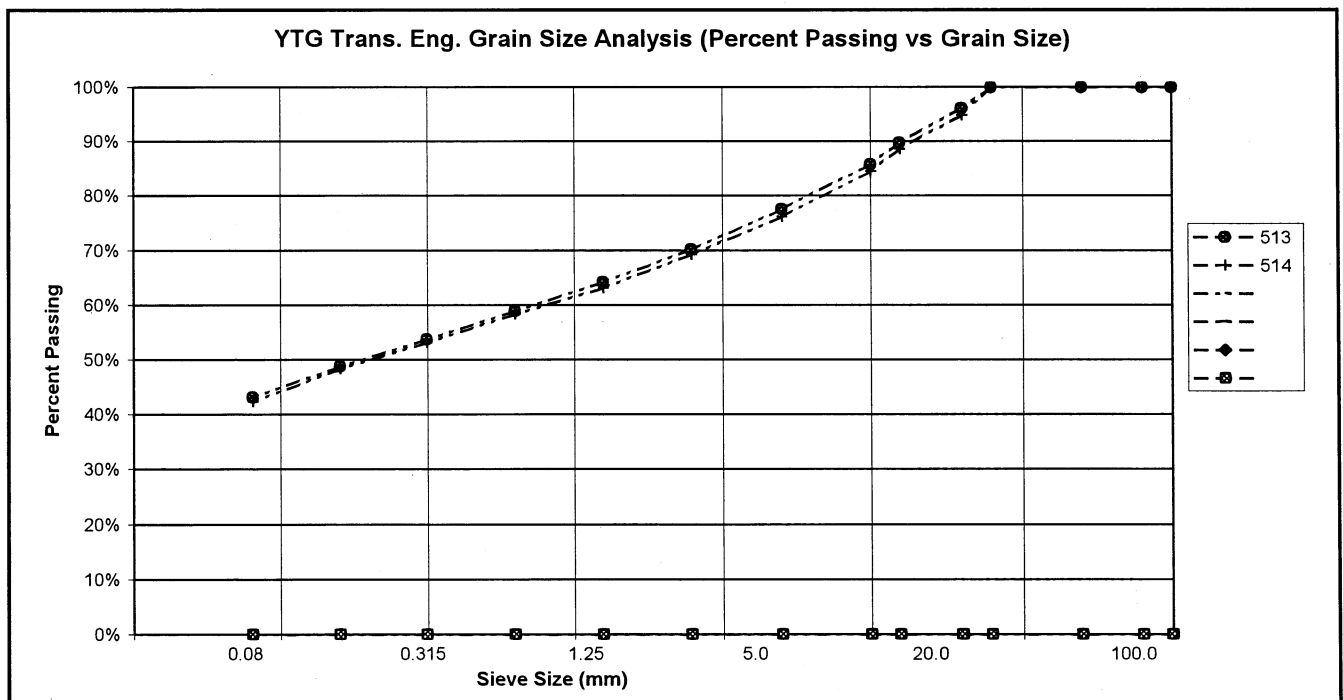


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+275 10M LT
 LOGGED BY: D.T.

HOLE No.: 611-304

DATE COMP: 2001/07/30

FIELD NO:	513	514			
LAB NO:	1259	1260			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	96%	95%			
12.5	90%	89%			
10.0	86%	85%			
5.0	78%	76%			
2.5	70%	69%			
1.25	64%	63%			
0.630	59%	58%			
0.315	54%	53%			
0.160	49%	48%			
0.080	43%	42%			
M.C.(%):	8%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	22	24			
% SAND:	34	34			
% FINES:	43	42			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

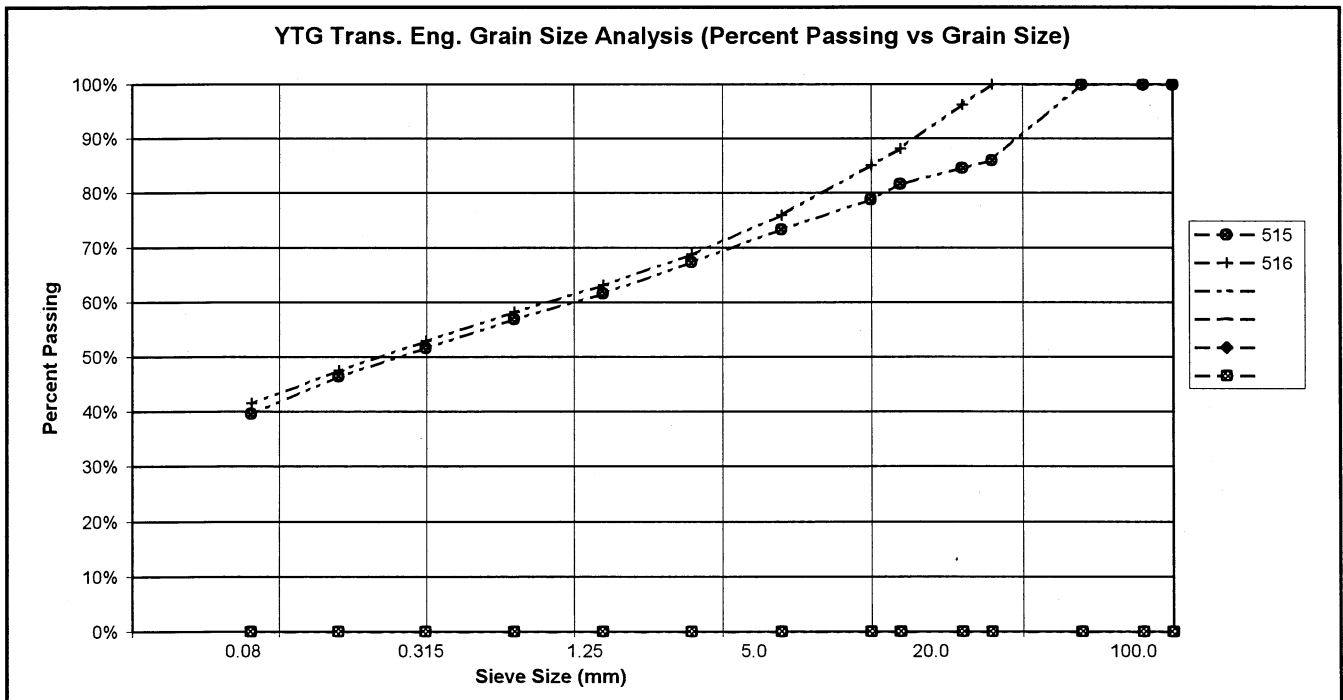


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1471+400 10M RT
 LOGGED BY: D.T.

HOLE No.: 611-305

DATE COMP: 2001/07/30

FIELD NO:	515	516			
LAB NO:	1261	1262			
DEPTH:	1.0-1.2	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	86%	100%			
20.0	85%	96%			
12.5	82%	88%			
10.0	79%	85%			
5.0	73%	76%			
2.5	67%	69%			
1.25	62%	63%			
0.630	57%	58%			
0.315	52%	53%			
0.160	46%	48%			
0.080	40%	42%			
M.C.(%):	9%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	27	24			
% SAND:	34	34			
% FINES:	40	42			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

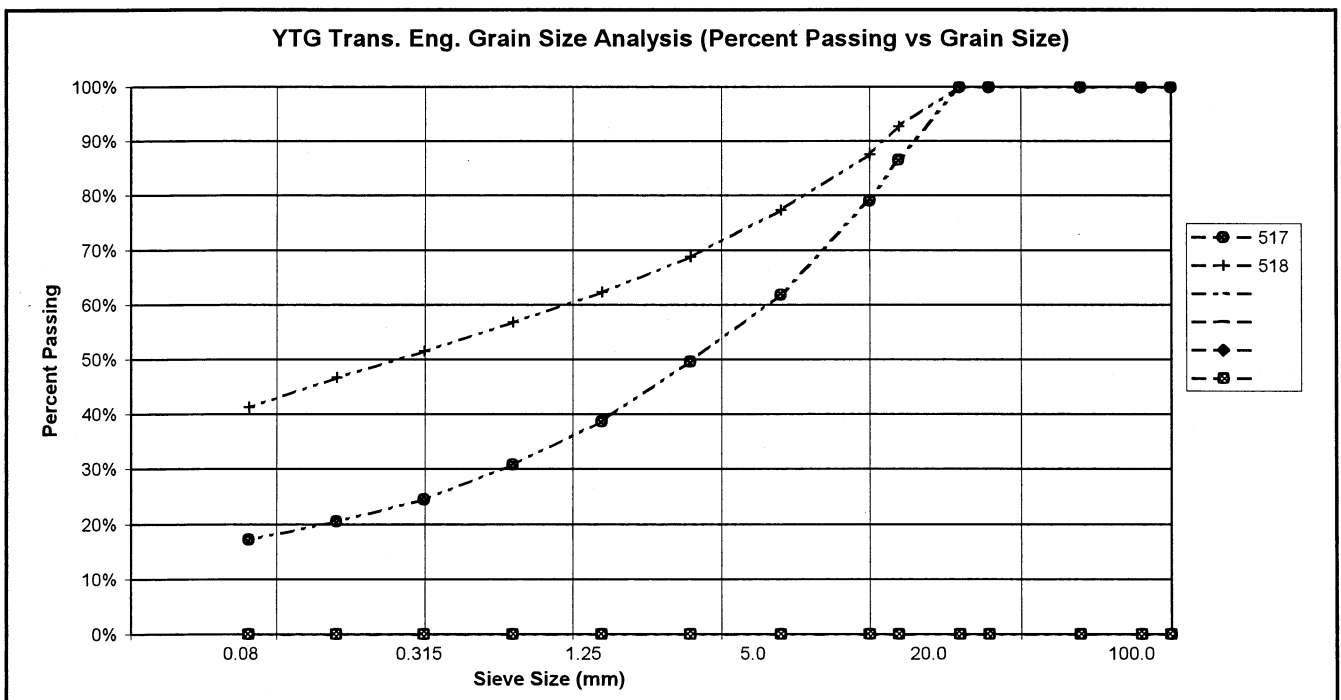


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+600 27M RT
 LOGGED BY: D.T.

HOLE No.: 611-306

DATE COMP: 2001/07/30

FIELD NO:	517	518			
LAB NO:	1263	1264			
DEPTH:	1.2-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	100%			
12.5	87%	93%			
10.0	79%	88%			
5.0	62%	77%			
2.5	50%	69%			
1.25	39%	62%			
0.630	31%	57%			
0.315	25%	52%			
0.160	21%	47%			
0.080	17%	41%			
M.C.(%):	10%	12%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	38	23			
% SAND:	45	36			
% FINES:	17	41			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

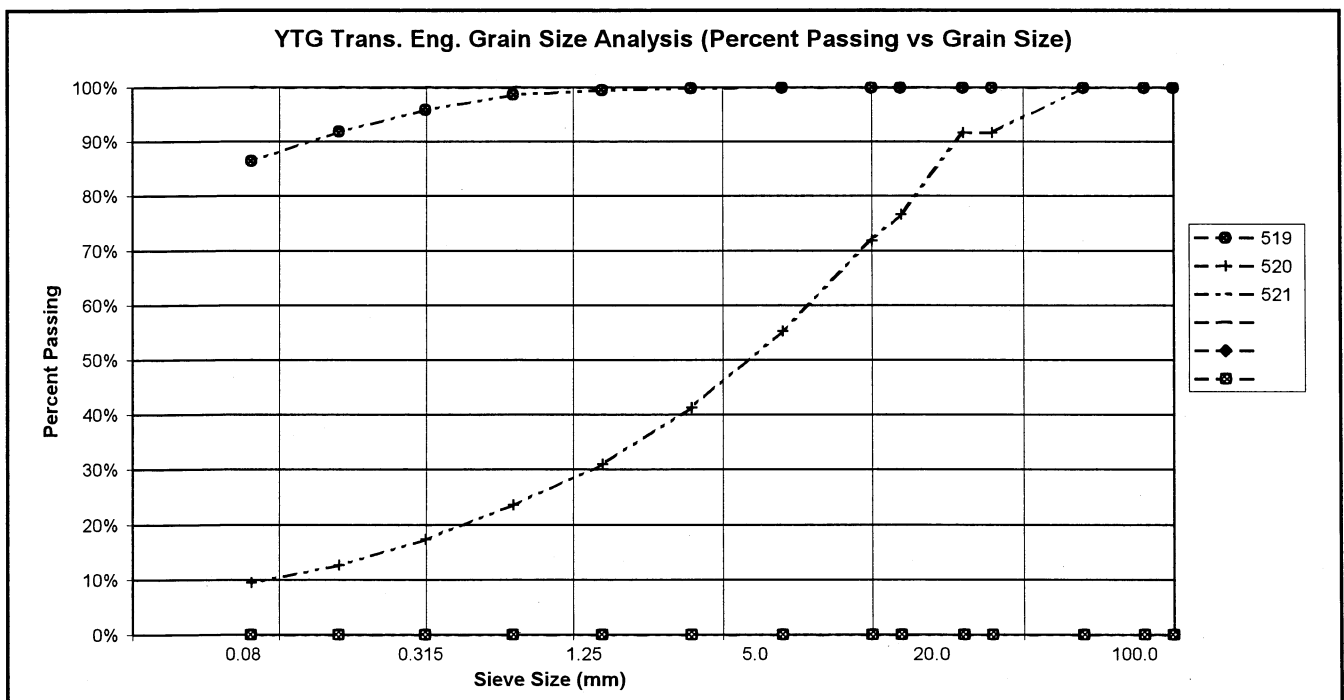


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+775 20M RT
 LOGGED BY: D.T.

HOLE No.: 611-307

DATE COMP: 2001/07/30

FIELD NO:	519	520	521		
LAB NO:	1265	1266	LOST		
DEPTH:	1.2-1.4	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	92%	100%		
20.0	100%	92%	100%		
12.5	100%	77%	100%		
10.0	100%	72%	100%		
5.0	100%	55%	100%		
2.5	100%	41%	100%		
1.25	100%	31%	100%		
0.630	99%	24%	100%		
0.315	96%	17%	100%		
0.160	92%	13%	100%		
0.080	87%	10%	100%		
M.C.(%)	39%	4%	5%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	0	45	0		
% SAND:	13	46	0		
% FINES:	87	10	100		
CLASSIFICATION	SILT (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

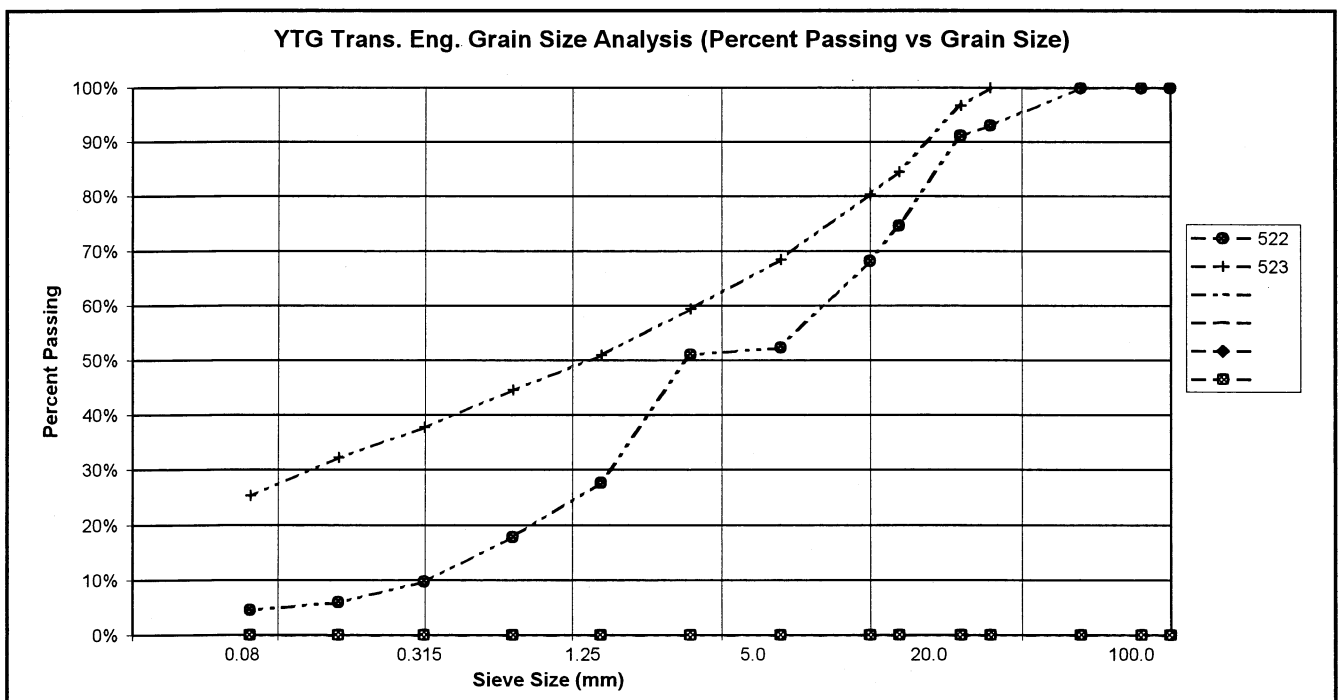


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+920 20M RT
 LOGGED BY: D.T.

HOLE No.: 611-308

DATE COMP: 2001/07/30

FIELD NO:	522	523			
LAB NO:	1268	1269			
DEPTH:	1.2-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	100%			
20.0	91%	97%			
12.5	75%	84%			
10.0	68%	80%			
5.0	52%	68%			
2.5	51%	59%			
1.25	28%	51%			
0.630	18%	45%			
0.315	10%	38%			
0.160	6%	32%			
0.080	5%	25%			
M.C.(%)	3%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	48	32			
% SAND:	48	43			
% FINES:	5	25			
CLASSIFICATION	WELL-GRADED SAND WITH GRAVEL (SW)	SILTY SAND WITH GRAVEL (SM)			

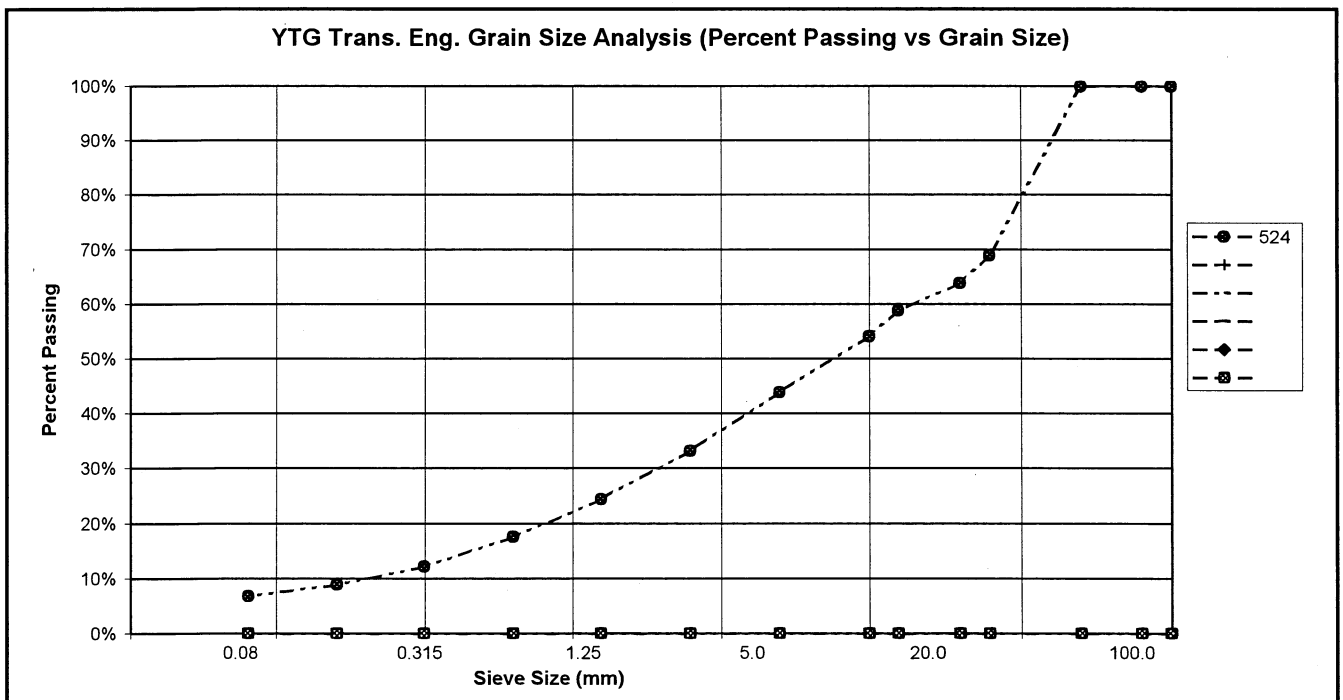


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+975 25M RT
 LOGGED BY: D.T.

HOLE No.: 611-309

DATE COMP: 2001/07/30

FIELD NO:	524				
LAB NO:	1270				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	69%				
20.0	64%				
12.5	59%				
10.0	54%				
5.0	44%				
2.5	33%				
1.25	24%				
0.630	18%				
0.315	12%				
0.160	9%				
0.080	7%				
M.C.(%):	2%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	56				
% SAND:	37				
% FINES:	7				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

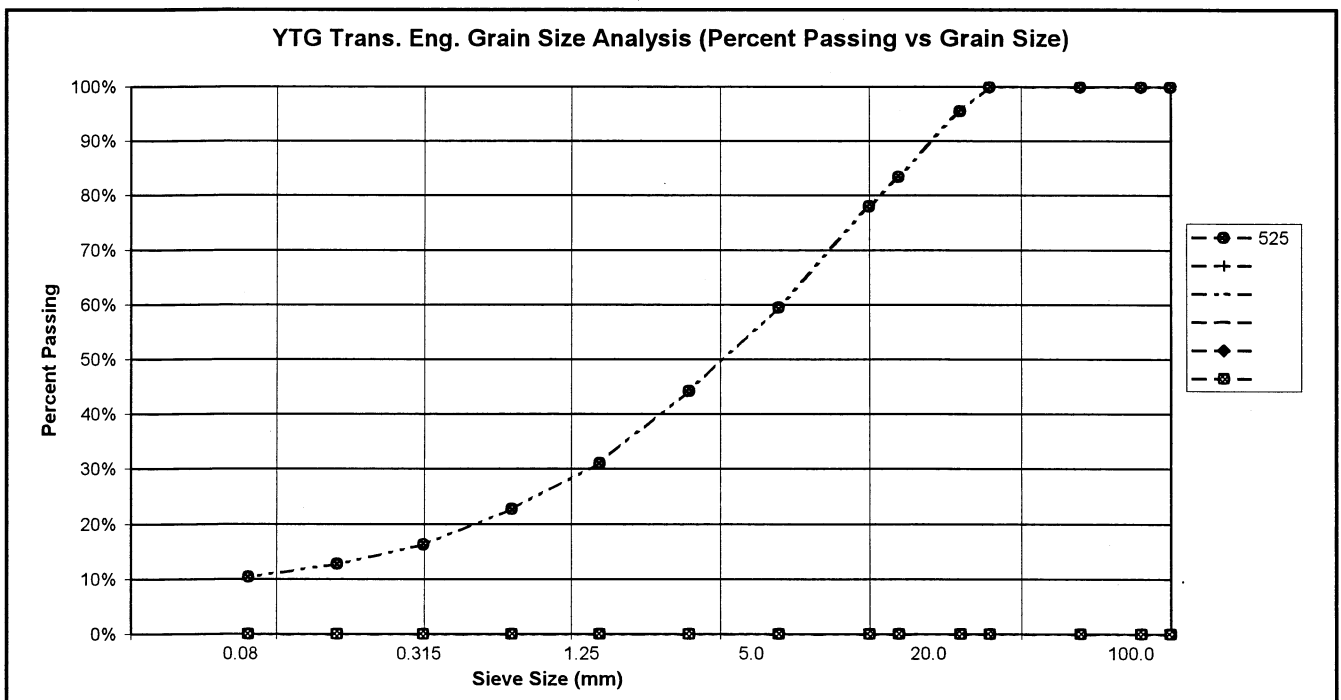


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+997 20M RT
 LOGGED BY: D.T.

HOLE No.: 611-310

DATE COMP: 2001/07/30

FIELD NO:	525				
LAB NO:	1271				
DEPTH:	1.8-2.0				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	100%				
20.0	96%				
12.5	83%				
10.0	78%				
5.0	60%				
2.5	44%				
1.25	31%				
0.630	23%				
0.315	16%				
0.160	13%				
0.080	10%				
M.C.(%):	4%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	40				
% SAND:	49				
% FINES:	10				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				

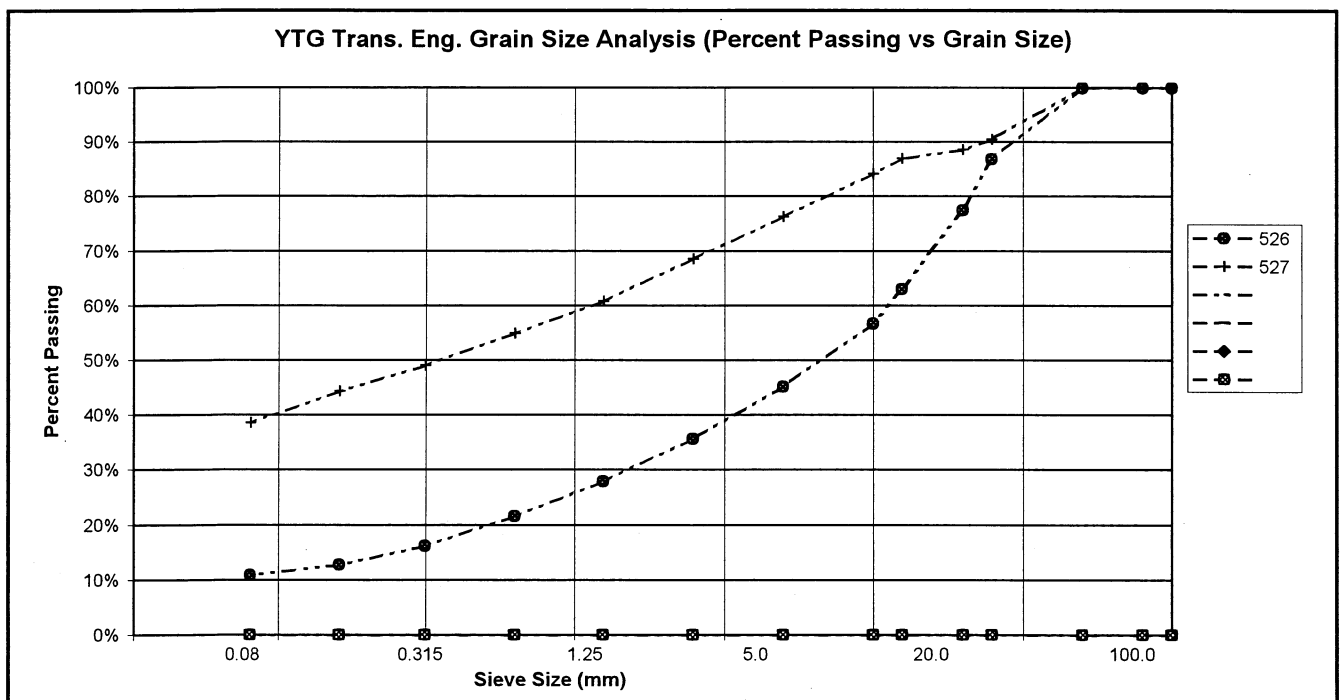


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+026 18M RT
 LOGGED BY: D.T.

HOLE No.: 611-311

DATE COMP: 2001/07/30

FIELD NO:	526	527			
LAB NO:	1272	1273			
DEPTH:	2.6-3.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	87%	90%			
20.0	77%	89%			
12.5	63%	87%			
10.0	57%	84%			
5.0	45%	76%			
2.5	36%	69%			
1.25	28%	61%			
0.630	22%	55%			
0.315	16%	49%			
0.160	13%	44%			
0.080	11%	39%			
M.C.(%):	5%	15%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	55	24			
% SAND:	34	38			
% FINES:	11	39			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)			

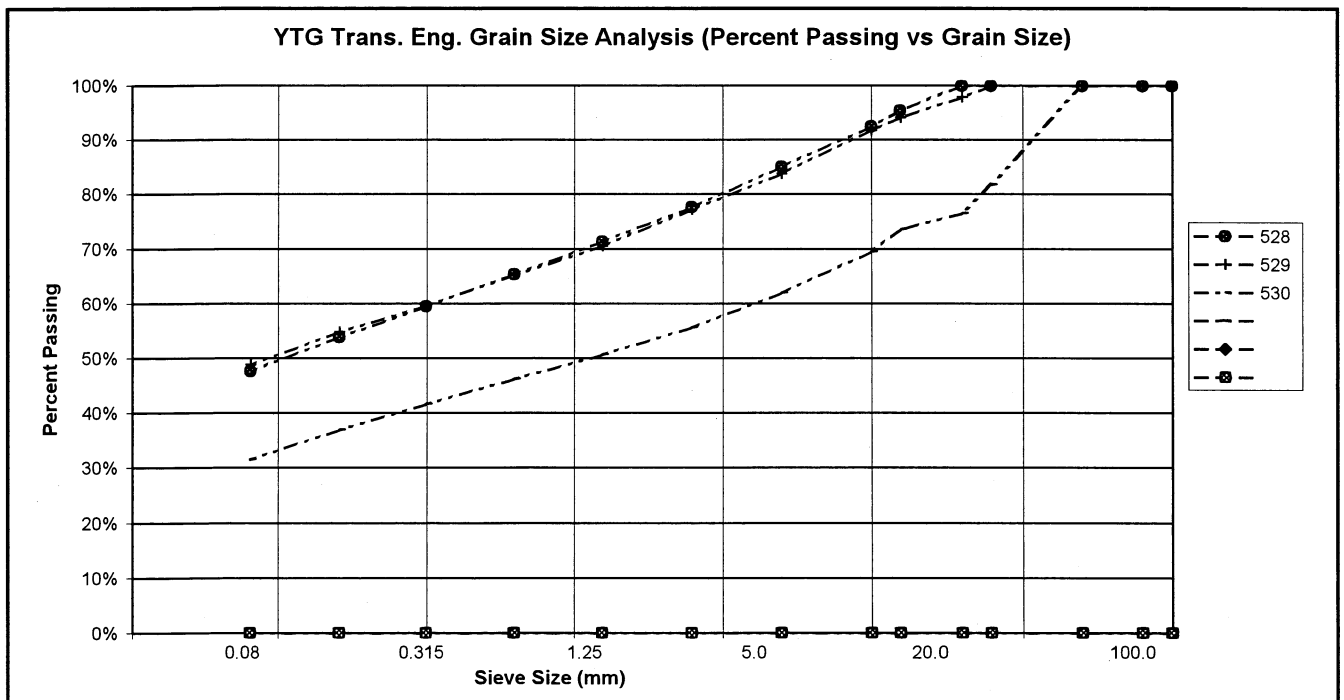


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+200 20M RT
 LOGGED BY: D.T.

HOLE No.: 611-312

DATE COMP: 2001/07/30

FIELD NO:	528	529	530		
LAB NO:	1274	1275	1276		
DEPTH:	1.4-1.6	2.9-3.1	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	82%		
20.0	100%	98%	77%		
12.5	95%	94%	74%		
10.0	92%	92%	70%		
5.0	85%	84%	62%		
2.5	78%	77%	56%		
1.25	71%	71%	51%		
0.630	65%	65%	46%		
0.315	59%	60%	42%		
0.160	54%	55%	37%		
0.080	48%	49%	32%		
M.C.(%):	16%	16%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	15	16	38		
% SAND:	37	35	30		
% FINES:	48	49	32		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

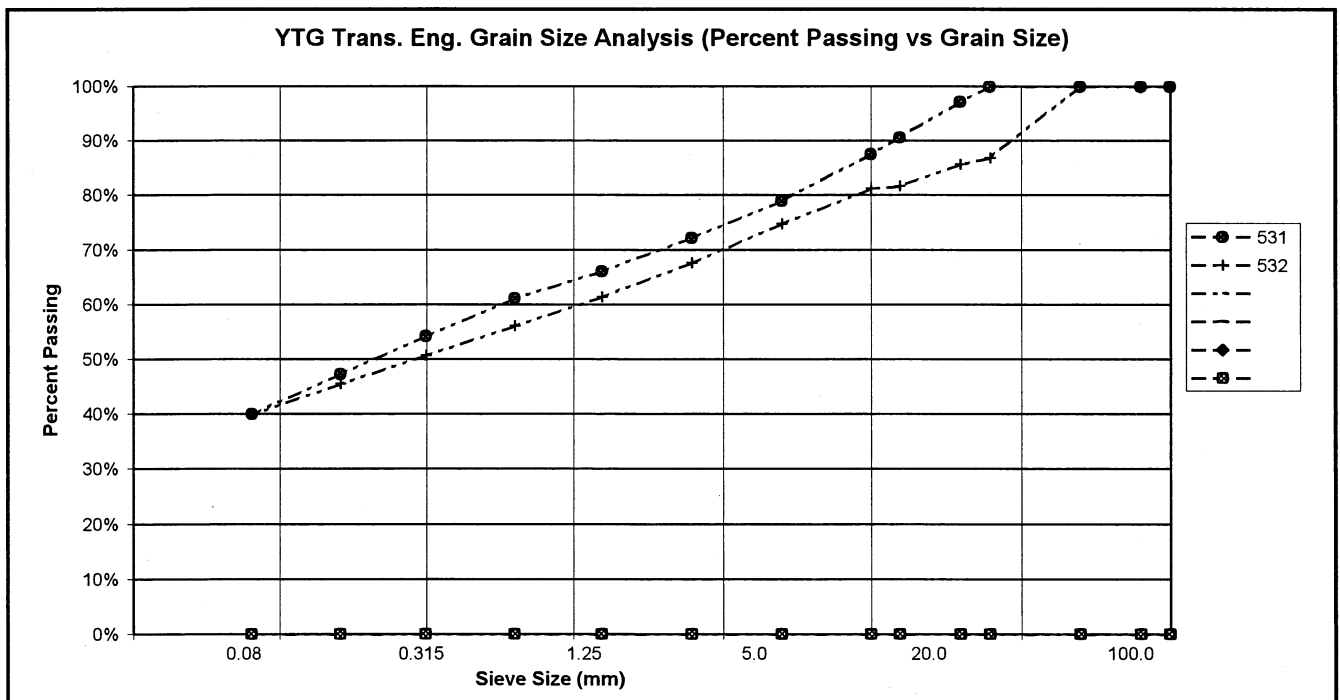


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+400 15M RT
 LOGGED BY: D.T.

HOLE No.: 611-313

DATE COMP: 2001/07/31

FIELD NO:	531	532			
LAB NO:	1277	1278			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	87%			
20.0	97%	86%			
12.5	91%	82%			
10.0	88%	81%			
5.0	79%	75%			
2.5	72%	68%			
1.25	66%	61%			
0.630	61%	56%			
0.315	54%	51%			
0.160	47%	46%			
0.080	40%	40%			
M.C.(%)	13%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	21	25			
% SAND:	39	35			
% FINES:	40	40			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

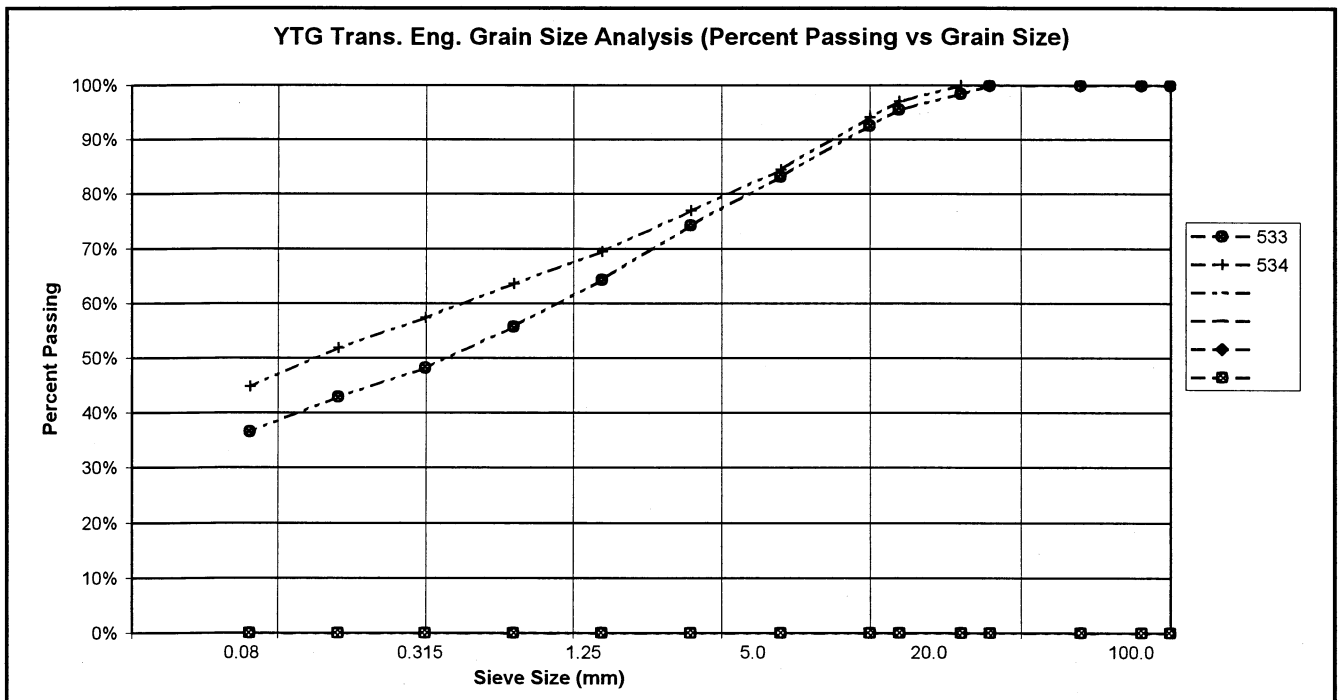


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1742+832 25M RT
 LOGGED BY: D.T.

HOLE No.: 611-314

DATE COMP: 2001/07/31

FIELD NO:	533	534			
LAB NO:	1279	1280			
DEPTH:	1.2-1.4	2.9-3.1			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	99%	100%			
12.5	96%	97%			
10.0	93%	94%			
5.0	83%	85%			
2.5	74%	77%			
1.25	64%	70%			
0.630	56%	64%			
0.315	48%	57%			
0.160	43%	52%			
0.080	37%	45%			
M.C.(%)	8%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	15			
% SAND:	47	40			
% FINES:	37	45			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

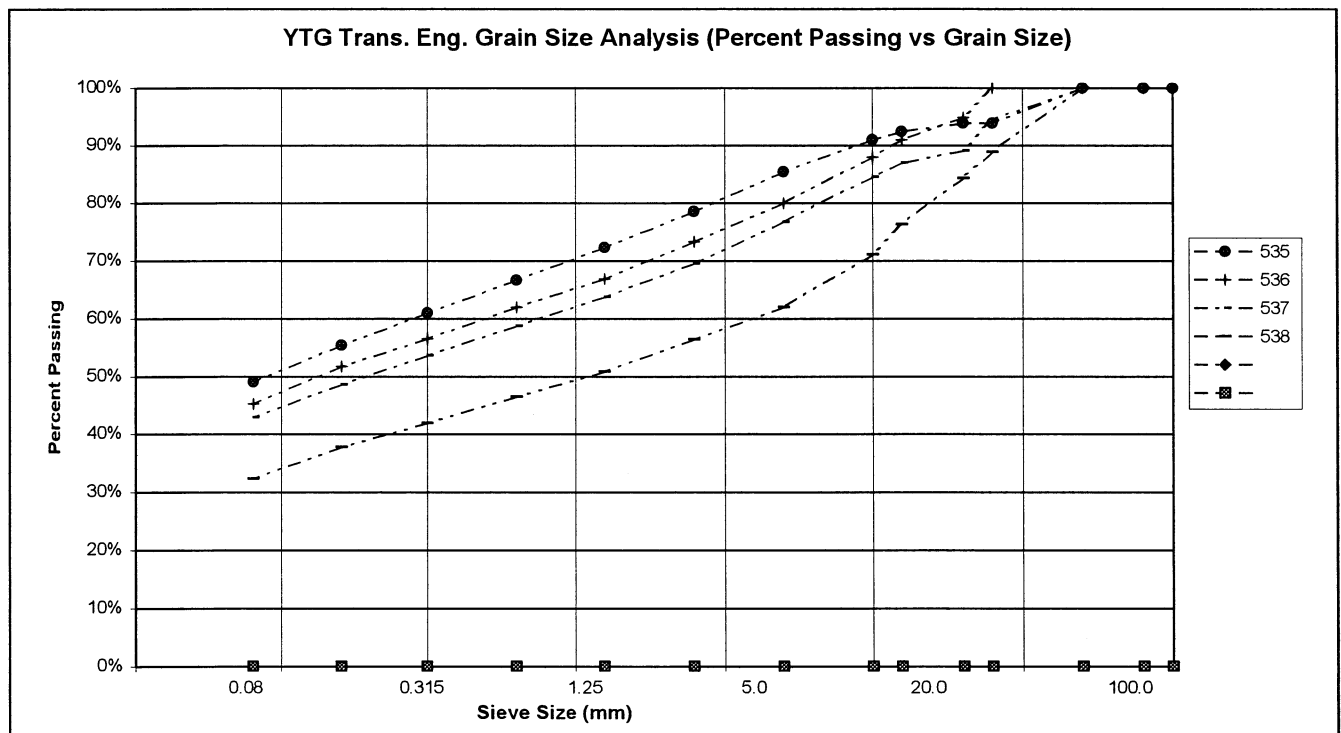


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+150 20M LT
 LOGGED BY: D.T.

HOLE No.: 611-315

DATE COMP: 2001/07/31

FIELD NO:	535	536	537	538		
LAB NO:	1281	1282	1283	1284		
DEPTH:	1.3-1.5	4.2-4.4	5.7-5.9	7.3-7.5		
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%	100%		
80.0	100%	100%	100%	100%		
50.0	100%	100%	100%	100%		
25.0	94%	100%	95%	89%		
20.0	94%	95%	89%	84%		
12.5	92%	91%	87%	76%		
10.0	91%	88%	85%	71%		
5.0	85%	80%	77%	62%		
2.5	79%	73%	69%	56%		
1.25	72%	67%	64%	51%		
0.630	67%	62%	59%	46%		
0.315	61%	57%	54%	42%		
0.160	55%	52%	49%	38%		
0.080	49%	45%	43%	32%		
M.C.(%):	9%	8%	7%	5%		
LIQUID LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0	0.0		
% GRAVEL:	15	20	23	38		
% SAND:	36	35	34	30		
% FINES:	49	45	43	32		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

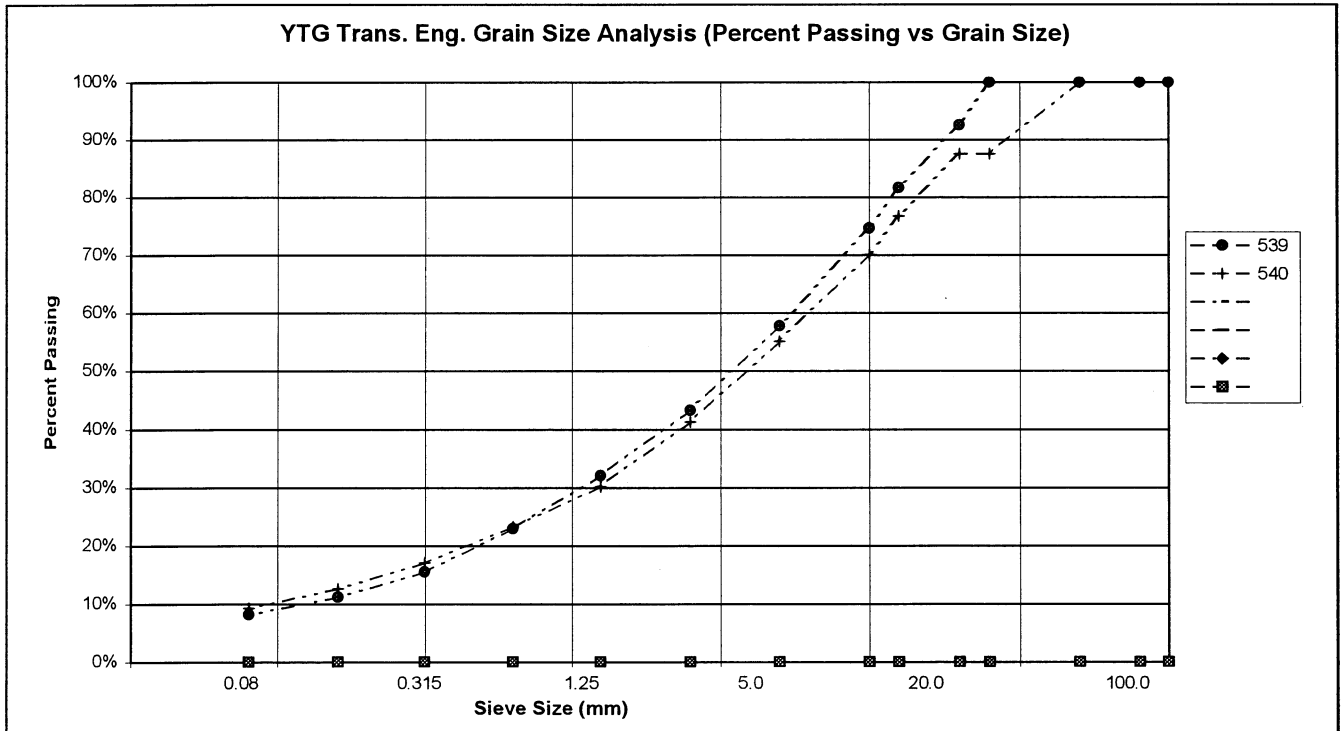


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+070 20m LT
 LOGGED BY: D.T.

HOLE No.: 611-316

DATE COMP: 2001/07/31

FIELD NO:	539	540				
LAB NO:	1285	1286				
DEPTH:	1.3-1.5	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING				
100.0	100%	100%				
80.0	100%	100%				
50.0	100%	100%				
25.0	100%	88%				
20.0	93%	88%				
12.5	82%	77%				
10.0	75%	70%				
5.0	58%	55%				
2.5	43%	41%				
1.25	32%	30%				
0.630	23%	23%				
0.315	16%	17%				
0.160	11%	13%				
0.080	8%	9%				
M.C.(%):	3%	3%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX.:	0.0	0.0				
% GRAVEL:	42	45				
% SAND:	50	46				
% FINES:	8	9				
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)				

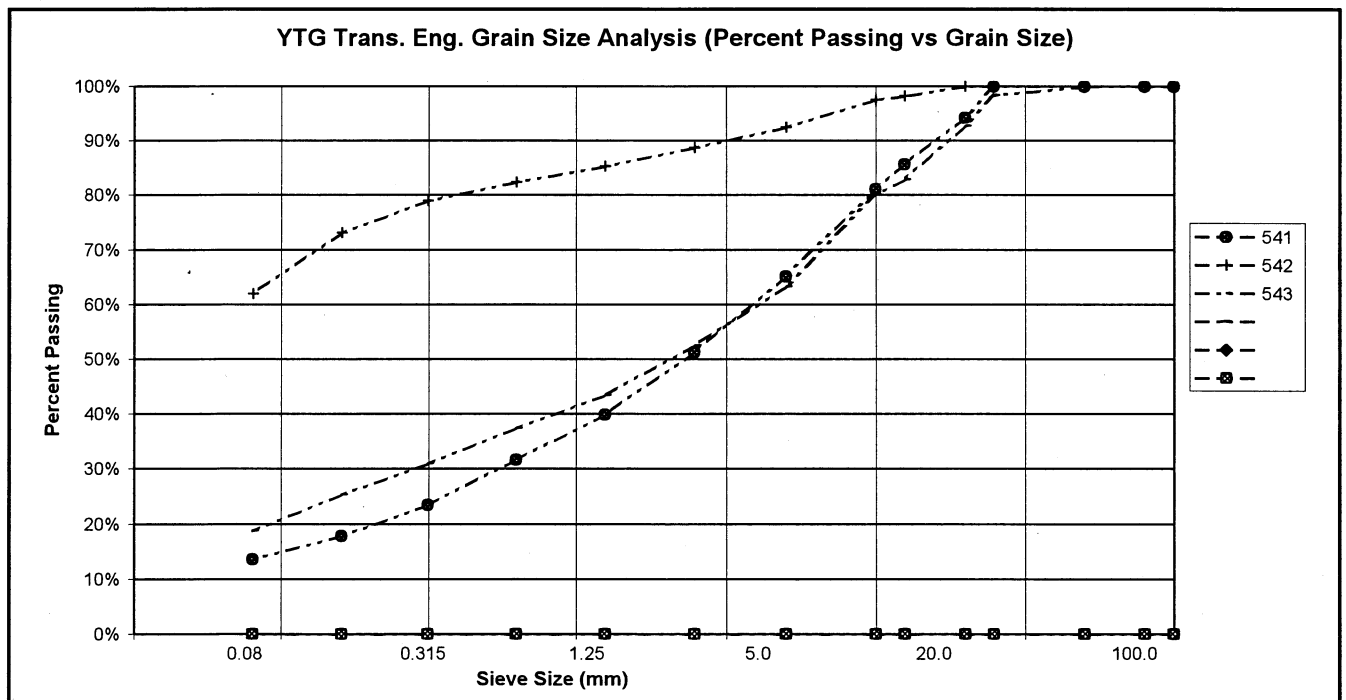


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+975 17M LT
 LOGGED BY: D.T.

HOLE No.: 611-317

DATE COMP: 2001/07/31

FIELD NO:	541	542	543		
LAB NO:	1287	1288	1289		
DEPTH:	1.2-1.4	2.6-2.8	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	98%		
20.0	94%	100%	93%		
12.5	86%	98%	83%		
10.0	81%	98%	80%		
5.0	65%	93%	63%		
2.5	51%	89%	52%		
1.25	40%	85%	43%		
0.630	32%	82%	37%		
0.315	23%	79%	31%		
0.160	18%	73%	25%		
0.080	14%	62%	19%		
M.C.(%)	6%	20%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	35	7	37		
% SAND:	52	31	45		
% FINES:	14	62	19		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)		

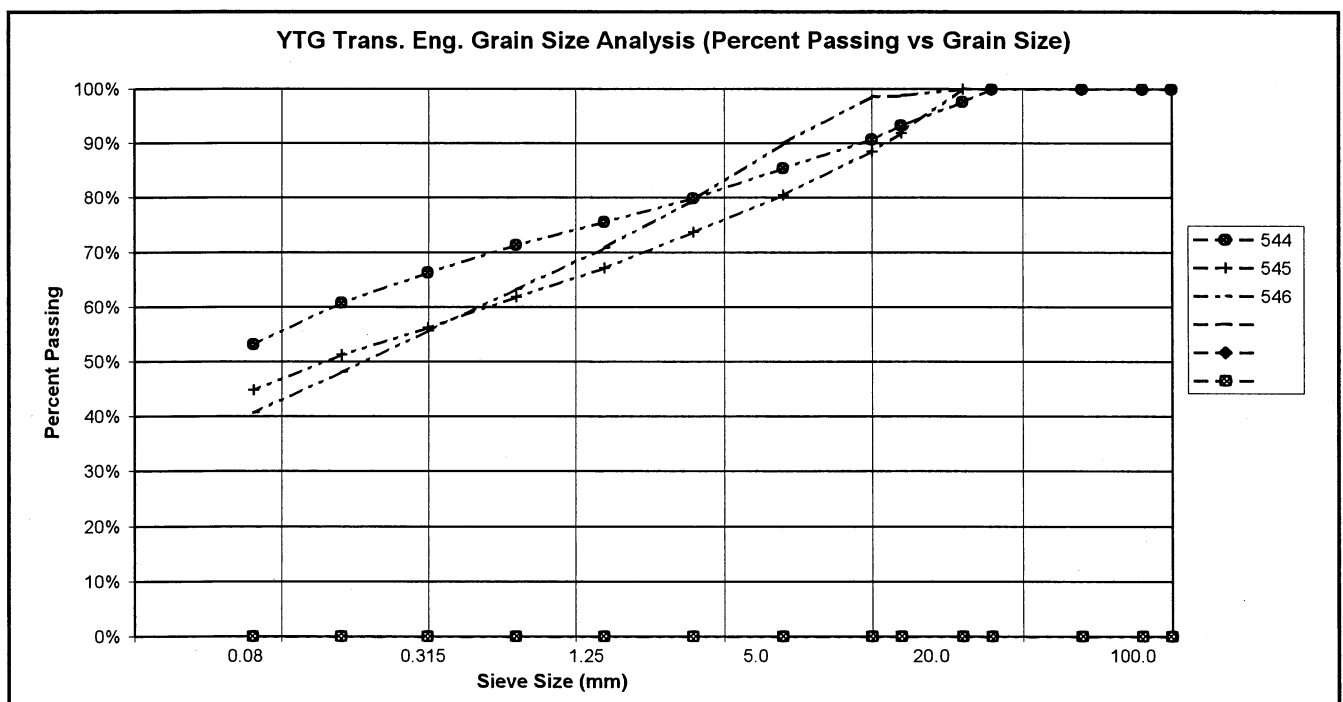


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+850 17M LT
 LOGGED BY: D.T.

HOLE No.: 611-318

DATE COMP: 2001/07/31

FIELD NO:	544	545	546		
LAB NO:	1290	1291	1292		
DEPTH:	1.1-1.3	2.9-3.1	5.6-6.0		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	98%	100%	100%		
12.5	93%	92%	99%		
10.0	91%	89%	99%		
5.0	86%	81%	90%		
2.5	80%	74%	80%		
1.25	76%	67%	71%		
0.630	71%	62%	63%		
0.315	66%	56%	56%		
0.160	61%	51%	48%		
0.080	53%	45%	41%		
M.C.(%)	7%	10%	6%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	15	19	10		
% SAND:	32	36	49		
% FINES:	53	45	41		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND (SM)		

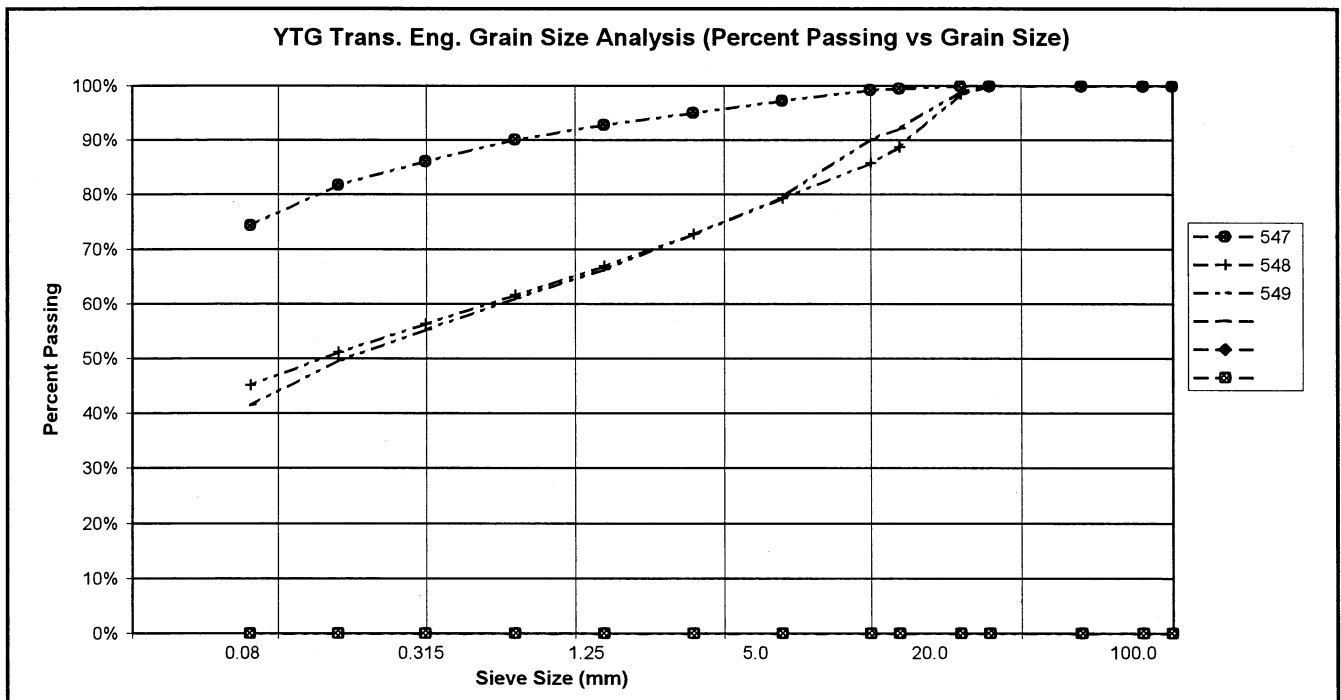


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+750 13M LT
 LOGGED BY: D.T.

HOLE No.: 611-319

DATE COMP: 2001/07/31

FIELD NO:	547	548	549		
LAB NO:	1293	1294	1295		
DEPTH:	0.8-1.0	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	100%	98%	99%		
12.5	100%	89%	92%		
10.0	99%	86%	90%		
5.0	97%	79%	80%		
2.5	95%	73%	73%		
1.25	93%	67%	66%		
0.630	90%	62%	61%		
0.315	86%	56%	55%		
0.160	82%	51%	50%		
0.080	74%	45%	42%		
M.C.(%)	17%	8%	6%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	3	21	20		
% SAND:	23	34	38		
% FINES:	74	45	42		
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

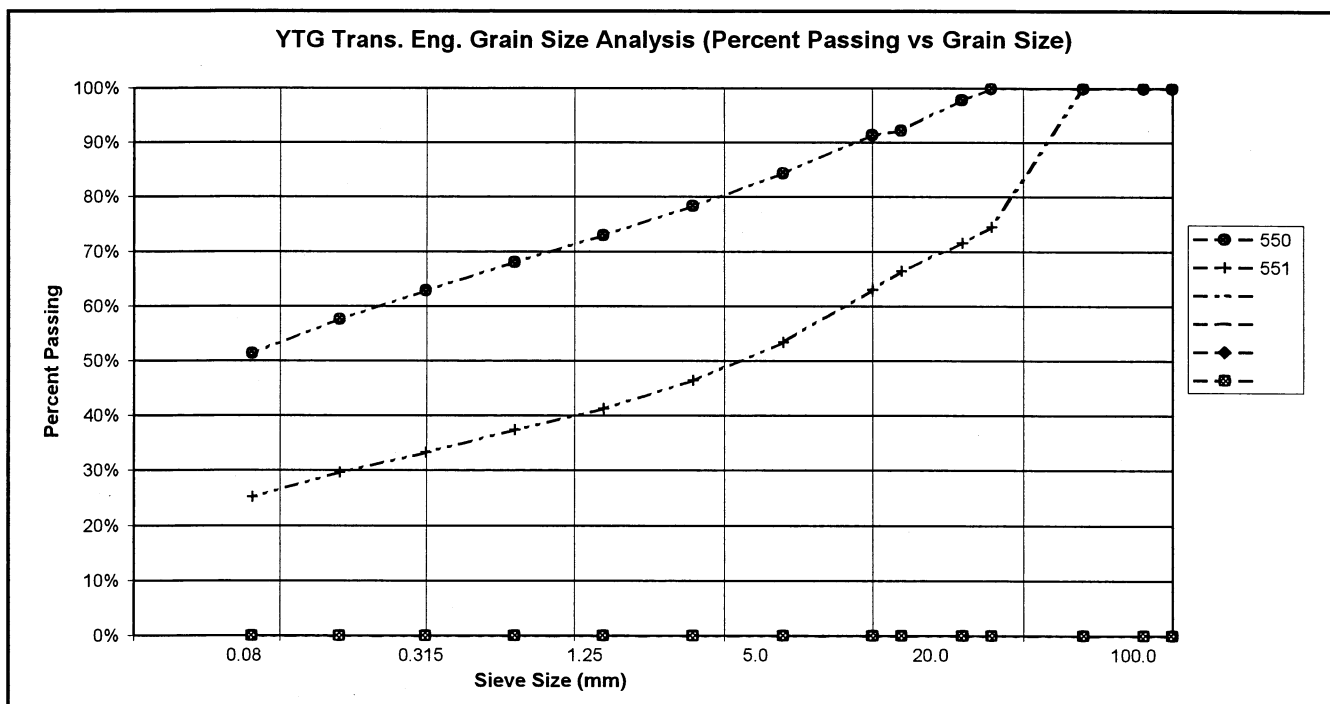


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+550 17M LT
 LOGGED BY: D.T.

HOLE No.: 611-320

DATE COMP: 2001/08/01

FIELD NO:	550	551			
LAB NO:	1296	1297			
DEPTH:	1.4-1.6	3.4-3.6			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	75%			
20.0	98%	72%			
12.5	92%	66%			
10.0	91%	63%			
5.0	84%	53%			
2.5	78%	47%			
1.25	73%	41%			
0.630	68%	37%			
0.315	63%	33%			
0.160	58%	30%			
0.080	51%	25%			
M.C.(%):	12%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	16	47			
% SAND:	33	28			
% FINES:	51	25			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY GRAVEL WITH SAND (GM)			

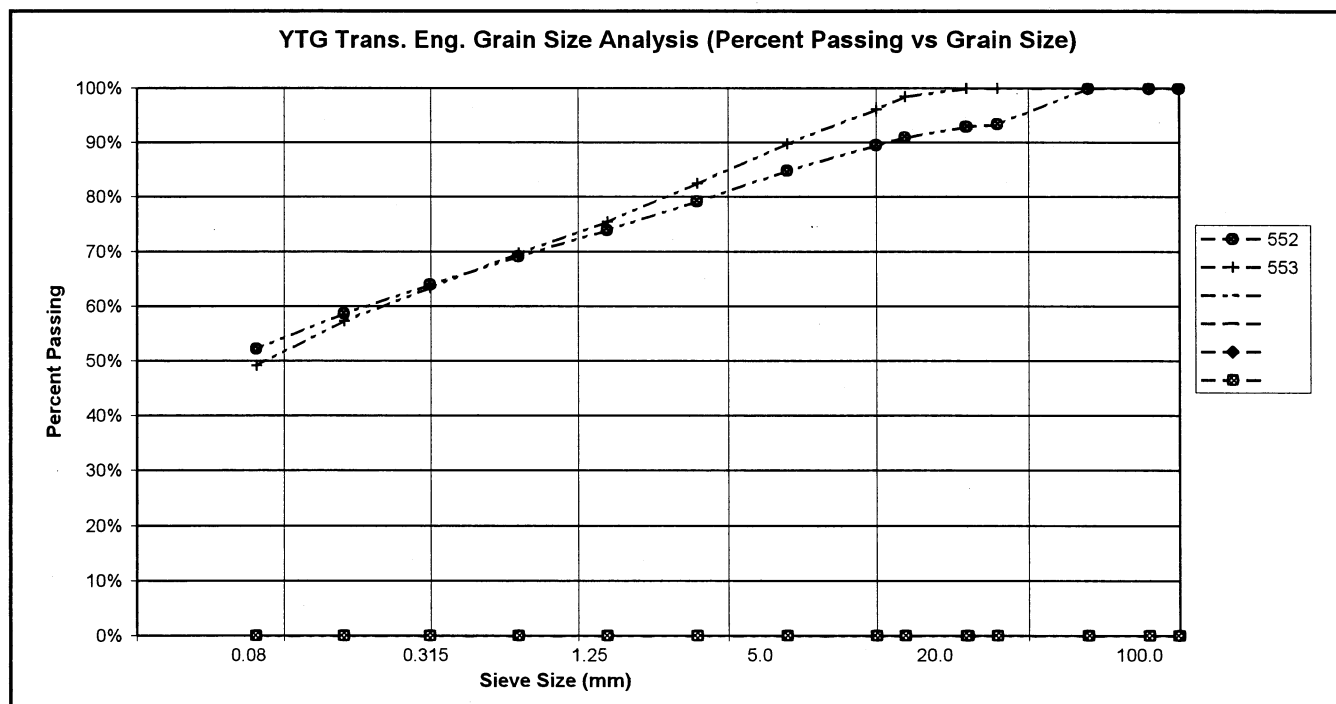


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+425 25M LT
 LOGGED BY: D.T.

HOLE No.: 611-321

DATE COMP: 2001/08/01

FIELD NO:	552	553			
LAB NO:	1298	1299			
DEPTH:	1.4-1.6	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	100%			
20.0	93%	100%			
12.5	91%	98%			
10.0	90%	96%			
5.0	85%	90%			
2.5	79%	83%			
1.25	74%	75%			
0.630	69%	70%			
0.315	64%	63%			
0.160	59%	57%			
0.080	52%	49%			
M.C.(%)	15%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	15	10			
% SAND:	33	41			
% FINES:	52	49			
CLASSIFICATION	SANDY SILT WITH GRAVEL (ML)	SILTY SAND (SM)			

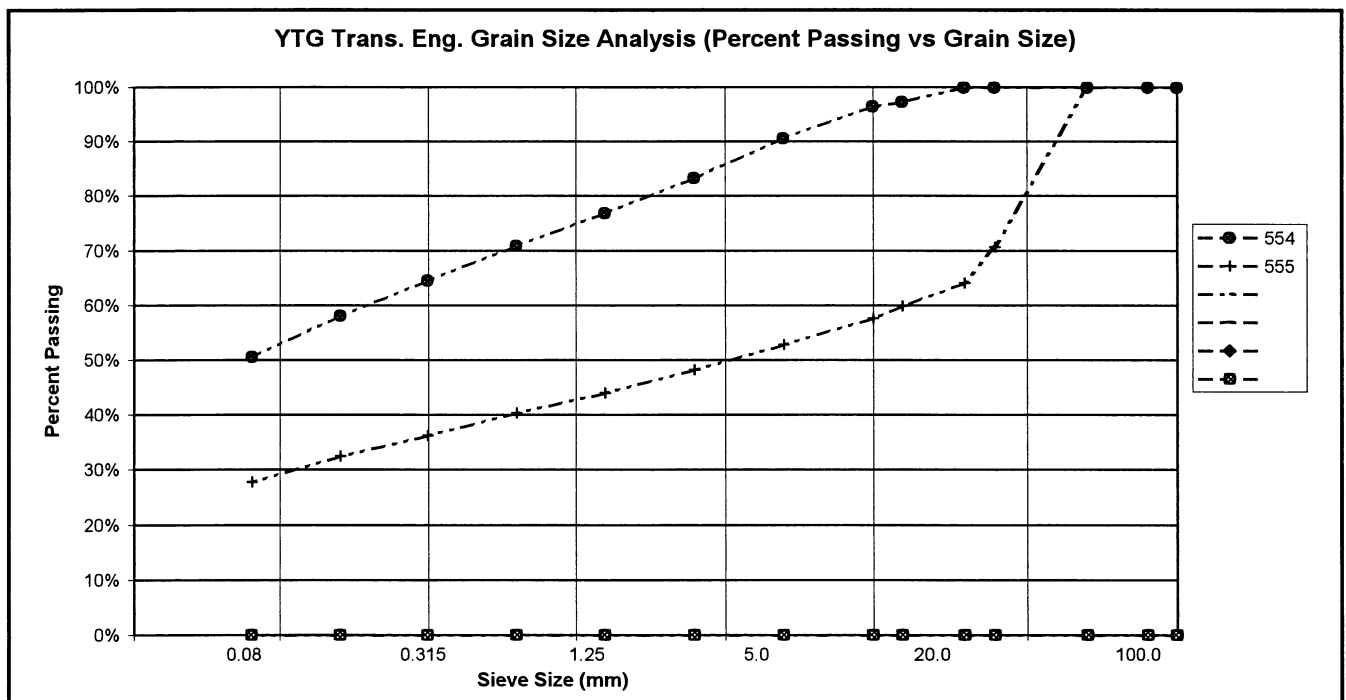


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+264 9M LT
 LOGGED BY: D.T.

HOLE No.: 611-322

DATE COMP: 2001/08/01

FIELD NO:	554	555			
LAB NO:	1300	1301			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	71%			
20.0	100%	64%			
12.5	97%	60%			
10.0	96%	58%			
5.0	91%	53%			
2.5	83%	48%			
1.25	77%	44%			
0.630	71%	40%			
0.315	65%	36%			
0.160	58%	33%			
0.080	51%	28%			
M.C.(%):	11%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	9	47			
% SAND:	40	25			
% FINES:	51	28			
CLASSIFICATION	SANDY SILT (ML)	SILTY GRAVEL WITH SAND (GM)			

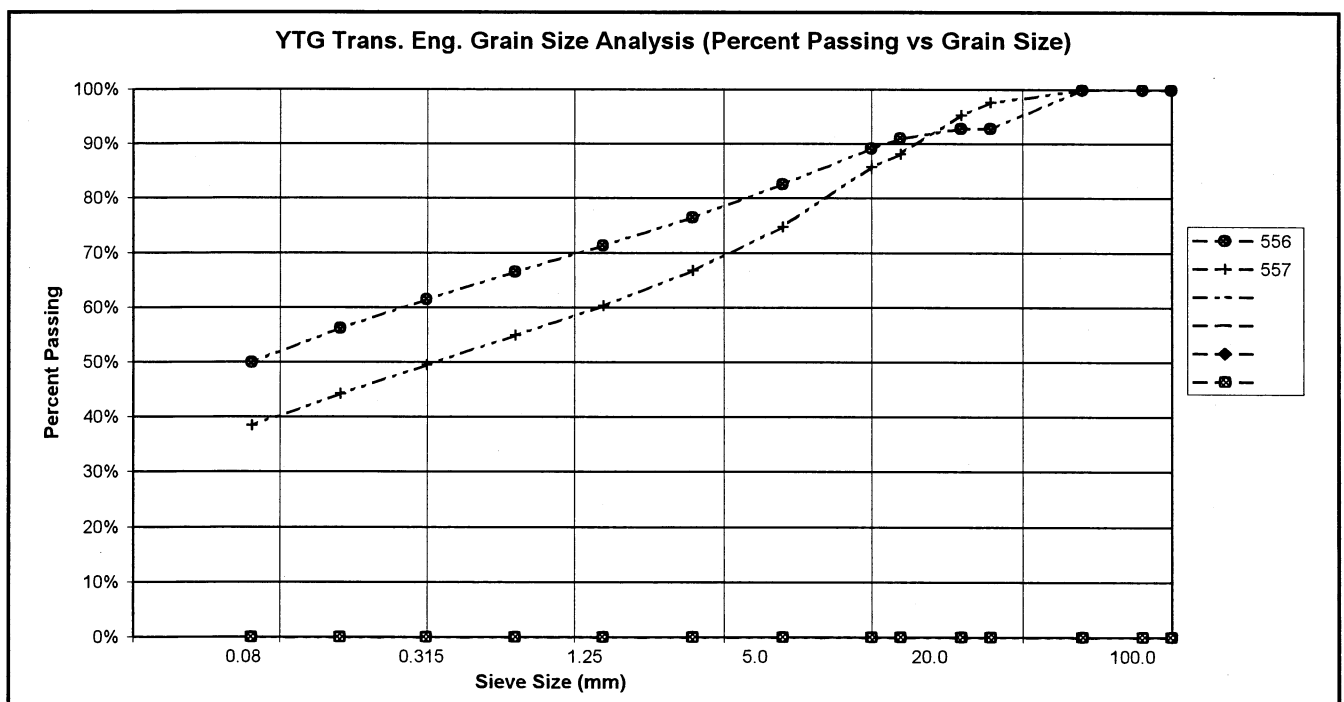


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+264 19M LT
 LOGGED BY: D.T.

HOLE No.: 611-323

DATE COMP: 2001/08/01

FIELD NO:	556	557			
LAB NO:	1302	1303			
DEPTH:	1.0-1.2	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	98%			
20.0	93%	95%			
12.5	91%	88%			
10.0	89%	86%			
5.0	83%	75%			
2.5	77%	67%			
1.25	71%	60%			
0.630	67%	55%			
0.315	61%	50%			
0.160	56%	44%			
0.080	50%	39%			
M.C.(%):	10%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	17	25			
% SAND:	33	36			
% FINES:	50	39			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

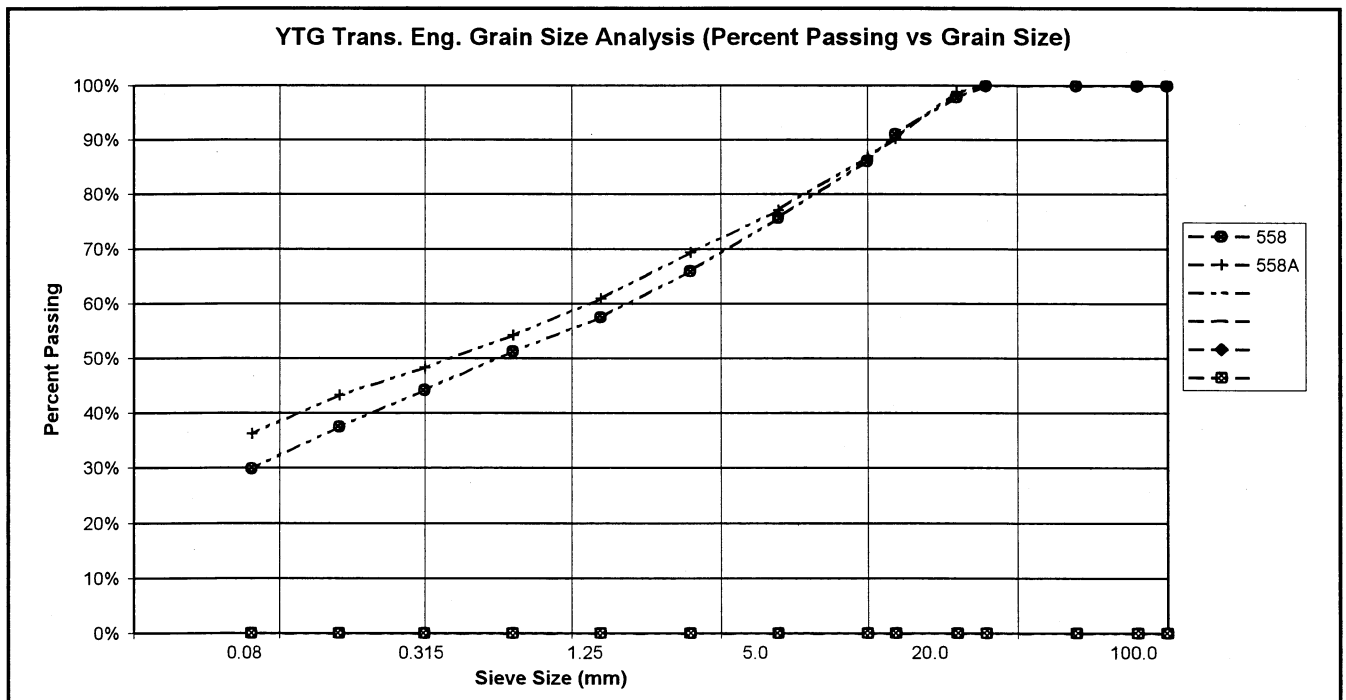


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+125 17M LT
 LOGGED BY: D.T.

HOLE No.: 611-324

DATE COMP: 2001/08/01

FIELD NO:	558	558A			
LAB NO:	1304	1305			
DEPTH:	0.9-1.1	3.8-4.0			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	98%	99%			
12.5	91%	90%			
10.0	86%	87%			
5.0	76%	77%			
2.5	66%	69%			
1.25	58%	61%			
0.630	51%	54%			
0.315	44%	48%			
0.160	38%	43%			
0.080	30%	36%			
M.C.(%):	8%	13%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	24	23			
% SAND:	46	41			
% FINES:	30	36			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)			

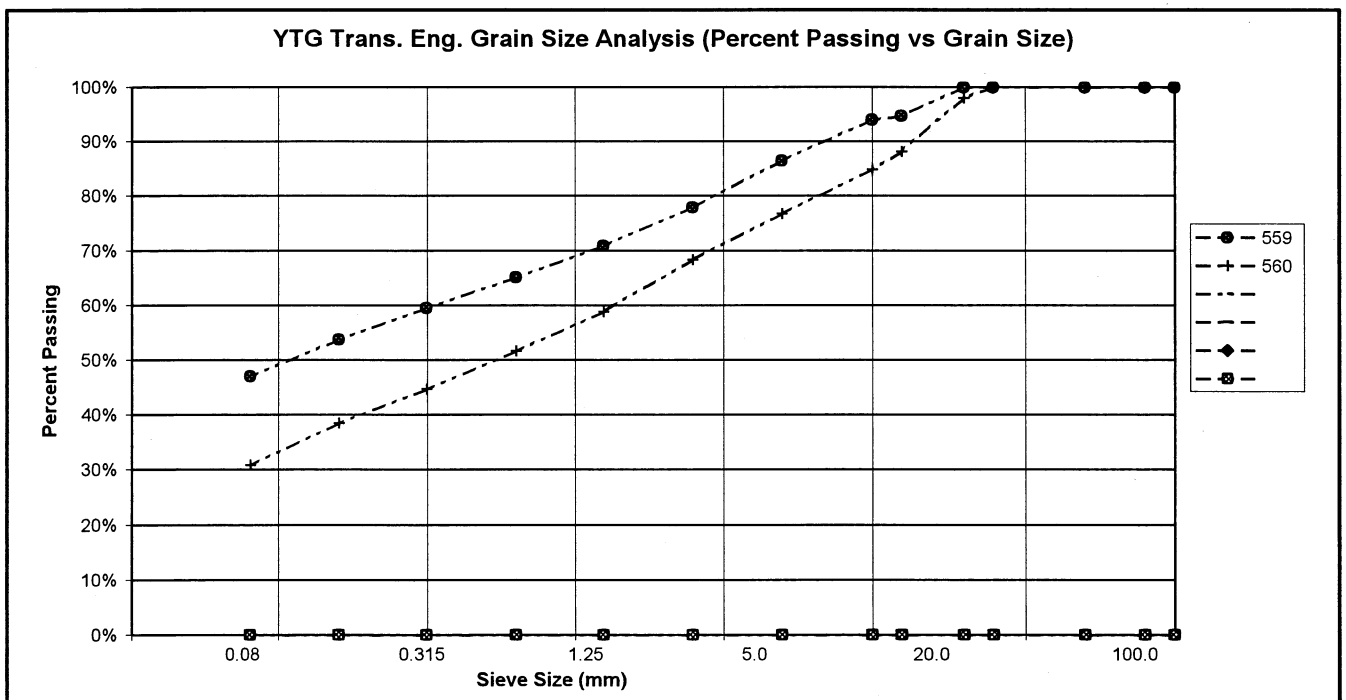


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+000 20M LT
 LOGGED BY: D.T.

HOLE No.: 611-325

DATE COMP: 2001/08/01

FIELD NO:	559	560			
LAB NO:	1306	1307			
DEPTH:	1.9-2.1	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	100%	98%			
12.5	95%	88%			
10.0	94%	85%			
5.0	87%	77%			
2.5	78%	68%			
1.25	71%	59%			
0.630	65%	52%			
0.315	59%	45%			
0.160	54%	38%			
0.080	47%	31%			
M.C.(%)	20%	8%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	13	23			
% SAND:	40	46			
% FINES:	47	31			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)			

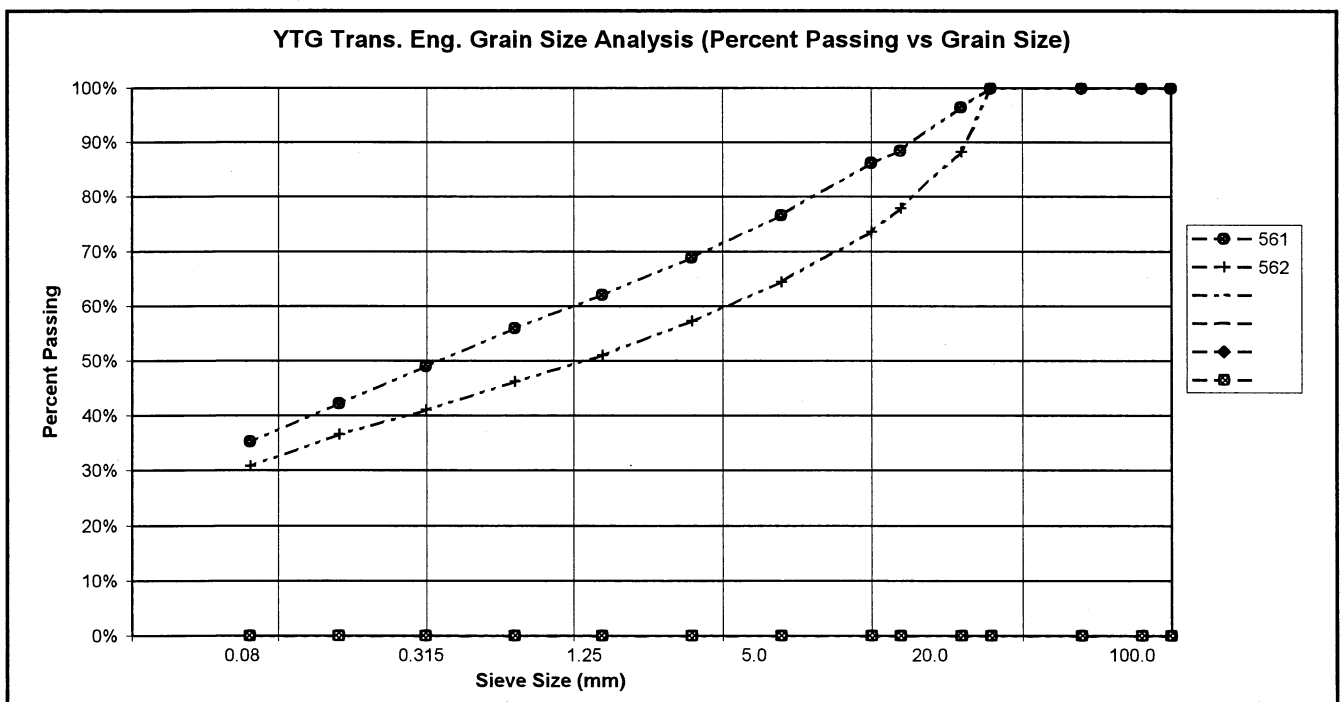


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+000 9M LT
 LOGGED BY: D.T.

HOLE No.: 611-326

DATE COMP: 2001/08/01

FIELD NO:	561	562			
LAB NO:	1308	1309			
DEPTH:	2.0-2.2	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	100%			
20.0	97%	88%			
12.5	89%	78%			
10.0	86%	74%			
5.0	77%	64%			
2.5	69%	57%			
1.25	62%	51%			
0.630	56%	46%			
0.315	49%	41%			
0.160	42%	37%			
0.080	35%	31%			
M.C.(%)	8%	7%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	23	36			
% SAND:	41	34			
% FINES:	35	31			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			

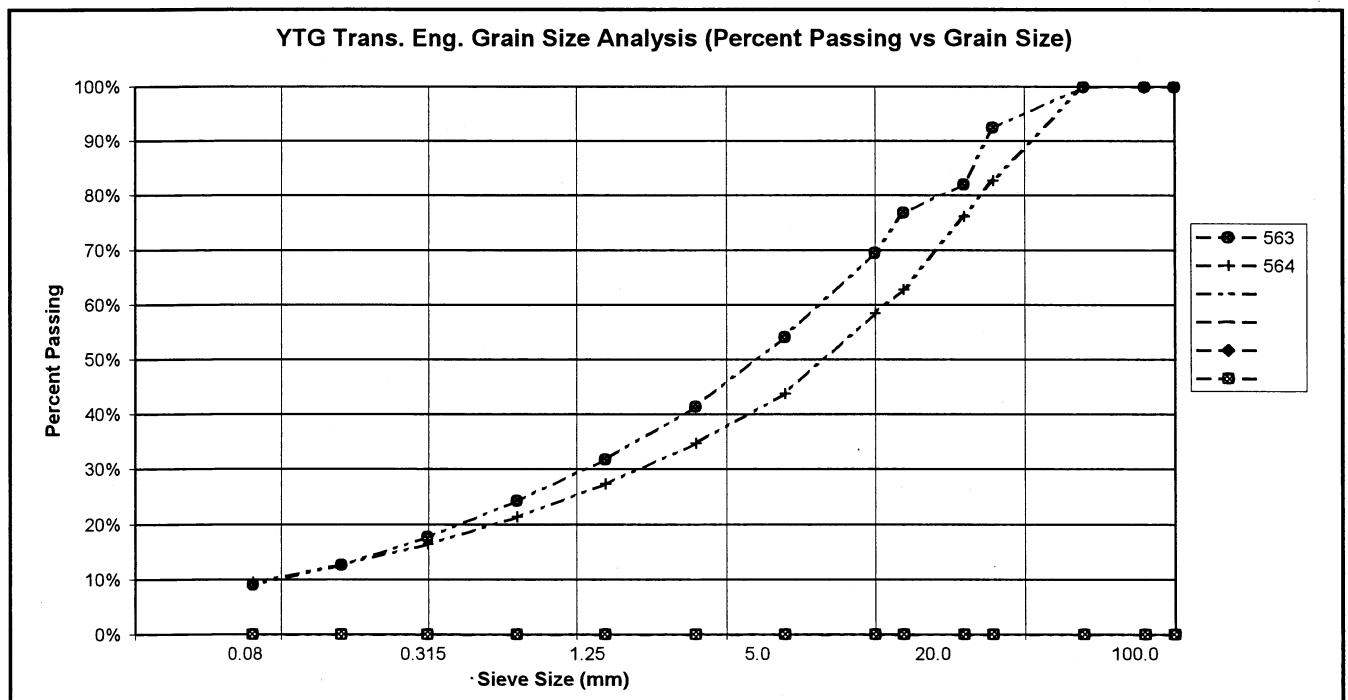


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+820 9M LT
 LOGGED BY: D.T.

HOLE No.: 611-327

DATE COMP: 2001/08/02

FIELD NO:	563	564			
LAB NO:	1310	1311			
DEPTH:	1.2-1.4	4.2-4.4			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	93%	83%			
20.0	82%	76%			
12.5	77%	63%			
10.0	69%	58%			
5.0	54%	44%			
2.5	41%	35%			
1.25	32%	27%			
0.630	24%	21%			
0.315	18%	16%			
0.160	13%	13%			
0.080	9%	9%			
M.C.(%):	3%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	46	56			
% SAND:	45	34			
% FINES:	9	9			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

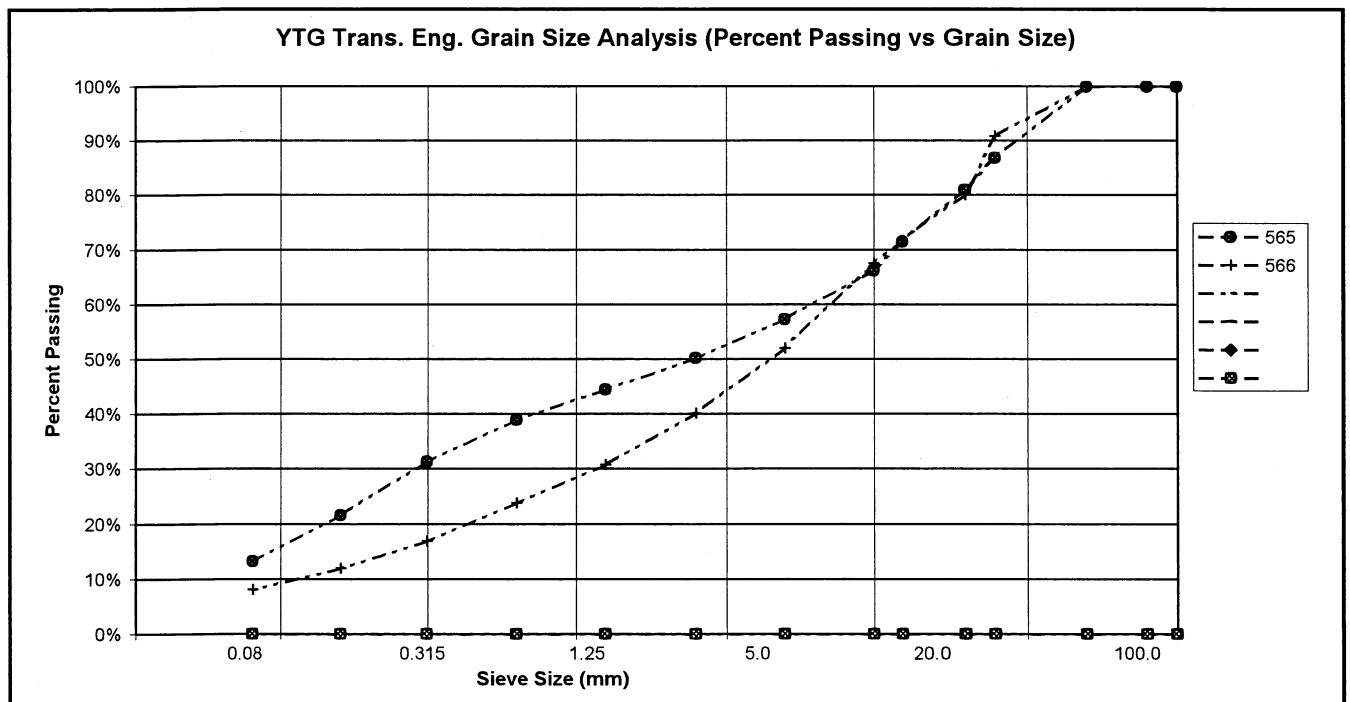


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+820 20M LT
 LOGGED BY: D.T.

HOLE No.: 611-328

DATE COMP: 2001/08/02

FIELD NO:	565	566			
LAB NO:	1312	1313			
DEPTH:	1.4-1.6	4.2-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	87%	91%			
20.0	81%	80%			
12.5	71%	72%			
10.0	66%	67%			
5.0	57%	52%			
2.5	50%	40%			
1.25	44%	31%			
0.630	39%	24%			
0.315	31%	17%			
0.160	22%	12%			
0.080	13%	8%			
M.C.(%):	3%	3%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	43	48			
% SAND:	44	44			
% FINES:	13	8			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

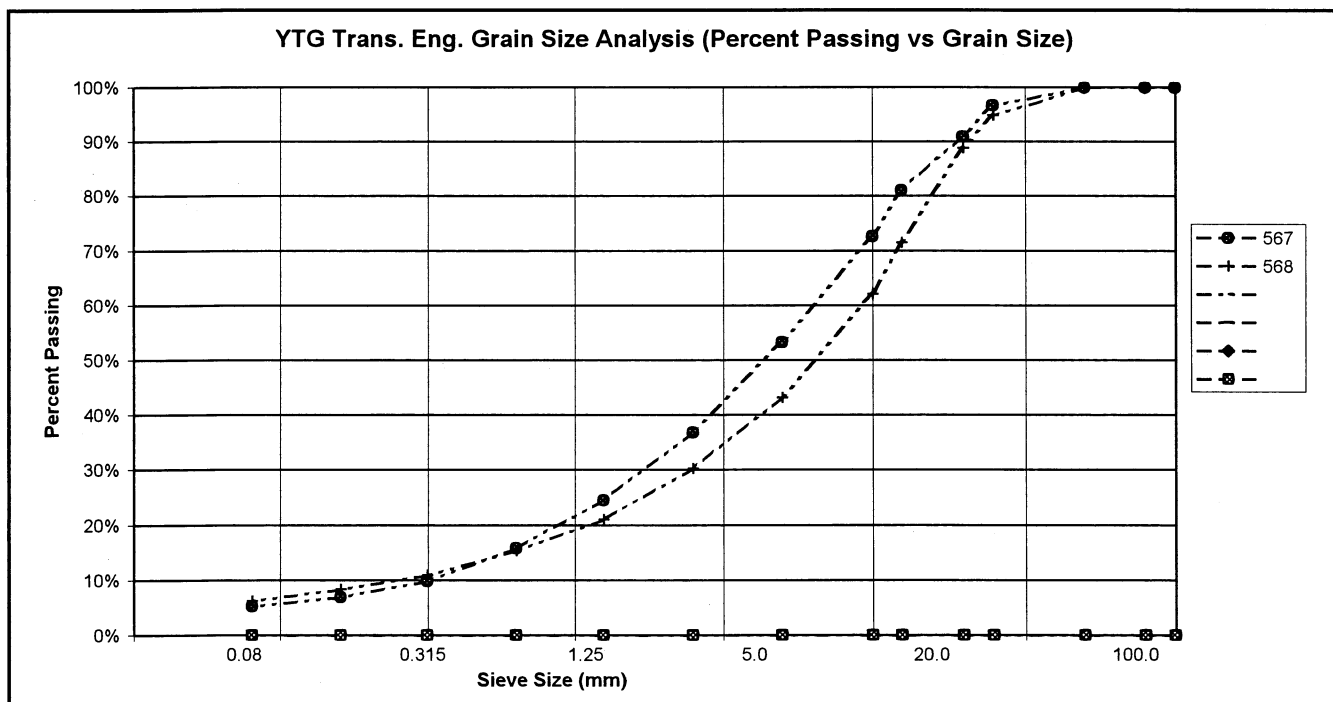


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+700 8M LT
 LOGGED BY: D.T.

HOLE No.: 611-329

DATE COMP: 2001/08/02

FIELD NO:	567	568			
LAB NO:	1314	1315			
DEPTH:	1.2-1.4	4.2-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	97%	95%			
20.0	91%	89%			
12.5	81%	71%			
10.0	73%	62%			
5.0	53%	43%			
2.5	37%	30%			
1.25	25%	21%			
0.630	16%	15%			
0.315	10%	11%			
0.160	7%	8%			
0.080	5%	6%			
M.C.(%):	1%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	47	57			
% SAND:	48	37			
% FINES:	5	6			
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

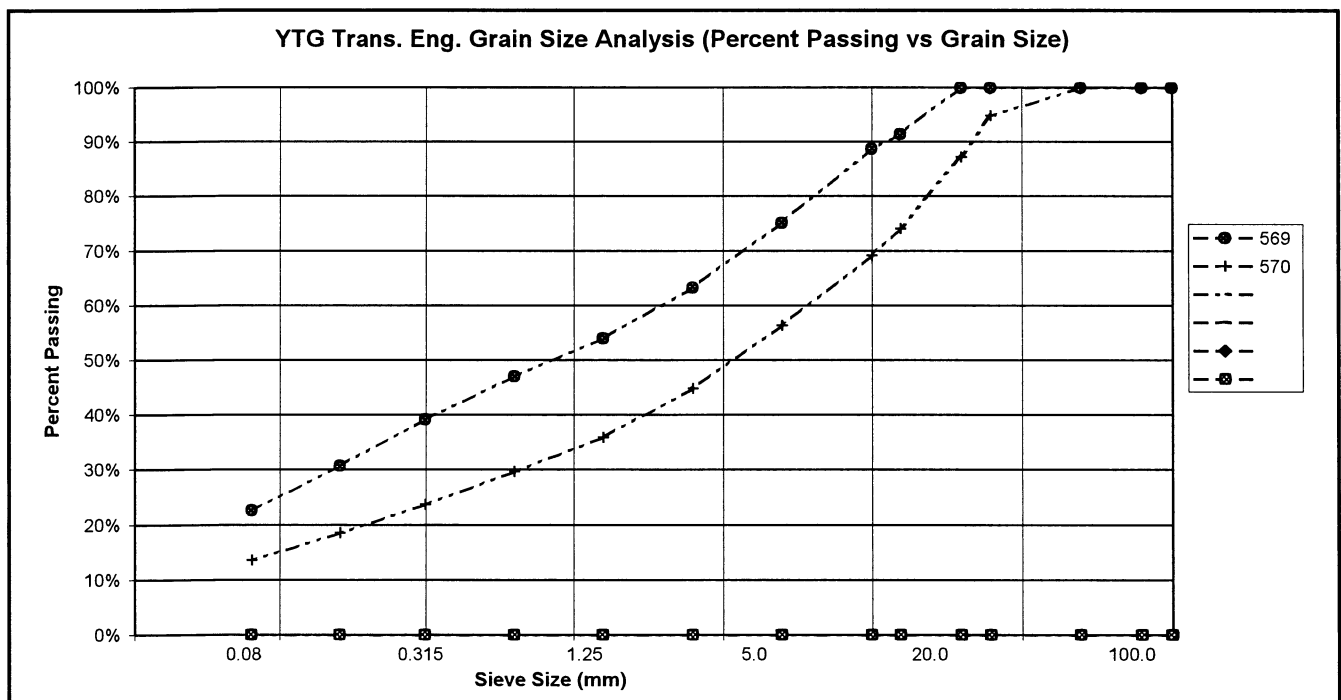


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+559 9M LT
 LOGGED BY: D.T.

HOLE No.: 611-330

DATE COMP: 2001/08/02

FIELD NO:	569	570			
LAB NO:	1316	1317			
DEPTH:	1.0-1.2	4.2-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	100%	87%			
12.5	91%	74%			
10.0	89%	69%			
5.0	75%	56%			
2.5	63%	45%			
1.25	54%	36%			
0.630	47%	30%			
0.315	39%	24%			
0.160	31%	18%			
0.080	23%	14%			
M.C.(%)	8%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	25	44			
% SAND:	53	43			
% FINES:	23	14			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)			

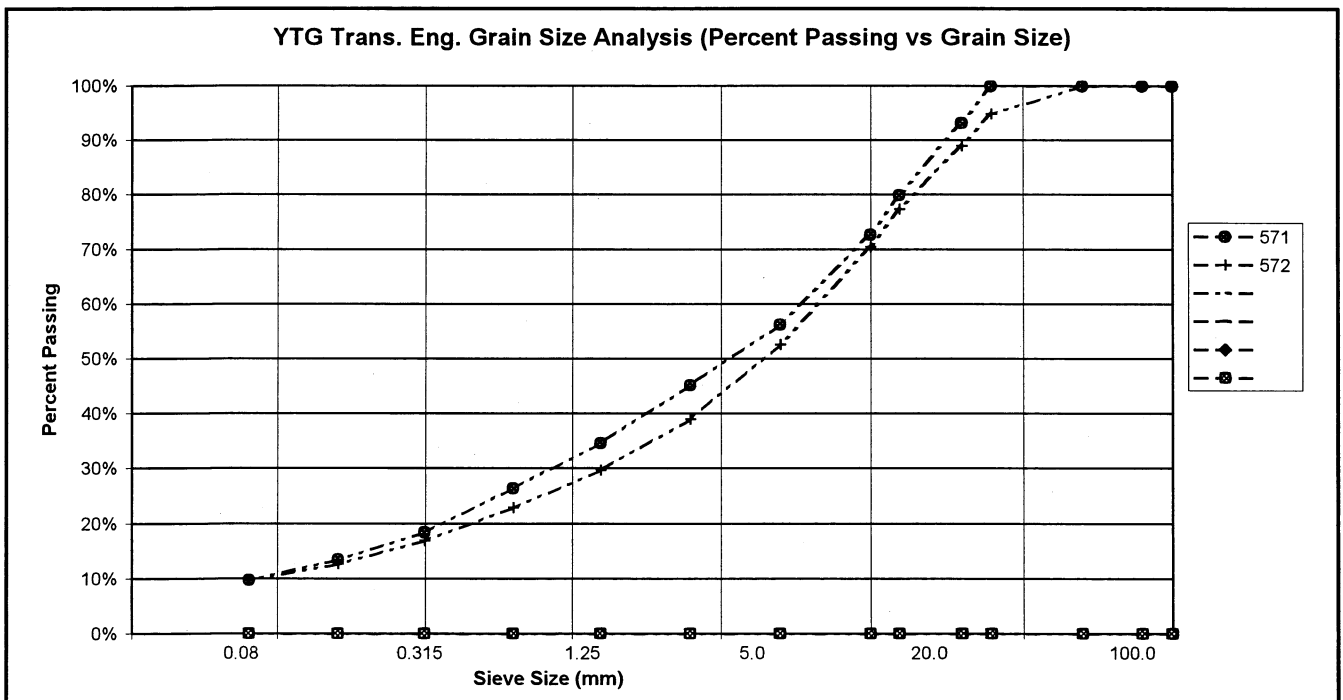


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+559 20M LT
 LOGGED BY: D.T.

HOLE No.: 611-331

DATE COMP: 2001/08/02

FIELD NO:	571	572			
LAB NO:	1318	1319			
DEPTH:	1.3-1.5	4.2-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	93%	89%			
12.5	80%	77%			
10.0	73%	70%			
5.0	56%	53%			
2.5	45%	39%			
1.25	35%	30%			
0.630	26%	23%			
0.315	18%	17%			
0.160	13%	13%			
0.080	10%	10%			
M.C.(%):	4%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	44	47			
% SAND:	47	43			
% FINES:	10	10			
CLASSIFICATION	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)			

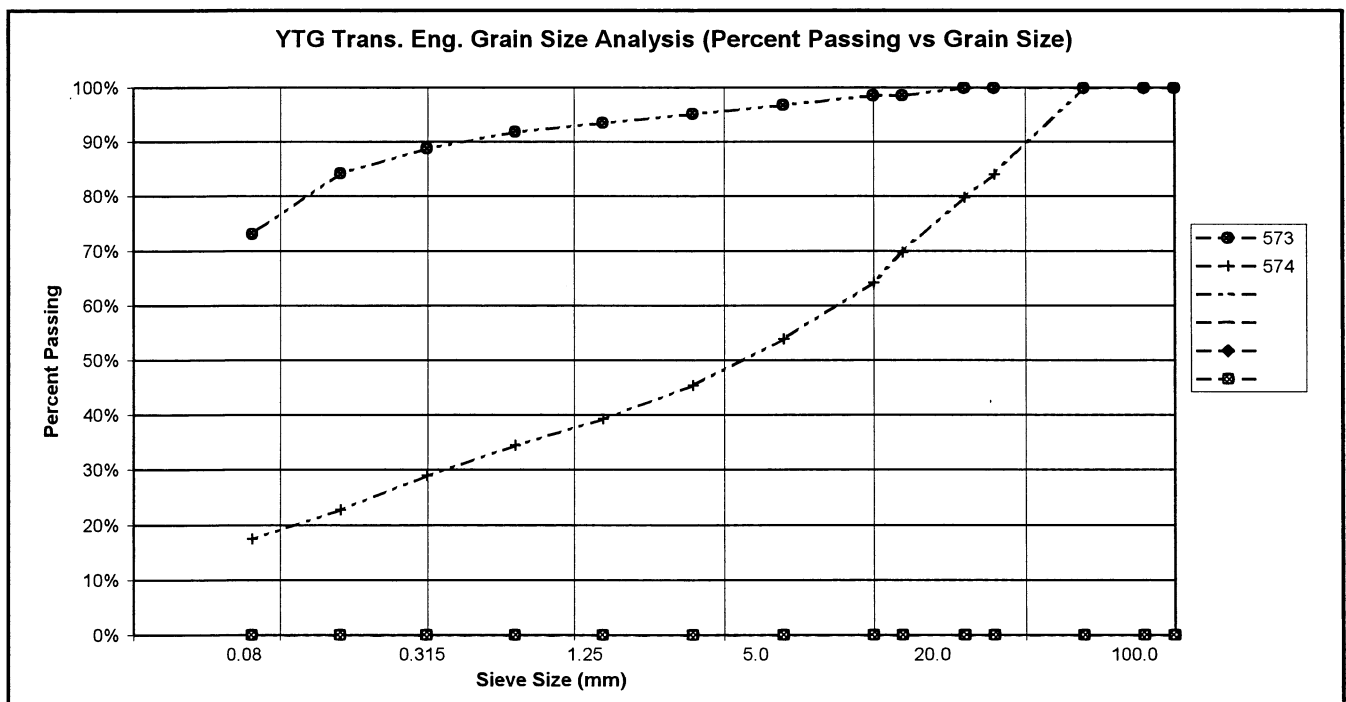


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+425 11M LT
 LOGGED BY: D.T.

HOLE No.: 611-332

DATE COMP: 2001/08/02

FIELD NO:	573	574			
LAB NO:	1320	1321			
DEPTH:	1.4-1.6	4.0-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	84%			
20.0	100%	80%			
12.5	99%	70%			
10.0	99%	64%			
5.0	97%	54%			
2.5	95%	45%			
1.25	94%	39%			
0.630	92%	35%			
0.315	89%	29%			
0.160	84%	23%			
0.080	73%	18%			
M.C.(%):	27%	11%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	3	46			
% SAND:	24	36			
% FINES:	73	18			
CLASSIFICATION	SILT WITH SAND (ML)	SILTY GRAVEL WITH SAND (GM)			

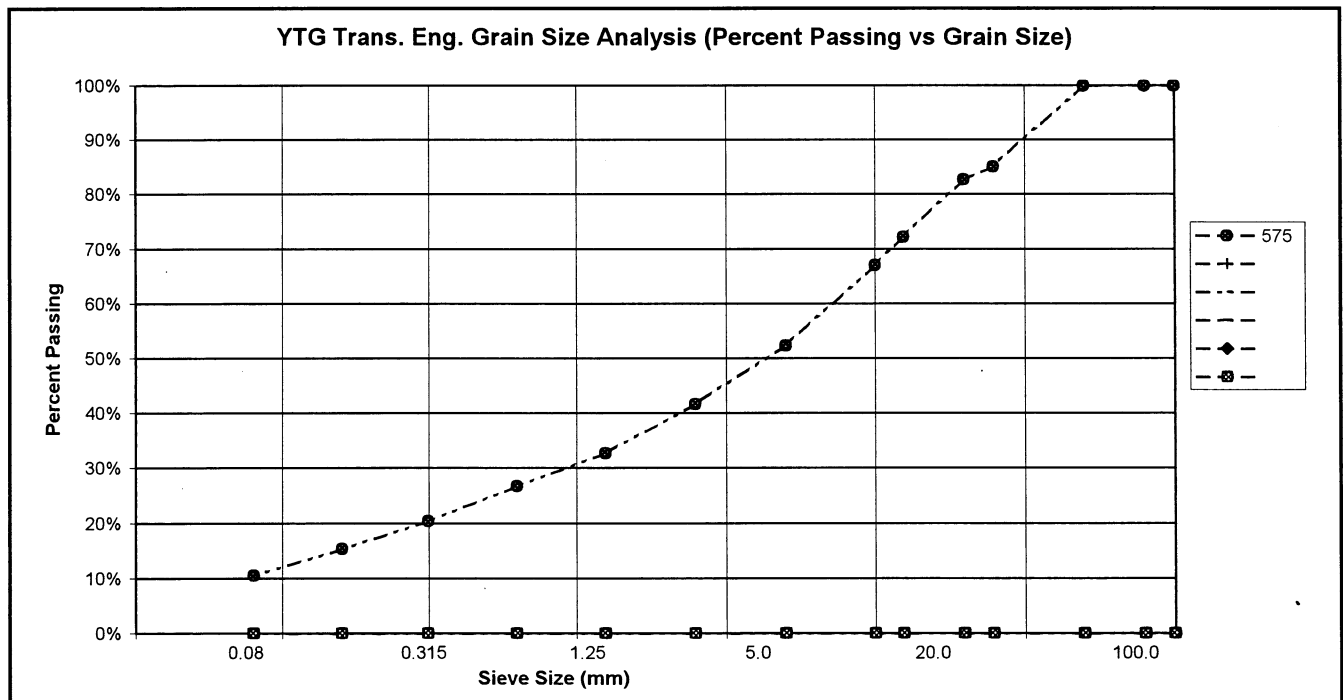


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+329 15M LT
 LOGGED BY: B.B.

HOLE No.: 612-333

DATE COMP: 2001/07/23

FIELD NO:	575				
LAB NO:	1322				
DEPTH:	2.0-2.2				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	85%				
20.0	83%				
12.5	72%				
10.0	67%				
5.0	52%				
2.5	42%				
1.25	33%				
0.630	27%				
0.315	20%				
0.160	15%				
0.080	11%				
M.C.(%):	8%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX:	0.0				
% GRAVEL:	48				
% SAND:	42				
% FINES:	11				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

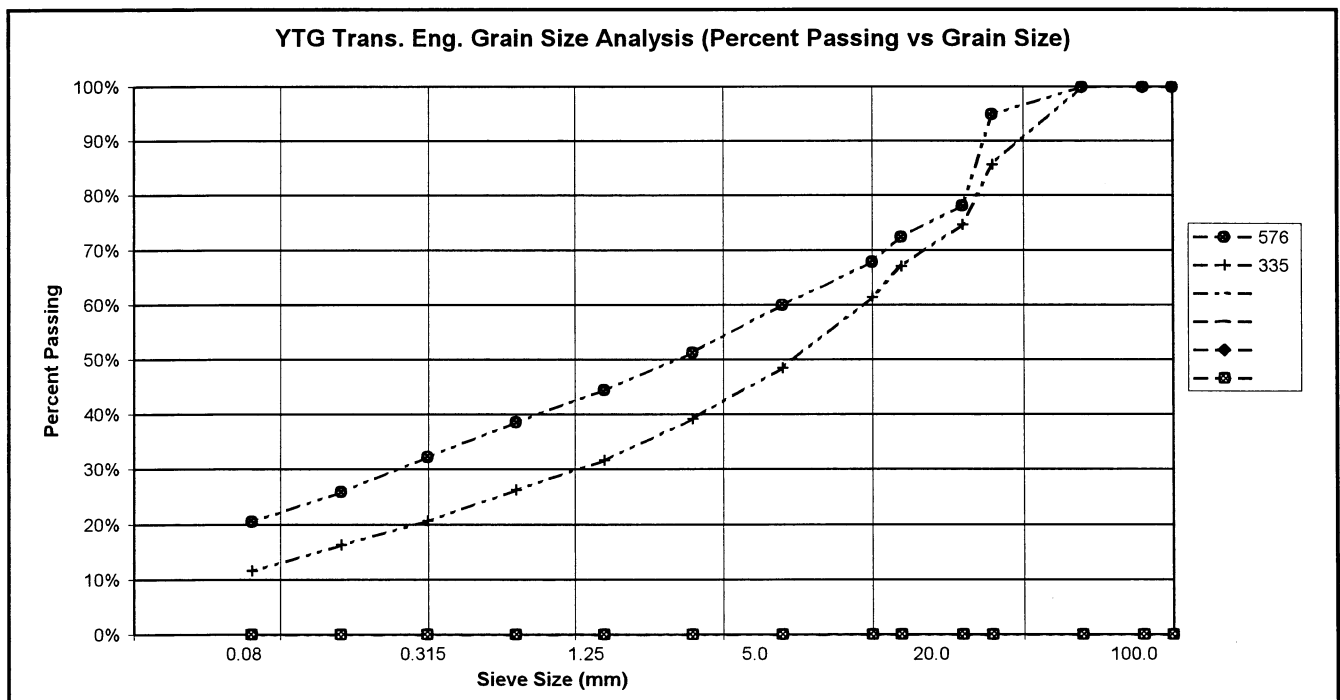


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+559 20 M RT
 LOGGED BY: B.B.

HOLE No.: 612-335

DATE COMP: 2001/08/02

FIELD NO:	576	335			
LAB NO:	1323	1324			
DEPTH:	1.8-2.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	95%	86%			
20.0	78%	75%			
12.5	72%	67%			
10.0	68%	61%			
5.0	60%	48%			
2.5	51%	39%			
1.25	45%	32%			
0.630	39%	26%			
0.315	32%	21%			
0.160	26%	16%			
0.080	21%	12%			
M.C.(%):	9%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	40	52			
% SAND:	39	37			
% FINES:	21	12			
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

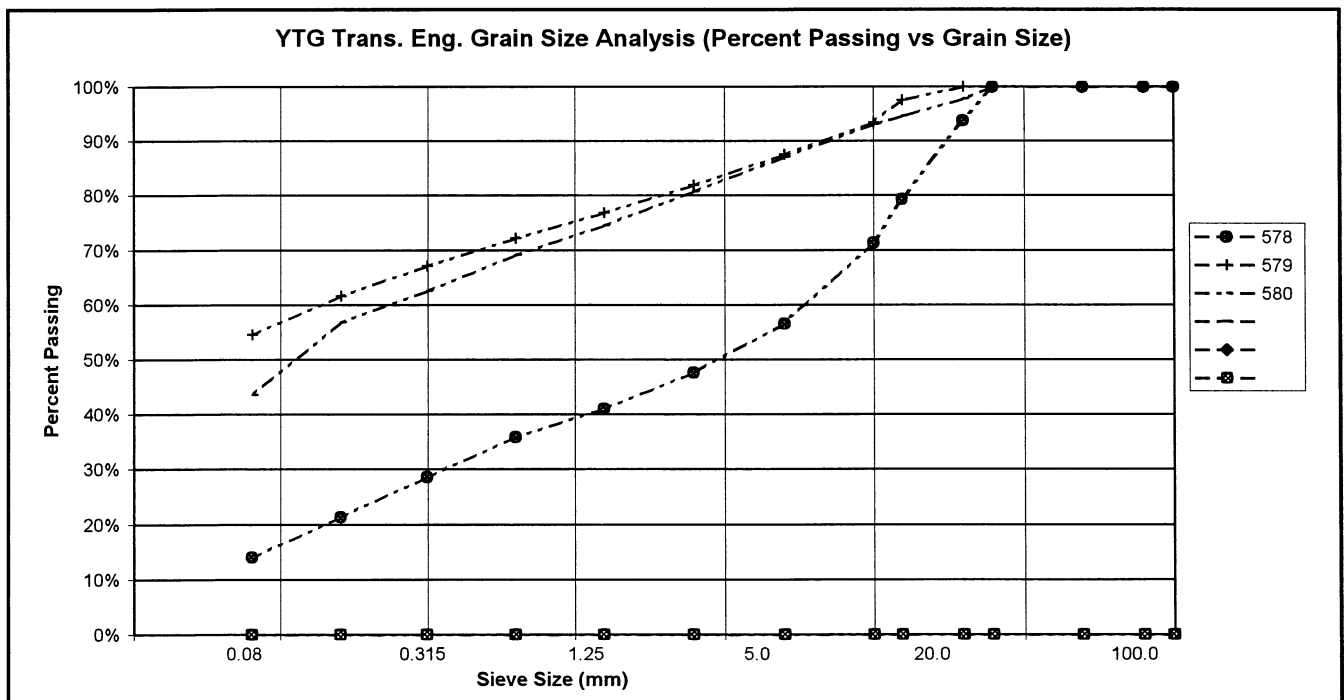


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+820 20M RT
 LOGGED BY: B.B.

HOLE No.: 612-336

DATE COMP: 2001/08/02

FIELD NO:	578	579	580		
LAB NO:	1325	1326	1327		
DEPTH:	1.2-1.4	2.9-3.1	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	100%		
20.0	94%	100%	98%		
12.5	79%	98%	95%		
10.0	71%	93%	93%		
5.0	57%	88%	87%		
2.5	48%	82%	81%		
1.25	41%	77%	75%		
0.630	36%	72%	69%		
0.315	29%	67%	63%		
0.160	21%	62%	57%		
0.080	14%	55%	43%		
M.C.(%)	5%	10%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	43	12	13		
% SAND:	42	33	44		
% FINES:	14	55	43		
CLASSIFICATION	SILTY GRAVEL WITH SAND (GM)	SANDY SILT (ML)	SILTY SAND (SM)		

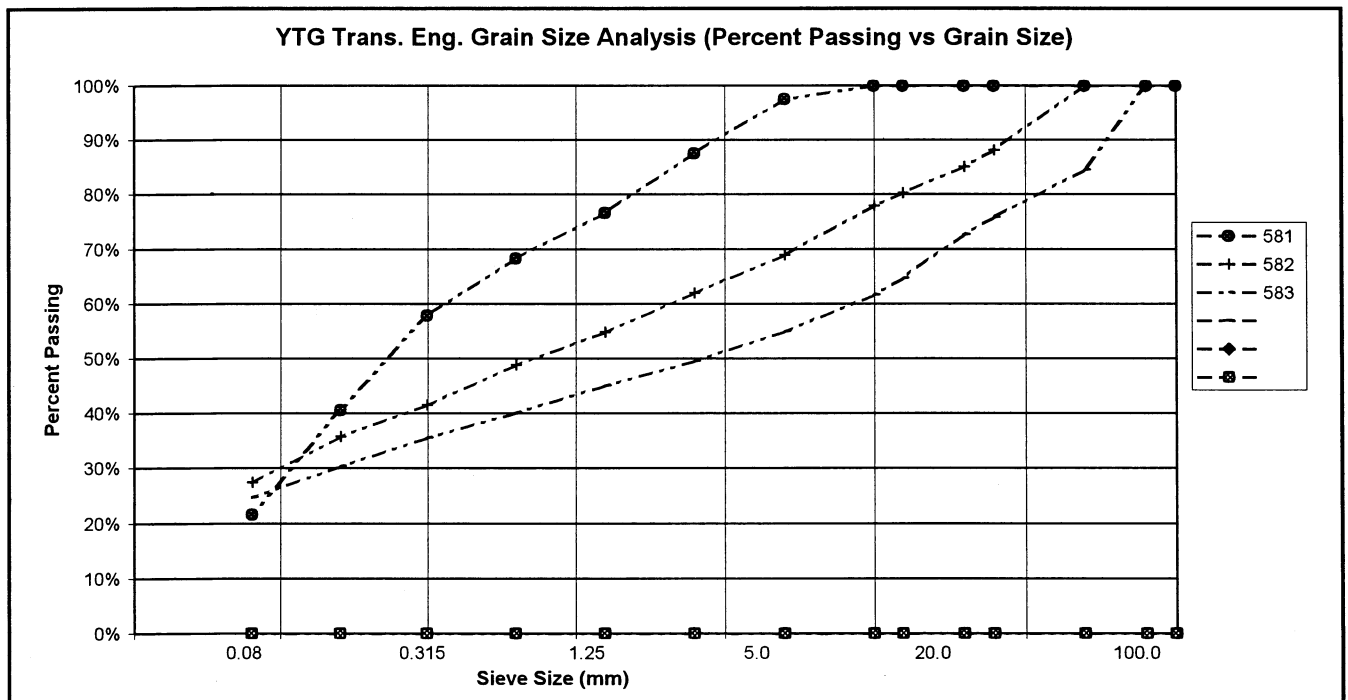


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1470+000 14M RT
 LOGGED BY: B.B.

HOLE No.: 612-337

DATE COMP: 2001/08/02

FIELD NO:	581	582	583		
LAB NO:	1328	1329	1330		
DEPTH:	0.8-1.0	3.0-3.2	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	85%		
25.0	100%	88%	76%		
20.0	100%	85%	73%		
12.5	100%	80%	65%		
10.0	100%	78%	62%		
5.0	98%	69%	55%		
2.5	88%	62%	50%		
1.25	77%	55%	45%		
0.630	68%	49%	40%		
0.315	58%	42%	36%		
0.160	41%	36%	30%		
0.080	22%	27%	25%		
M.C.(%)	11%	8%	6%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	2	31	45		
% SAND:	76	42	30		
% FINES:	22	27	25		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)		

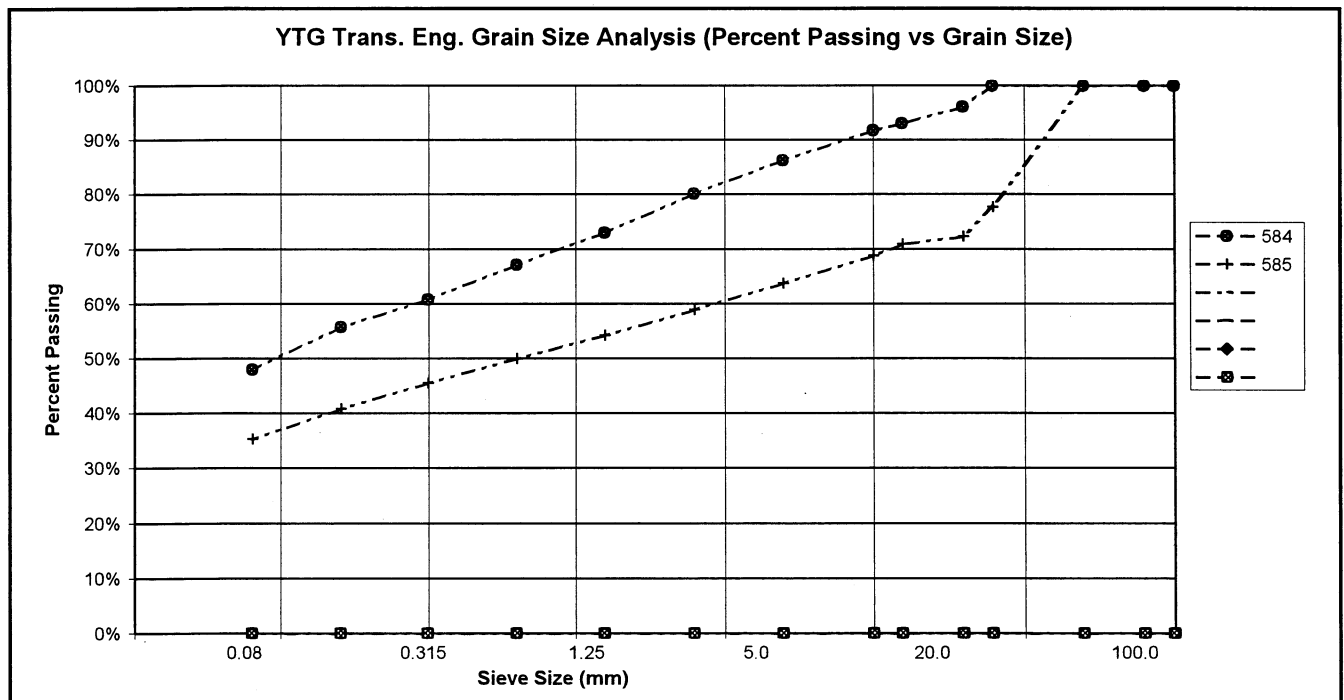


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1740+264 20M RT
 LOGGED BY: B.B.

HOLE No.: 612-338

DATE COMP: 2001/08/02

FIELD NO:	584	585			
LAB NO:	1331	1332			
DEPTH:	1.4-1.6	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	78%			
20.0	96%	72%			
12.5	93%	71%			
10.0	92%	69%			
5.0	86%	64%			
2.5	80%	59%			
1.25	73%	54%			
0.630	67%	50%			
0.315	61%	46%			
0.160	56%	41%			
0.080	48%	35%			
M.C.(%)	10%	10%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	14	36			
% SAND:	38	28			
% FINES:	48	35			
CLASSIFICATION	SILTY SAND (SM)	SILTY GRAVEL WITH SAND (GM)			

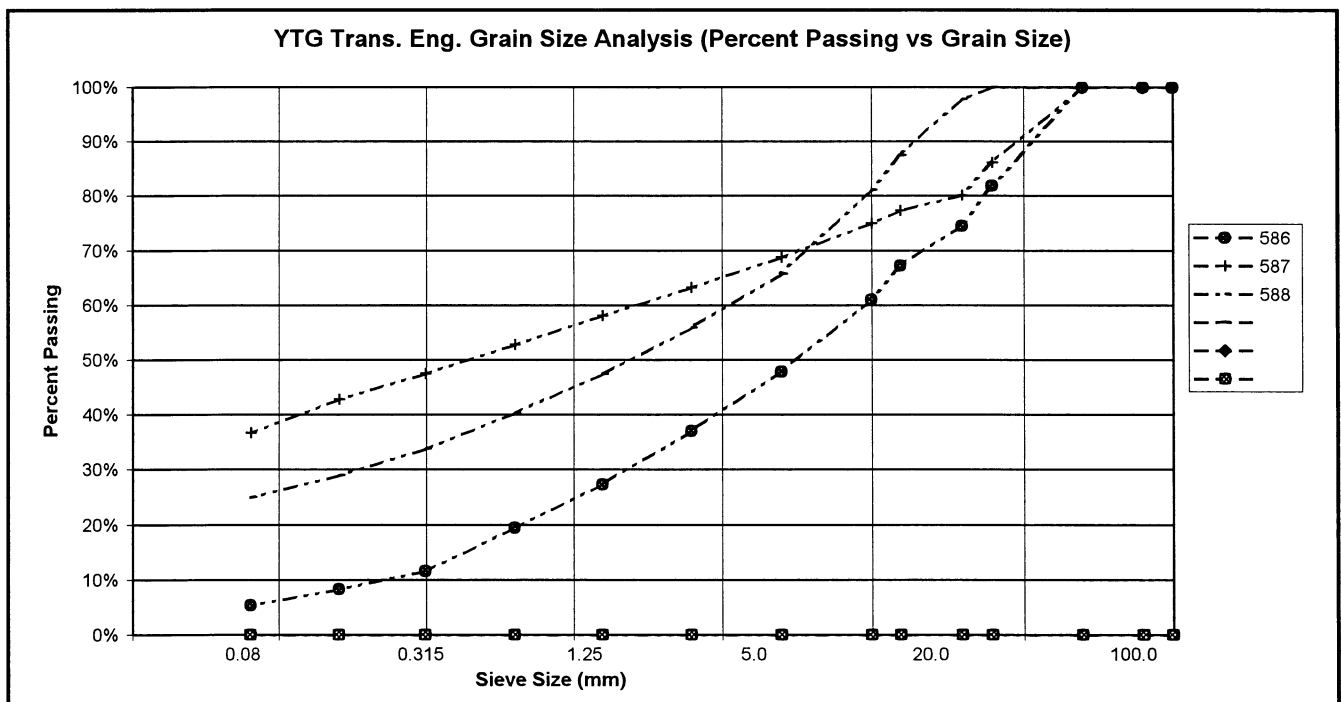


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1741+070 20M RT
 LOGGED BY: B.B.

HOLE No.: 612-339

DATE COMP: 2001/08/02

FIELD NO:	586	587	588		
LAB NO:	1333	1334	1335		
DEPTH:	1.2-1.4	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	82%	86%	100%		
20.0	74%	80%	98%		
12.5	67%	77%	87%		
10.0	61%	75%	81%		
5.0	48%	69%	66%		
2.5	37%	63%	56%		
1.25	27%	58%	47%		
0.630	19%	53%	40%		
0.315	12%	48%	34%		
0.160	8%	43%	29%		
0.080	5%	37%	25%		
M.C.(%)	3%	14%	8%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	52	31	34		
% SAND:	43	32	41		
% FINES:	5	37	25		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

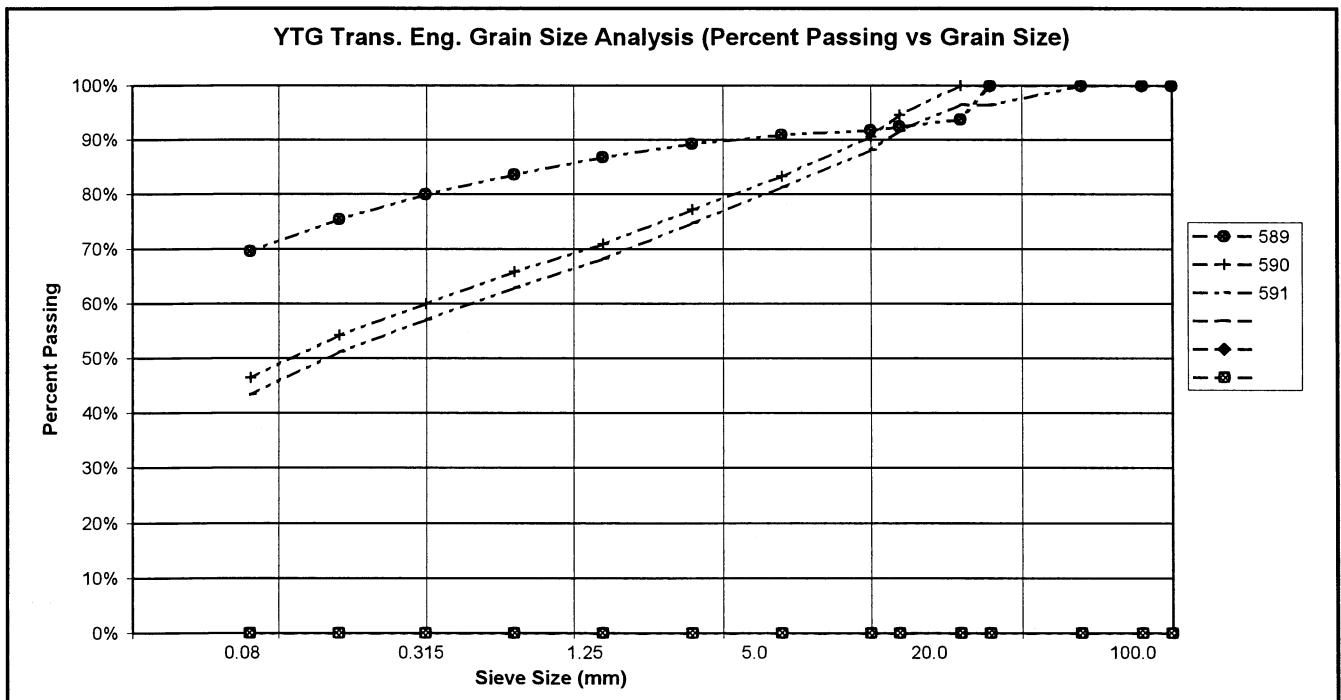


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+220 13M LT
 LOGGED BY: B.B.

HOLE No.: 612-340

DATE COMP: 2001/08/02

FIELD NO:	589	590	591		
LAB NO:	1336	1337	1338		
DEPTH:	0.7-0.9	2.9-3.1	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	100%	96%		
20.0	94%	100%	96%		
12.5	93%	95%	92%		
10.0	92%	91%	88%		
5.0	91%	83%	81%		
2.5	89%	77%	75%		
1.25	87%	71%	68%		
0.630	84%	66%	63%		
0.315	80%	60%	57%		
0.160	76%	54%	51%		
0.080	70%	46%	43%		
M.C.(%):	21%	13%	11%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	9	17	19		
% SAND:	21	37	38		
% FINES:	70	46	43		
CLASSIFICATION	SANDY SILT (ML)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

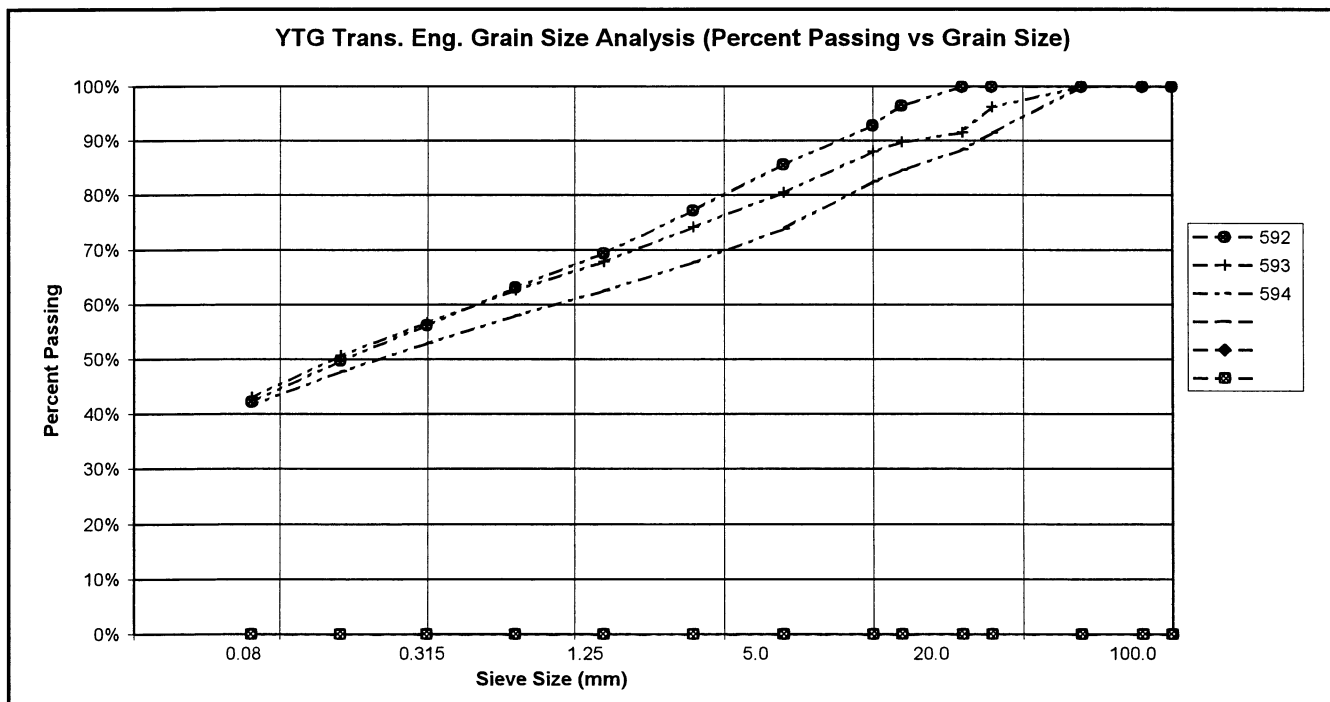


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+100 12M LT
 LOGGED BY: B.B.

HOLE No.: 612-341

DATE COMP: 2001/08/03

FIELD NO:	592	593	594		
LAB NO:	1339	1340	1341		
DEPTH:	1.2-1.4	3.0-3.2	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	100%	96%	91%		
20.0	100%	92%	88%		
12.5	97%	90%	85%		
10.0	93%	88%	82%		
5.0	86%	80%	74%		
2.5	77%	74%	68%		
1.25	69%	68%	63%		
0.630	63%	63%	58%		
0.315	56%	57%	53%		
0.160	50%	51%	48%		
0.080	42%	43%	42%		
M.C.(%):	9%	8%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	14	20	26		
% SAND:	43	37	32		
% FINES:	42	43	42		
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	SILTY SAND WITH GRAVEL (SM)		

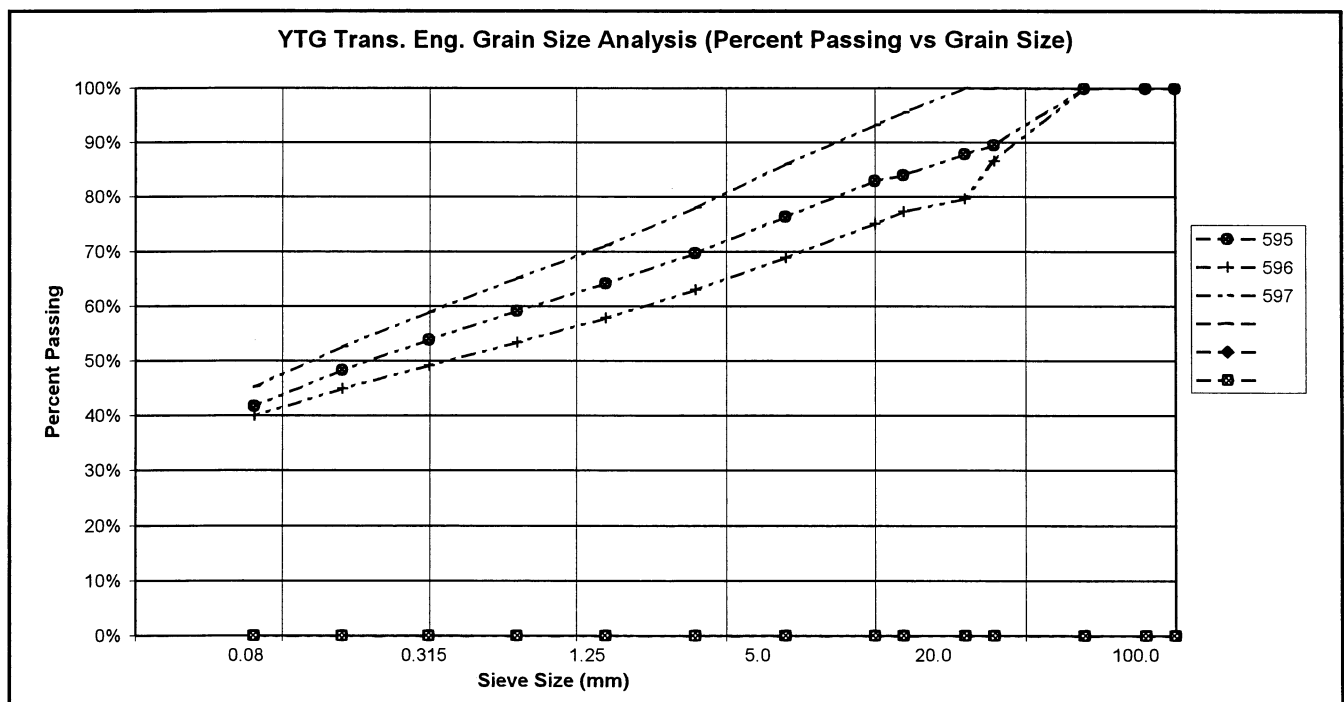


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1739+000 25M LT
 LOGGED BY: B.B.

HOLE No.: 612-342

DATE COMP: 2001/08/03

FIELD NO:	595	596	597		
LAB NO:	1342	1343	1344		
DEPTH:	1.4-1.6	2.8-3.0	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	90%	87%	100%		
20.0	88%	80%	100%		
12.5	84%	77%	96%		
10.0	83%	75%	93%		
5.0	76%	69%	86%		
2.5	70%	63%	78%		
1.25	64%	58%	71%		
0.630	59%	53%	65%		
0.315	54%	49%	59%		
0.160	48%	45%	53%		
0.080	42%	40%	45%		
M.C.(%):	13%	8%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX.:	0.0	0.0	0.0		
% GRAVEL:	24	31	14		
% SAND:	35	29	41		
% FINES:	42	40	45		
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	SILTY GRAVEL WITH SAND (GM)	SILTY SAND (SM)		

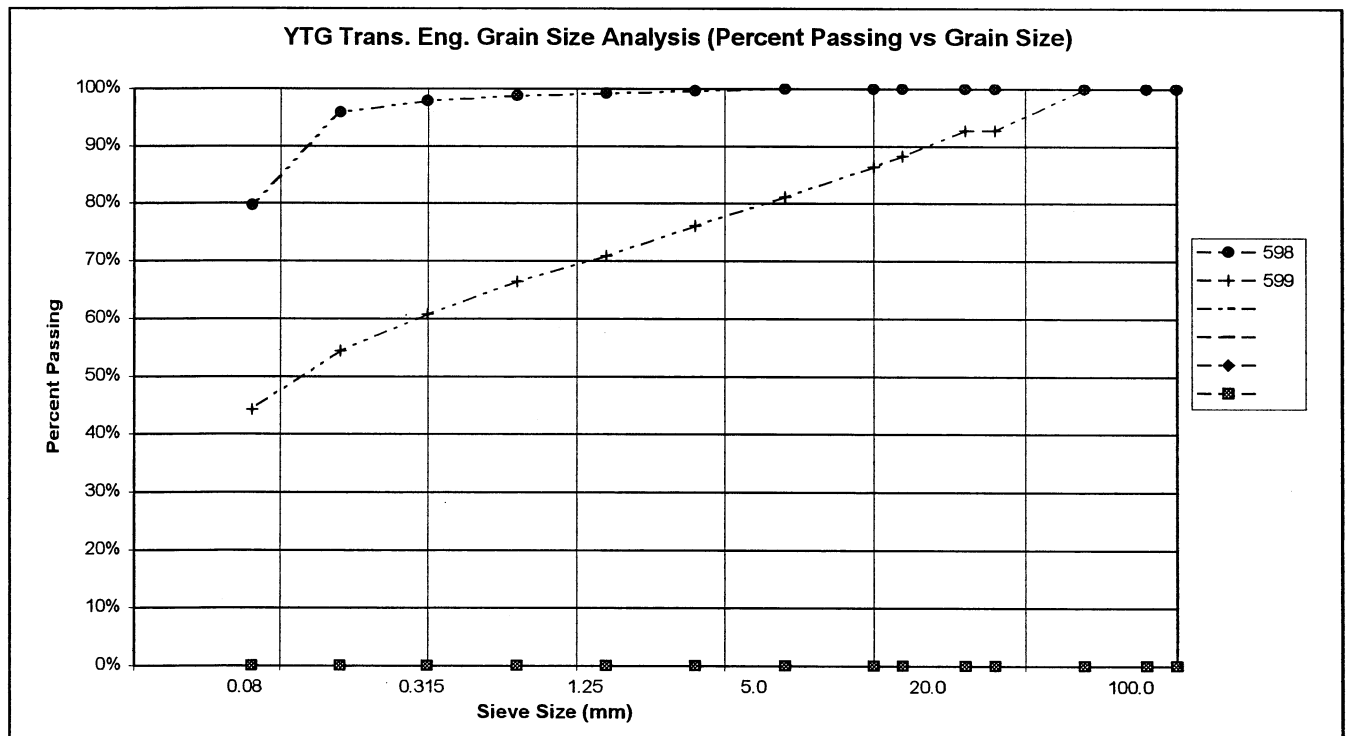


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+781 BK; 1738+919 AH 32m LT
 LOGGED BY: B.B.

HOLE No.: 612-343

DATE COMP: 2001/08/03

FIELD NO:	598	599				
LAB NO:	1345	1346				
DEPTH:	1.5-1.7	4.3-4.5				
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING				
100.0	100%	100%				
80.0	100%	100%				
50.0	100%	100%				
25.0	100%	93%				
20.0	100%	93%				
12.5	100%	88%				
10.0	100%	86%				
5.0	100%	81%				
2.5	100%	76%				
1.25	99%	71%				
0.630	99%	66%				
0.315	98%	61%				
0.160	96%	54%				
0.080	80%	44%				
M.C.(%):	28%	14%				
LIQUID LIMIT:	0.0	0.0				
PLASTIC LIMIT:	0.0	0.0				
PLASTIC INDEX:	0.0	0.0				
% GRAVEL:	0	19				
% SAND:	20	37				
% FINES:	80	44				
CLASSIFICATION	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)				

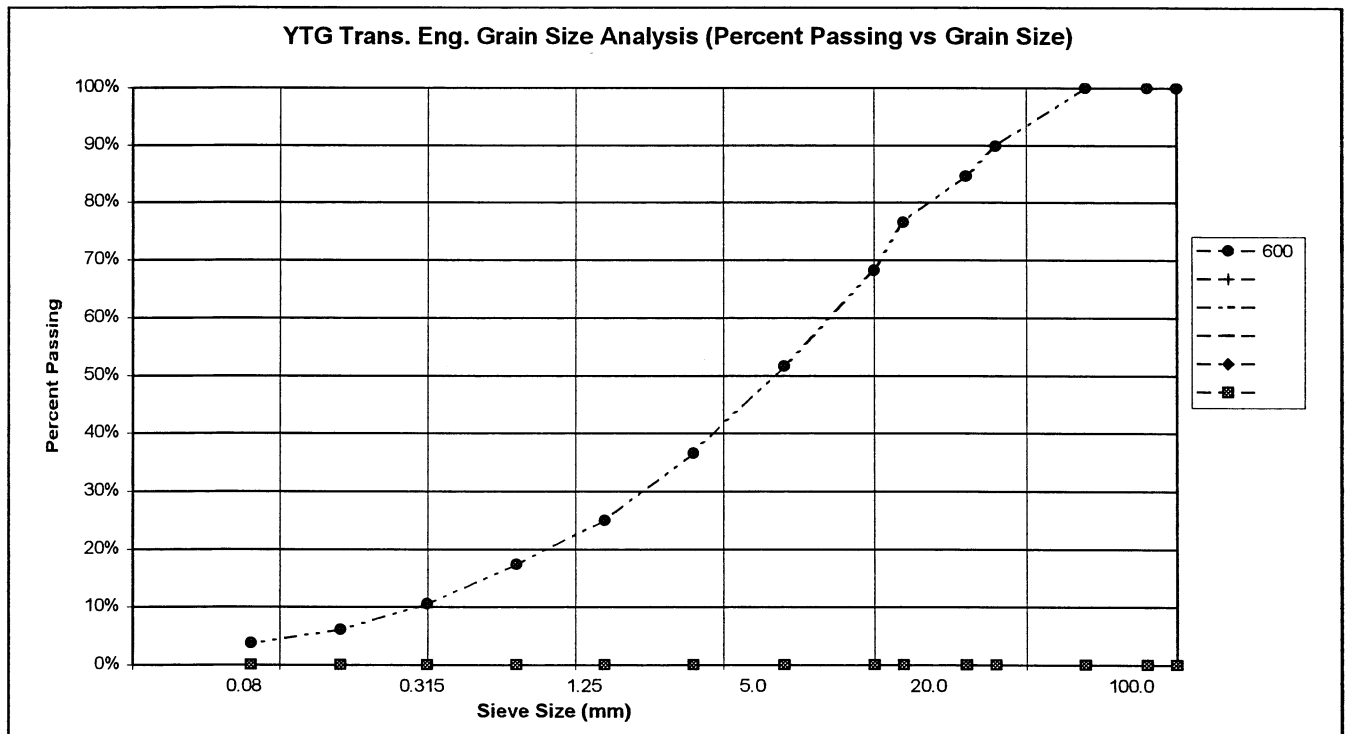


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+666 BK; 1738+804 AH 82m LT
 LOGGED BY: B.B.

HOLE No.: 612-344

DATE COMP: 2001/08/03

FIELD NO:	600				
LAB NO:	1347				
DEPTH:	1.3-1.5				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	90%				
20.0	85%				
12.5	77%				
10.0	68%				
5.0	52%				
2.5	37%				
1.25	25%				
0.630	17%				
0.315	11%				
0.160	6%				
0.080	4%				
M.C.(%):	7%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	48				
% SAND:	48				
% FINES:	4				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SAND (GP)				

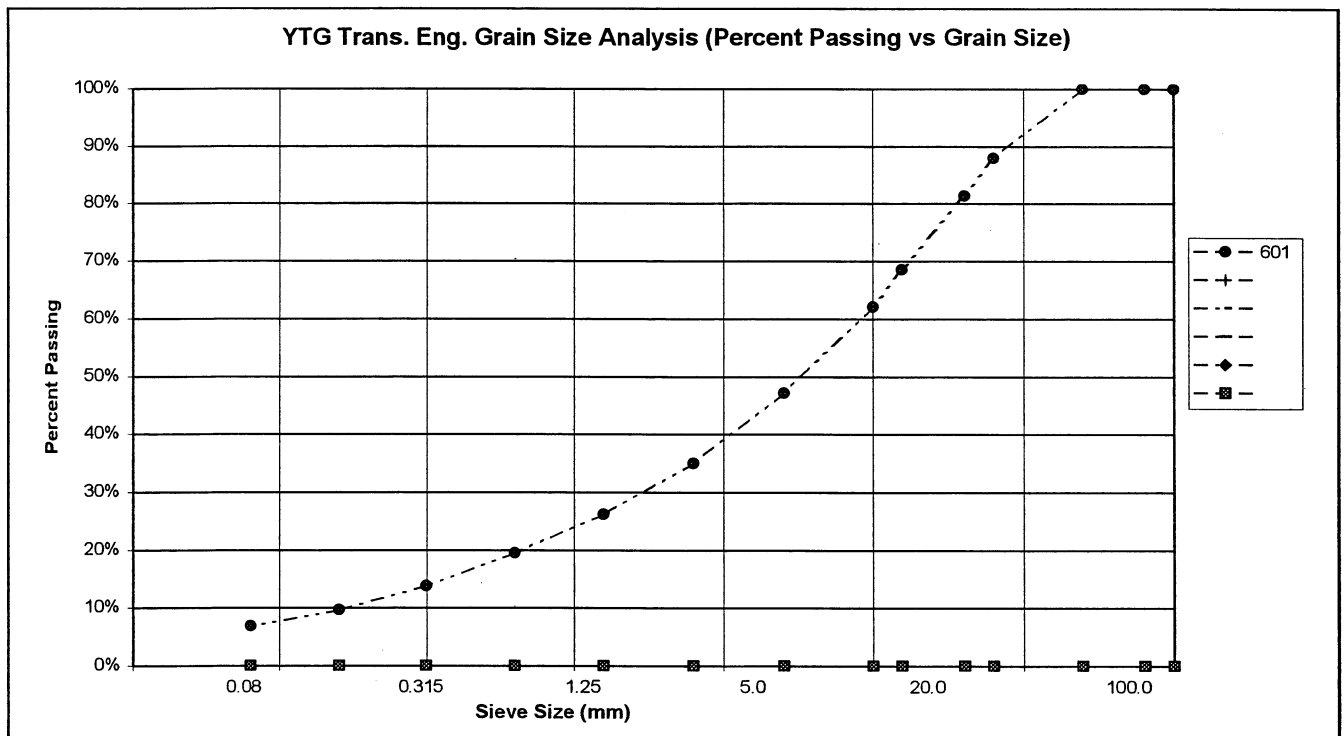


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+603 BK; 1738+741 AH 21m LT
 LOGGED BY: B.B.

HOLE No.: 612-345

DATE COMP: 2001/08/03

FIELD NO:	601				
LAB NO:	1348				
DEPTH:	1.2-1.4				
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING				
100.0	100%				
80.0	100%				
50.0	100%				
25.0	88%				
20.0	81%				
12.5	69%				
10.0	62%				
5.0	47%				
2.5	35%				
1.25	26%				
0.630	20%				
0.315	14%				
0.160	10%				
0.080	7%				
M.C.(%):	2%				
LIQUID LIMIT:	0.0				
PLASTIC LIMIT:	0.0				
PLASTIC INDEX.:	0.0				
% GRAVEL:	53				
% SAND:	40				
% FINES:	7				
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)				

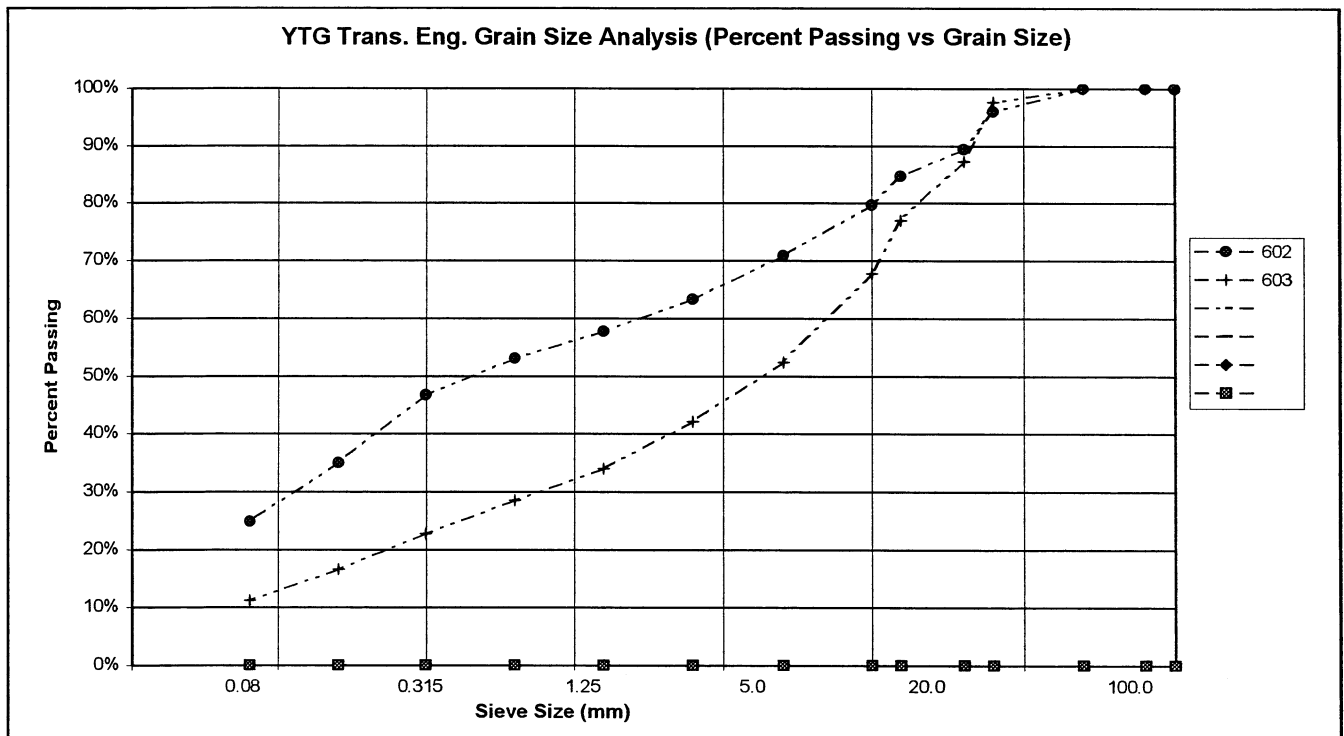


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+404 BK; 1738+542 AH 13m LT
 LOGGED BY: B.B.

HOLE No.: 612-346

DATE COMP: 2001/08/03

FIELD NO:	602	603			
LAB NO:	1349	1350			
DEPTH:	1.2-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	96%	98%			
20.0	89%	87%			
12.5	85%	77%			
10.0	80%	68%			
5.0	71%	52%			
2.5	63%	42%			
1.25	58%	34%			
0.630	53%	29%			
0.315	47%	23%			
0.160	35%	17%			
0.080	25%	11%			
M.C.(%):	13%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	29	48			
% SAND:	46	41			
% FINES:	25	11			
CLASSIFICATION	SILTY SAND WITH GRAVEL (SM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

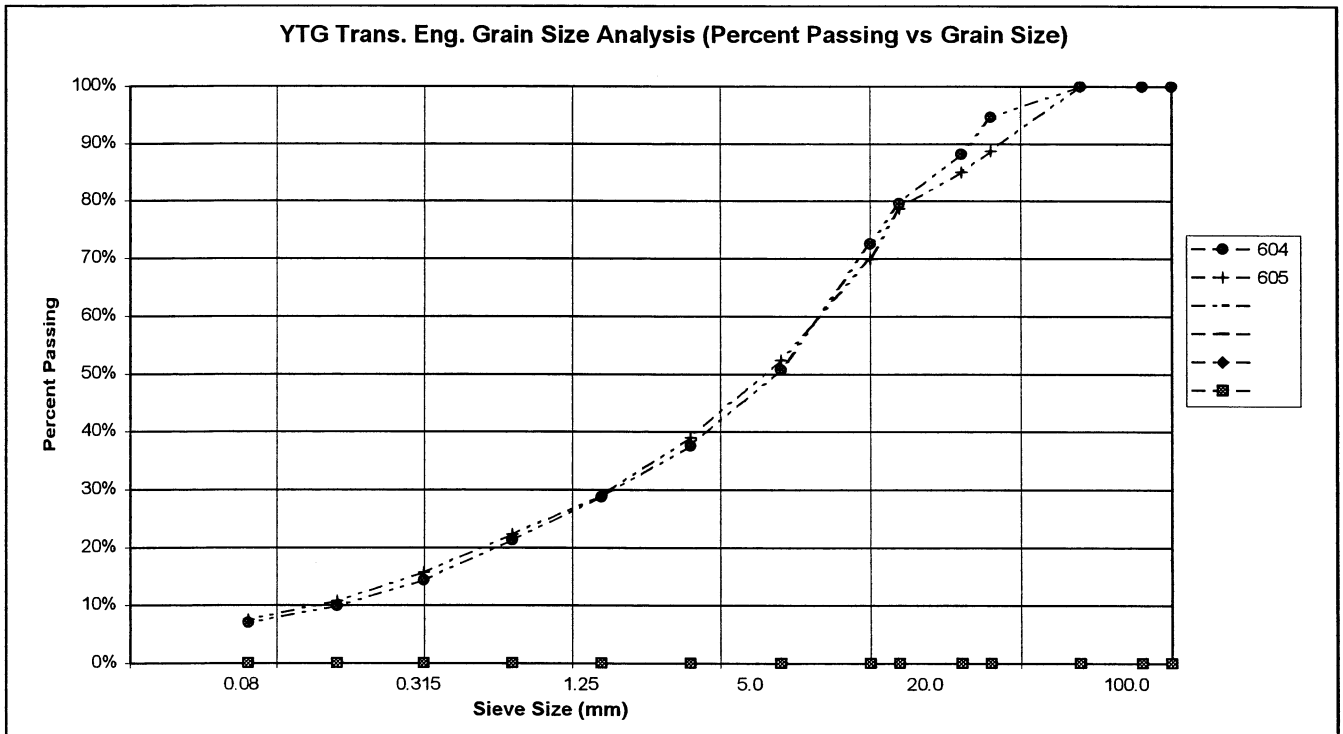


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+303 BK; 1738+441 AH C.L.
 LOGGED BY: B.B.

HOLE No.: 612-347

DATE COMP: 2001/08/03

FIELD NO:	604	605			
LAB NO:	1351	1352			
DEPTH:	1.4-1.6	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	95%	89%			
20.0	88%	85%			
12.5	80%	79%			
10.0	73%	70%			
5.0	51%	52%			
2.5	38%	39%			
1.25	29%	29%			
0.630	21%	22%			
0.315	14%	16%			
0.160	10%	11%			
0.080	7%	8%			
M.C.(%):	3%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	49	48			
% SAND:	44	45			
% FINES:	7	8			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)			

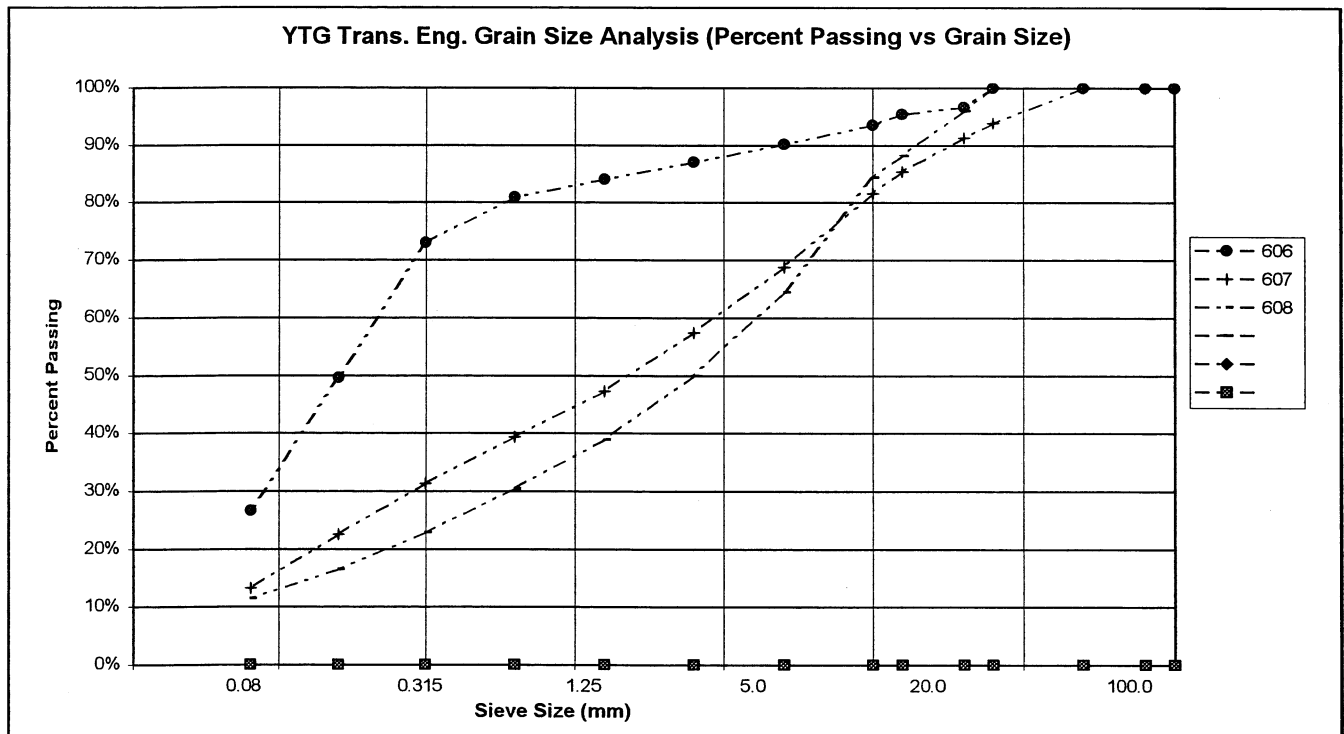


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+306 BK; 1738+444 AH 25m LT
 LOGGED BY: B.B.

HOLE No.: 612-348

DATE COMP: 2001/08/03

FIELD NO:	606	607	608			
LAB NO:	1353	1354	1355			
DEPTH:	1.3-1.5	2.8-3.0	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER		
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%	100%			
80.0	100%	100%	100%			
50.0	100%	100%	100%			
25.0	100%	94%	100%			
20.0	97%	91%	96%			
12.5	95%	85%	88%			
10.0	94%	82%	84%			
5.0	90%	69%	64%			
2.5	87%	57%	50%			
1.25	84%	47%	39%			
0.630	81%	39%	30%			
0.315	73%	31%	23%			
0.160	50%	23%	16%			
0.080	27%	13%	11%			
M.C.(%):	3%	2%	2%			
LIQUID LIMIT:	0.0	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0	0.0			
% GRAVEL:	10	31	36			
% SAND:	64	56	53			
% FINES:	27	13	11			
CLASSIFICATION	SILTY SAND (SM)	SILTY SAND WITH GRAVEL (SM)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

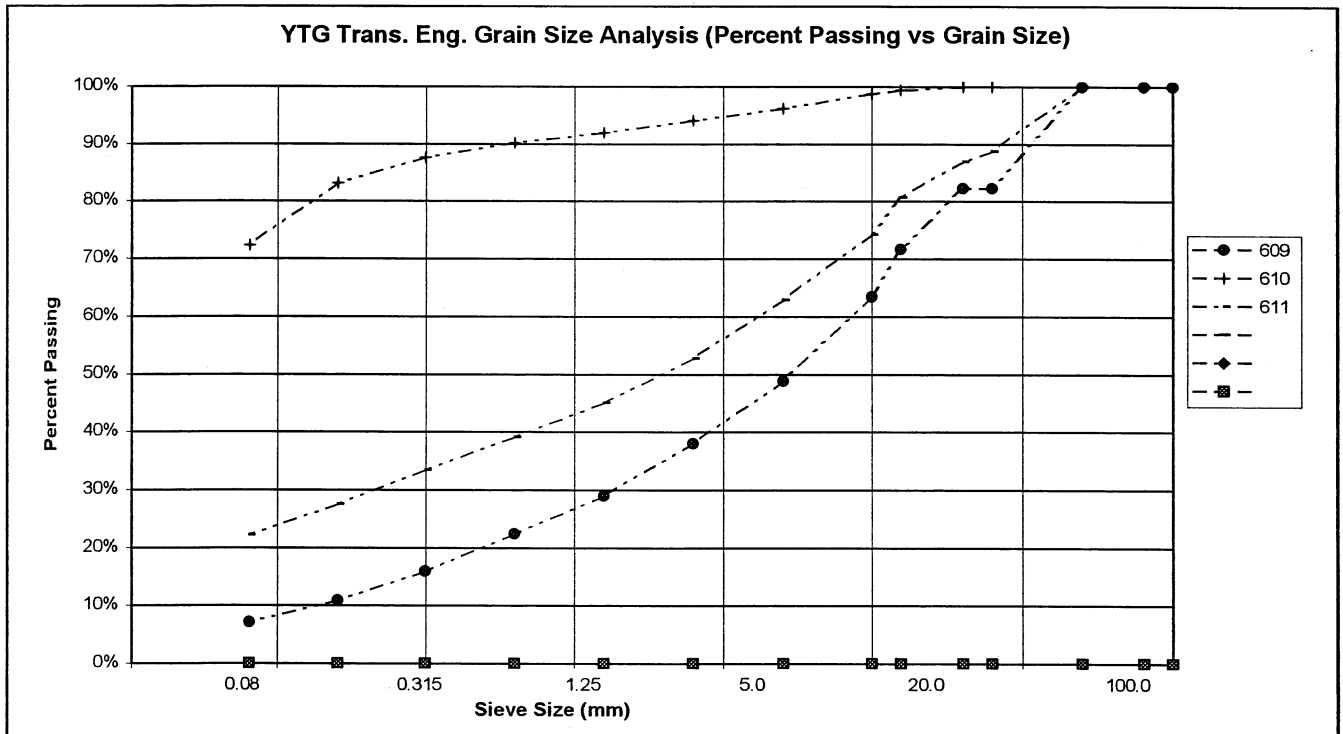


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+200 BK; 1738+338 AH 3m RT
 LOGGED BY: B.B.

HOLE No.: 612-349

DATE COMP: 2001/08/03

FIELD NO:	609	610	611		
LAB NO:	1356	1357	1358		
DEPTH:	1.3-1.5	2.9-3.1	4.3-4.5		
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING	PERCENT PASSING		
100.0	100%	100%	100%		
80.0	100%	100%	100%		
50.0	100%	100%	100%		
25.0	82%	100%	89%		
20.0	82%	100%	87%		
12.5	72%	99%	81%		
10.0	63%	99%	74%		
5.0	49%	96%	63%		
2.5	38%	94%	53%		
1.25	29%	92%	45%		
0.630	22%	90%	39%		
0.315	16%	88%	33%		
0.160	11%	83%	28%		
0.080	7%	72%	22%		
M.C.(%):	4%	27%	9%		
LIQUID LIMIT:	0.0	0.0	0.0		
PLASTIC LIMIT:	0.0	0.0	0.0		
PLASTIC INDEX:	0.0	0.0	0.0		
% GRAVEL:	51	4	37		
% SAND:	42	24	41		
% FINES:	7	72	22		
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILT WITH SAND (ML)	SILTY SAND WITH GRAVEL (SM)		

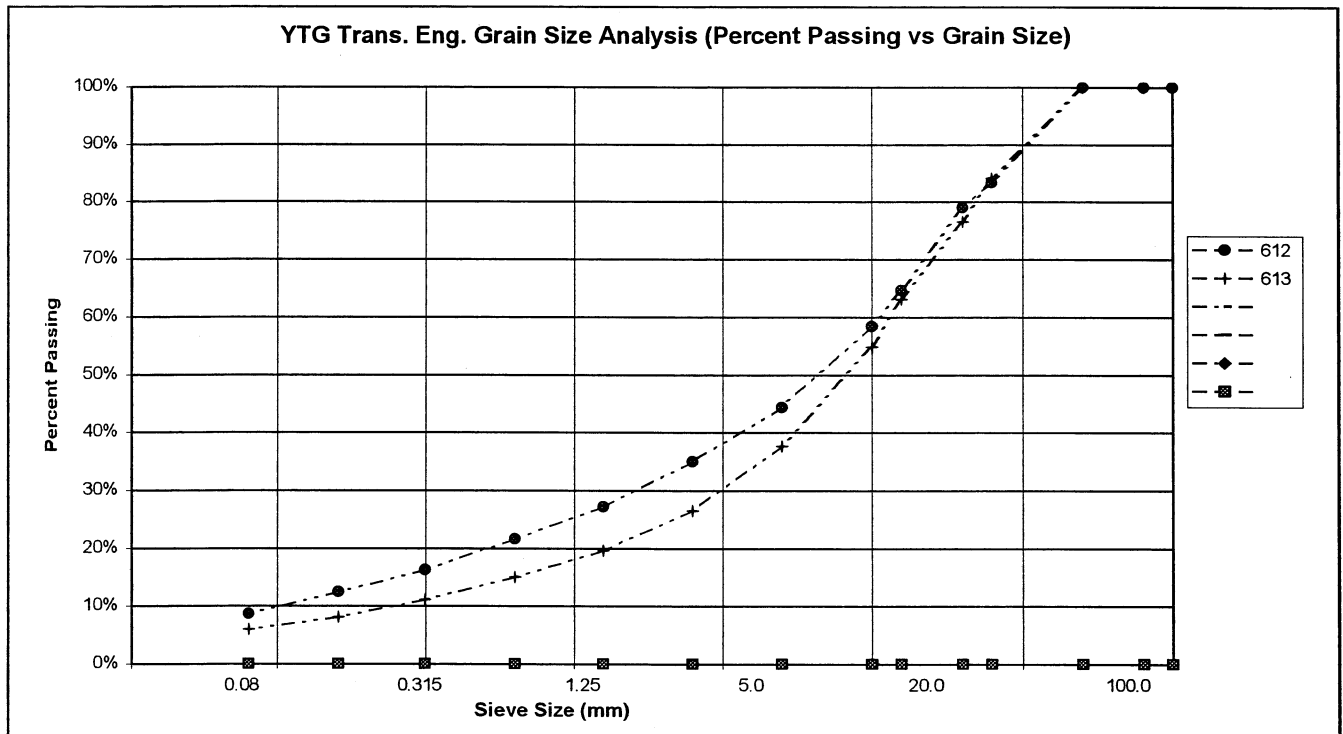


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+135 BK; 1738+273 AH 15m LT
 LOGGED BY: B.B.

HOLE No.: 612-350

DATE COMP: 2001/08/03

FIELD NO:	612	613			
LAB NO:	1359	1360			
DEPTH:	1.2-1.4	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	83%	84%			
20.0	79%	77%			
12.5	65%	63%			
10.0	58%	55%			
5.0	44%	38%			
2.5	35%	27%			
1.25	27%	20%			
0.630	22%	15%			
0.315	16%	11%			
0.160	12%	8%			
0.080	9%	6%			
M.C.(%):	5%	2%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	56	62			
% SAND:	36	32			
% FINES:	9	6			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	WELL-GRADED GRAVEL WITH SILT & SAND (GW-GM)			

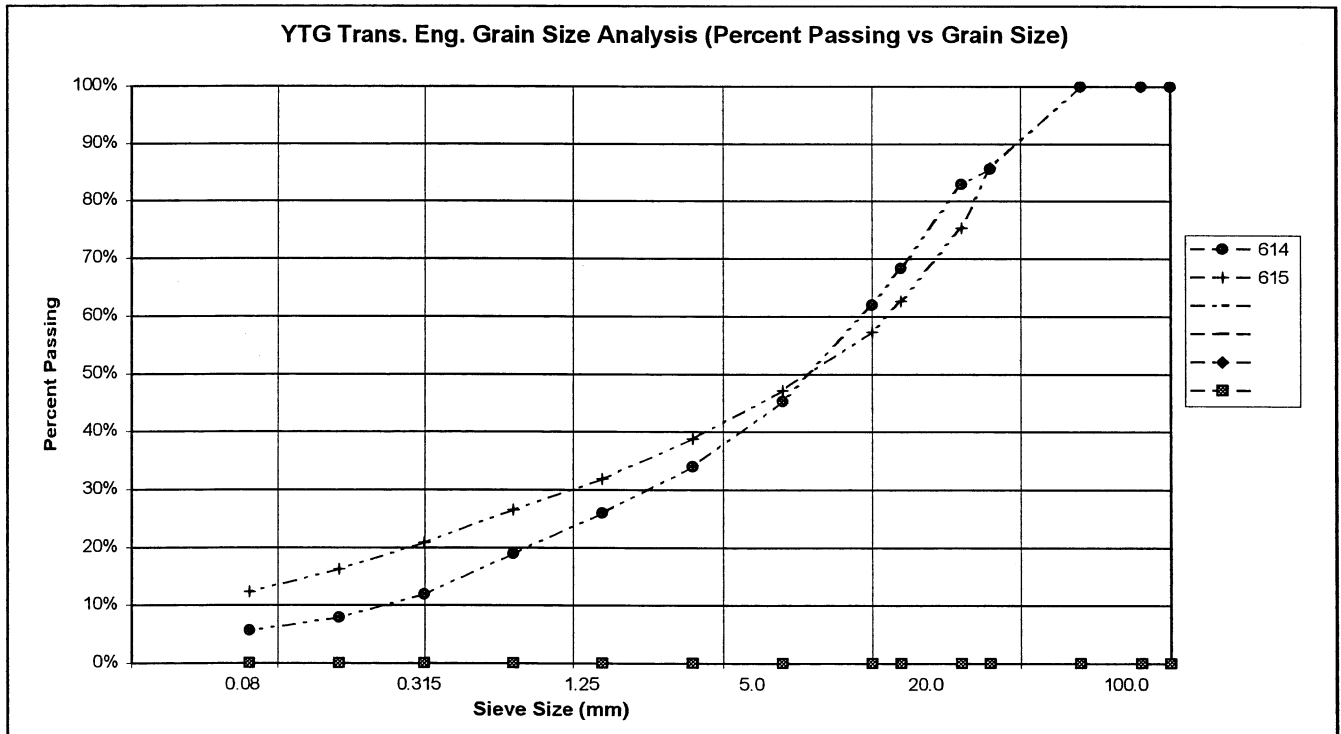


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+135 BK; 1738+273 AH C.L.
 LOGGED BY: B.B.

HOLE No.: 612-351

DATE COMP: 2001/08/03

FIELD NO:	614	615			
LAB NO:	1361	1362			
DEPTH:	1.4-1.6	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	86%	86%			
20.0	83%	75%			
12.5	68%	63%			
10.0	62%	57%			
5.0	45%	47%			
2.5	34%	39%			
1.25	26%	32%			
0.630	19%	27%			
0.315	12%	21%			
0.160	8%	16%			
0.080	6%	12%			
M.C.(%):	4%	5%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	55	53			
% SAND:	40	35			
% FINES:	6	12			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)			

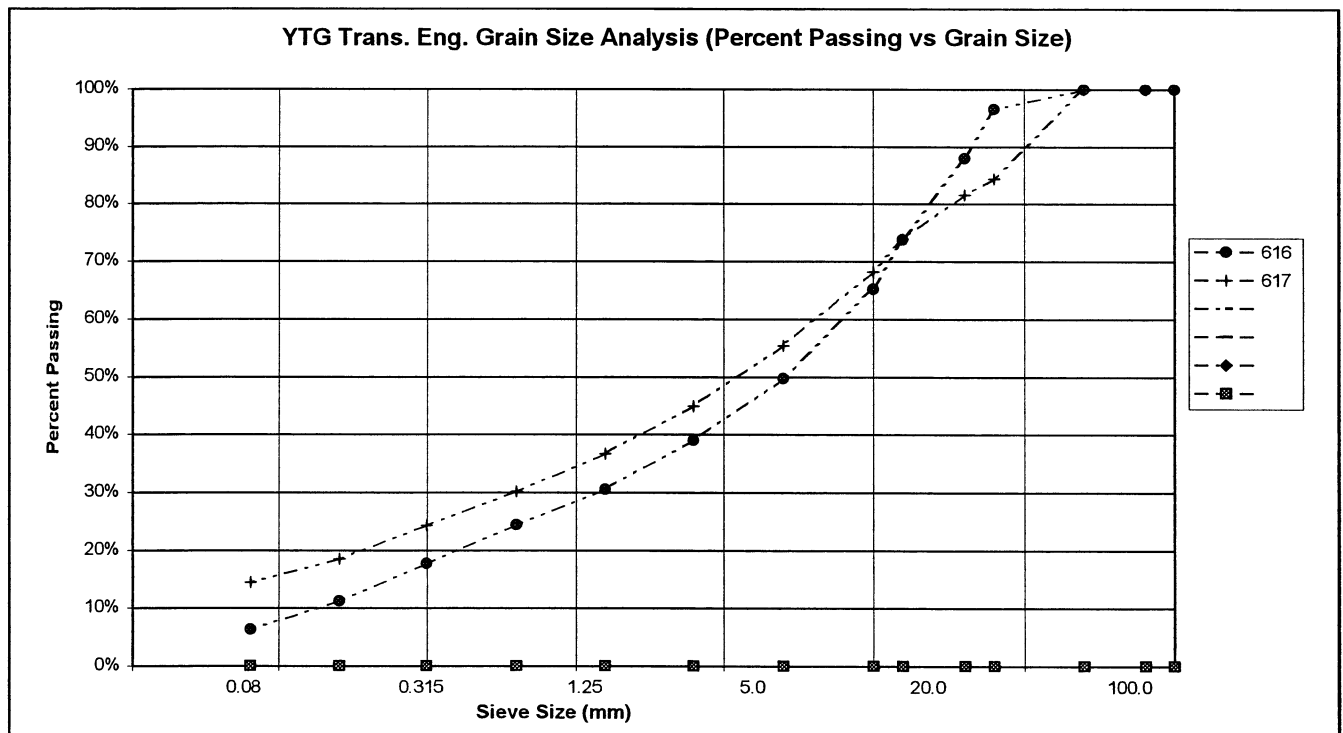


PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+140 BK; 1738+278 AH 15m RT
 LOGGED BY: B.B.

HOLE No.: 612-352

DATE COMP: 2001/08/03

FIELD NO:	616	617			
LAB NO:	1363	1364			
DEPTH:	1.3-1.5	4.3-4.5			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	96%	84%			
20.0	88%	82%			
12.5	74%	74%			
10.0	65%	68%			
5.0	50%	55%			
2.5	39%	45%			
1.25	31%	37%			
0.630	24%	30%			
0.315	18%	24%			
0.160	11%	19%			
0.080	6%	14%			
M.C.(%):	5%	6%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX:	0.0	0.0			
% GRAVEL:	50	45			
% SAND:	43	41			
% FINES:	6	14			
CLASSIFICATION	POORLY GRADED GRAVEL WITH SILT & SAND (GP-GM)	SILTY GRAVEL WITH SAND (GM)			



PROJECT NUMBER: 092-202101-0361-1
 CLIENT: ENGINEERING CAPITAL
 PROJECT NAME: SHAKWAK SEG 11
 PROJECT LOCATION: Km 1729.6-1787 A/H
 DRILL UNIT: MOBILE B40 L
 HOLE LOCATION: 1734+025 BK; 1738+163 AH 3m RT
 LOGGED BY: B.B.

HOLE No.: 612-353

DATE COMP: 2001/08/03

FIELD NO:	618	619			
LAB NO:	1365	1366			
DEPTH:	1.3-1.5	2.9-3.1			
TYPE:	AUGER	AUGER	AUGER	AUGER	
SIEVE SIZE	PERCENT PASSING	PERCENT PASSING			
100.0	100%	100%			
80.0	100%	100%			
50.0	100%	100%			
25.0	100%	95%			
20.0	100%	85%			
12.5	100%	75%			
10.0	100%	71%			
5.0	99%	56%			
2.5	97%	44%			
1.25	94%	34%			
0.630	90%	27%			
0.315	84%	20%			
0.160	77%	15%			
0.080	67%	10%			
M.C.(%):	30%	4%			
LIQUID LIMIT:	0.0	0.0			
PLASTIC LIMIT:	0.0	0.0			
PLASTIC INDEX.:	0.0	0.0			
% GRAVEL:	1	44			
% SAND:	31	46			
% FINES:	67	10			
CLASSIFICATION	SANDY SILT (ML)	WELL-GRADED SAND WITH SILT & GRAVEL (SW-SM)			

