

المرم (٥)



بسم الله الرحمن الرحيم
شركة مكة البركة للمقاولات

اسم المشروع : مشروع القطار السريع (العين السخنة - العاصمة الادارية - العلمين - مطروح).

رقم	المعدة	العدد	ملاحظات
١	حفار	١٥	
٢	بلدوزر	١	
٣	عربات نقل	١٦	
٤	لودر	٧	
٥	درييل	١	
٦	سيارة مياه	١	
٧	هراس	١	
٨	جنيذر	١	
٩	تاتك مياه	٢	
١٠	كسارة	١	

مهندس الهيئة





الهيئة العامة
للطرق والكباري
للإدارة العامة على جنوب سيناء



هيكل تنظيمي للعاملين بمشروع القطار السريع

شركة مكة البركة للمقاولات

قطاع الشركة من ٩٤+٥٥٥,٤٢ الي ٩٦+٤٥٥,٤٢

٢٠٢٣/ /

التاريخ :

اسم المشروع : مشروع القطار السريع (العين السخنة-العاصمة الادارية العلمين-مطروح)

مسلسل	الاسم	الوظيفة	ملاحظات
1	عبدالرحمن يحيى	مدير المشروع	
2	عمرو عادل سيد	مهندس المكتب الفني	
3	رضا محمود	مهندس ضبط الجودة	
4	محمد خالد	مدير السلامة الوقائية	
5	سامح محمد حسين	مهندس التنفيذ	
6	احمد سعيد	مهندس التخطيط والبرمجة الزمنية	
7	علي عباده	مراقب تنفيذ	
8	حسين سليمان سعيد	مراقب تنفيذ	
9	محمد عبد العال محمد	مساح	
10	مصطفى محمد ابراهيم	مساح	



تنفيذ :- شركة مكة البركة للمقاولات

عن عملية: مشروع تنفيذ الجسر الترابى والاعممال الصناعيه بقطاع العاصمة الاداريه ضمن مشروع انشاء القطار الكهربائى السريع (السفحه - العاصمة الادارية - المطمين

الحديدية، المسافة من كم ٤٢.٥٥٥+٩٤ حتى كم ٤٢.٤٥٥+٩٦ بطول ١.٩ كم (اتجاه النيل)، عقد رقم ٢٠٢٣/٢٠٢٢/٧٩٩

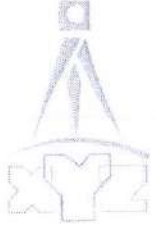
حصر مستخلص رقم (٥) جارى

حصر الاعمال فى الفترة من ٢٠٢٣/١٠/١٧ وحتى ٢٠٢٣/١٠/٣١

م	البند	الكمية السابقة		الكمية الحالية		الكمية الاجمالية		ملاحظات
		٣م	٣م	٣م	٣م	٣م	٣م	
١	أعمال حفر	٢٢٧٤٧٥,٧٥	٠,٠٠	٢٢٧٤٧٥,٧٥	٢٢٧٤٧٥,٧٥	٢٢٧٤٧٥,٧٥	كمية اجمالية بدون تصنيف اجهادات	
٢	أعمال ردم	١٠٧٧٦٧,٠٠	٢٩٧٦١,٦٧	١٣٧٥٢٨,٦٧	١٣٧٥٢٨,٦٧	١٣٧٥٢٨,٦٧	بدون تحديد مسافة نقل	

مهندس الهيئة
التوقيع/





محضر اعتماد كميات



التاريخ : 31 - 10 - 2023

اسم المشروع: مشروع القطار السريع (العين السخنة - العلمين)

قامت شركة اكس واي زد (XYZ) للأعمال المساحية (استشارى الاعمال المساحية لهيئة الطرق والكبارى)

باعتتماد الكميات المنفذة الخاصة بشركة: مكة البركة للمقاولات

م	من المحطة رقم	الى المحطة رقم	التصنيف	الكمية بالمتر المكعب	ملاحظات
1	94+556 95+040 95+760	94+780 95+440 96+455	اعمال حفر	1,433,975.70	كمية اجمالية بدون تصنيف اجهادات وتم الحصر على (REV-31)
2	94+780 95+460	95+040 95+740	اعمال ردم	278,061.63	بدون تحديد مسافة النقل
3	94+940	95+040	اعمال حفر	16,230	إزالة اعمال ردم تمت على REV-30 للوصول لمنسوب التصميم الحالي
4	94+920 95+620	95+080 95+720	اعمال ردم	24,065	بدون تحديد مسافة النقل وتم الحصر على (REV-30)

• ملاحظات: -

- إجمالي حصر القطاع حتى تاريخه.

• المرفقات: -

1- محضر استلام (As-built) اعمال الحفر والردم.

2- قطاعات عرضية موضح عليها الحصر.

3- جدول اكسل موضح عليه كمية كل قطاع.

مهندس الهيئة



استشارى المساحة

مهندس الشركة المنفذة

أعمال الجسر الترابي والأعمال الصناعية بقطاع العاصمة الإدارية ضمن مشروع القطار الكهربائي السريع (السفحة - العاصمة الإدارية - العلمين الجديدة)
المسافة من كم ٩٤,٥٥٥,٤٢ حتى كم ٩٦,٤٥٥,٤٢ بطول ١,٩ كم (اتجاه النيل)
(المنطقة المركزية)
أعمال مستخلص جاري ٥

رقم البند بمقاييس	بيان الأعمال	كمية جاري ١ (م ٣)	كمية جاري ٢ (م ٣)	كمية جاري ٣ (م ٣)	كمية جاري ٤ (م ٣)	كمية جاري ٥ (م ٣)
١	أعمال الحفر بالتر المكعب أعمال حفر بالمعدات الميكانيكية في تربة صخرية ومحمل على البند ١- تحميل ونقل ناتج الحفر لمسافة لا تقل عن ٥٠٠ متر ٢- توريد تربة معادلة للمواصفات وتشغيلها باستخدام آلات السوية بسبك لا يزيد عن ٢٥ سم لاستكمال التسوية التشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٠%) ورشها بالماء الاصطناعي للوصول إلى نسبة الرطوبة المطلوبة والدعاك الجيد بالهراست للوصول إلى أقصى كثافة جافة (٩٥%) من الكثافة الجافة القصوى. ويتم التنفيذ طبقاً للتسويات التصميمية والمقاييس العرضية النموذجية والرسومات التنفيذية المعتمدة والبند يجمع مشتلاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندسين المشرفين. ذات اجهاد (٢٠٠ - ١٠٠٠) كجم / سم ٢ ذات اجهاد (٢٠٠ - ٢٠٠) كجم / سم ٢ ذات اجهاد (٤٠٠ - ٣٠٠) كجم / سم ٢ ومحمل على البند الأتي ١ - تحميل ونقل ناتج الحفر بمسافة لا تقل عن ٥٠٠ م ٢ - ارتكاز الصول الجانبيه باستخدام المعدات الميكانيكية	٧٩٧٢,٠٠٠	١٦٤٦,٠٠٠	١٦٤٦٢٨,٠٠٠		
٢-١	أعمال تحريم ونسف بالتر المكعب أعمال تحريم ونسف طبقاً للتسويات التصميمية في تربة صخرية صلبة ذات اجهاد يزيد عن ١٠٠ كجم/سم ٢ (والجانب طبقاً لمعيار السنف على ان يتم تحميل ونقل ناتج السنف مسافة لا تقل عن ٥٠٠ متر من محور الطريق وتوريد طبقاً من الرط أو السن المتدرج مقاومة للتوسعات وتشغيلها باستخدام آلات السوية بسبك لا يزيد عن ٢٥ سم لإستكمال التسوية التصميمية لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٥%) ورشها بالماء الاصطناعي للوصول إلى نسبة الرطوبة المطلوبة والدعاك الجيد بالهراست للوصول إلى أقصى كثافة جافة (٩٥%) من الكثافة الجافة القصوى (مع اتباع كافة الشروط الواردة بقراسة المواصفات المعتمدة من قبل إشرافى المشروع ويتم التنفيذ طبقاً للتسويات التصميمية والمقاييس العرضية النموذجية والرسومات التصميمية المعتمدة والبند يجمع مشتلاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندسين المشرفين.	٥١٩٠,٣٧٥	٢٣٣٥٢,٠٠٠			
٣	أعمال الردم بالتر المكعب أعمال تحميل وتوريد ونقل التربة صالحة الردم معادلة للمواصفات وتشغيلها باستخدام آلات السوية بسبك لا يزيد عن ٥٠ سم حتى مسلوب ٢٠ متر وسبك لا يزيد عن ٢٥ سم لاستكمال التسوية التصميمية لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٥%) ورشها بالماء الاصطناعي للوصول إلى نسبة الرطوبة المطلوبة والدعاك الجيد بالهراست للوصول إلى أقصى كثافة جافة (٩٥%) من الكثافة الجافة القصوى. ويتم التنفيذ طبقاً للتسويات التصميمية والمقاييس العرضية النموذجية والرسومات التنفيذية المعتمدة والبند يجمع مشتلاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندسين المشرفين. ١- في حالة طلب جهاز الإشراف زيادة نسبة الدماك عن ٩٥ % بحسب زيادة ١ جنية على زيادة نسبة الدماك لكل ١ % ٢- مسافة النقل حتى ٢ كم ويتم احتساب علاوة ١,٤ جنية لكل كم بالزيادة أو النقصان مسافة نقل ٥٨ كم مادة محجورة					
١-٣	بالتر المكعب أعمال تحميل وتوريد ونقل التربة صالحة الردم معادلة للمواصفات وتشغيلها باستخدام آلات السوية بسبك لا يزيد عن ٥٠ سم حتى مسلوب ٢٠ متر وسبك لا يزيد عن ٢٥ سم لاستكمال التسوية التصميمية لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٥%) ورشها بالماء الاصطناعي للوصول إلى نسبة الرطوبة المطلوبة والدعاك الجيد بالهراست للوصول إلى أقصى كثافة جافة (٩٥%) من الكثافة الجافة القصوى. ويتم التنفيذ طبقاً للتسويات التصميمية والمقاييس العرضية النموذجية والرسومات التنفيذية المعتمدة والبند يجمع مشتلاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندسين المشرفين. ١- في حالة طلب جهاز الإشراف زيادة نسبة الدماك عن ٩٥ % بحسب زيادة ١ جنية على زيادة نسبة الدماك لكل ١ % ٢- مسافة النقل حتى ٢ كم ويتم احتساب علاوة ١,٤ جنية لكل كم بالزيادة أو النقصان ٣- السعر يشمل عمل كشوريات وتعليقها واختبارات ونقل لواقع العمل حتى مسافة ٣ كم.					
٢-٣	بالتر المكعب أعمال تحميل وتوريد ونقل التربة صالحة الردم معادلة للمواصفات وتشغيلها باستخدام آلات السوية بسبك لا يزيد عن ٥٠ سم حتى مسلوب ٢٠ متر وسبك لا يزيد عن ٢٥ سم لاستكمال التسوية التصميمية لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٥%) ورشها بالماء الاصطناعي للوصول إلى نسبة الرطوبة المطلوبة والدعاك الجيد بالهراست للوصول إلى أقصى كثافة جافة (٩٥%) من الكثافة الجافة القصوى. ويتم التنفيذ طبقاً للتسويات التصميمية والمقاييس العرضية النموذجية والرسومات التنفيذية المعتمدة والبند يجمع مشتلاته طبقاً لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندسين المشرفين. ١- في حالة طلب جهاز الإشراف زيادة نسبة الدماك عن ٩٥ % بحسب زيادة ١ جنية على زيادة نسبة الدماك لكل ١ % ٢- مسافة النقل حتى ٢ كم ويتم احتساب علاوة ١,٤ جنية لكل كم بالزيادة أو النقصان ٣- السعر يشمل عمل كشوريات وتعليقها واختبارات ونقل لواقع العمل حتى مسافة ٣ كم.					

مكة البرية للتجارة والبناء





محضر معاينة و قياس مسافة توريد تربة الى الموقع

مشروع القطار الكهربائي السريع - (السخنة- العاصمة الادارية -العلمين الجديدة-مطروح)

في المسافة من (٩٤+٥٥٥ الي ٩٦+٤٥٥) تنفيذ شركة مكة البركة للمقاولات التوريدات

انه في يوم الاثنين الموافق ٢٠٢٣/١٠/٢ اجتمعت اللجنة بحضور كلا من :-

- | | |
|---------------------|---|
| ١- م/ محمد غاندي | (ممثل الهيئة العامة للطرق و الكباري) (المالك) |
| ٢- م / معاذ العجوز | (مهندس استشاري سيسترا) (الاستشاري العام) |
| ٣- م/ محمد سعيد | (مهندس مكتب اسبكتروم) (الاستشاري) |
| ٤- م / احمد الضويني | (ممثل مكتب اكس واي زد) (استشاري المساحة) |
| ٥- م/ عمرو عادل | (مهندس الشركة المنفذة) |



و قامت اللجنة بالمرور علي الموقع و بالمعاينة تبين ان المسافة المتوسطة بين  (م.م.ع) المورد

منها (تربة) و محور القطاع هي (٥٨ كم) (ثمانية و خمسون كيلومتر) و ذلك طبقا للمسار (موقع الكسارة - المشون-

محور القطاع)

و الاحداثيات كالتالي (E:625316,045 N:795776,090) بطريق (الوسطي + الفيوم)
(Longitude: 31°06'24,40" ; Latitude: 29°52'17,91")

و أقفل المحضر علي ذلك

اللجنة :-

التوقيع :-


١- م/ محمد غاندي



٢- م/ معاذ العجوز



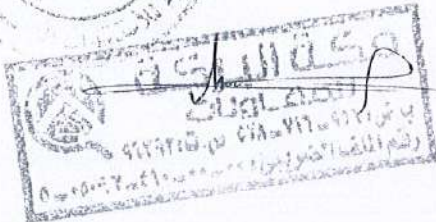
٣- م/ محمد سعيد



٤- م/ احمد الضويني



٥- م/ عمرو عادل



Volume Report

Date: 31/10/2023 02:55:19 م

Aignment: TRAIN LINE

Sample Line Group: TRAIN SAMPLE LINE

Start Sta: 94+500

End Sta: 96+455.42

Station	Cut Volume (Cu.M.)	Cum. Cut Vol. (Cu.M.)	Fill Volume (Cu.M.)	Cum. Fill Vol. (Cu.M.)
94+500.00	0	0	0	0
94+520.00	1,884.92	1,884.92	245.65	245.65
94+540.00	5,278.34	7,163.27	245.86	491.52
94+560.00	8,497.49	15,660.76	0	491.52
94+580.00	11,069.47	26,730.22	0	491.52
94+600.00	11,918.43	38,648.65	0	491.52
94+620.00	10,163.34	48,811.99	0	491.52
94+640.00	6,937.40	55,749.39	0	491.52
94+660.00	4,756.96	60,506.35	32.86	524.38
94+680.00	5,527.28	66,033.63	32.86	557.24
94+700.00	8,255.82	74,289.45	0	557.24
94+720.00	7,507.55	81,797.00	0	557.24
94+740.00	4,461.72	86,258.73	0	557.24
94+760.00	2,787.67	89,046.40	9.17	566.41
94+780.00	1,359.65	90,406.05	159.27	725.67
94+800.00	285.2	90,691.25	800.85	1,526.52
94+820.00	0	90,691.25	2,839.11	4,365.63
94+840.00	0	90,691.25	5,136.71	9,502.34
94+860.00	0	90,691.25	5,645.05	15,147.39
94+880.00	0	90,691.25	4,781.06	19,928.45
94+900.00	0	90,691.25	3,659.75	23,588.21
94+920.00	0	90,691.25	2,483.07	26,071.28
94+940.00	0	90,691.25	1,379.95	27,451.23
94+960.00	0	90,691.25	773.29	28,224.53
94+980.00	0.41	90,691.66	479.96	28,704.49
95+000.00	0.41	90,692.06	529.49	29,233.98
95+020.00	0	90,692.06	547.09	29,781.07
95+040.00	821.6	91,513.67	196.54	29,977.61
95+060.00	2,345.48	93,859.15	0	29,977.61
95+080.00	3,713.59	97,572.74	0	29,977.61
95+100.00	5,120.11	102,692.85	0	29,977.61
95+120.00	6,693.17	109,386.02	0	29,977.61
95+140.00	8,613.62	117,999.64	0	29,977.61



مشروع التفتيش السريع
 ت: ٨٩٢٩١ إستشار القاهرة
 ب ف: ٢٩٧ ٢٢٢ ٥١١ ب ف: ٢٢٢



Station	Cut Volume (Cu.M.)	Cum. Cut Vol. (Cu.M.)	Fill Volume (Cu.M.)	Cum. Fill Vol. (Cu.M.)
95+160.00	10,151.89	128,151.54	0	29,977.61
95+180.00	10,415.28	138,566.82	0	29,977.61
95+200.00	10,061.54	148,628.36	0	29,977.61
95+220.00	9,749.36	158,377.72	0	29,977.61
95+240.00	9,907.67	168,285.39	0	29,977.61
95+260.00	10,092.41	178,377.80	0	29,977.61
95+280.00	10,702.98	189,080.78	0	29,977.61
95+300.00	11,619.50	200,700.28	0	29,977.61
95+320.00	12,019.31	212,719.59	0	29,977.61
95+340.00	12,534.27	225,253.86	0	29,977.61
95+360.00	12,973.34	238,227.20	0	29,977.61
95+380.00	12,993.31	251,220.52	0	29,977.61
95+400.00	12,228.23	263,448.75	0	29,977.61
95+420.00	11,236.51	274,685.26	0	29,977.61
95+440.00	9,378.54	284,063.80	0	29,977.61
95+460.00	4,546.45	288,610.24	562.1	30,539.71
95+480.00	614.43	289,224.68	10,296.43	40,836.14
95+500.00	0	289,224.68	27,174.16	68,010.29
95+520.00	0	289,224.68	35,296.17	103,306.46
95+540.00	0	289,224.68	33,283.92	136,590.39
95+560.00	0	289,224.68	26,991.78	163,582.17
95+580.00	0	289,224.68	15,646.43	179,228.60
95+600.00	1291.54	290,516.22	6,950.06	186,178.66
95+620.00	3553.17	294,069.40	6,220.29	192,398.95
95+640.00	4579.43	298,648.83	4,950.66	197,349.61
95+660.00	2317.8	300,966.63	8,033.66	205,383.27
95+680.00	0	300,966.63	18,713.62	224,096.89
95+700.00	0	300,966.63	24,058.34	248,155.23
95+720.00	0	300,966.63	20,843.28	268,998.51
95+740.00	0	300,966.63	9,063.12	278,061.63
95+760.00	3,916.33	304,882.96	0	278,061.63
95+780.00	13,429.60	318,312.56	0	278,061.63
95+800.00	22,439.44	340,751.99	0	278,061.63
95+820.00	25,358.81	366,110.81	0	278,061.63
95+840.00	24,499.72	390,610.53	0	278,061.63
95+860.00	24,758.32	415,368.85	0	278,061.63
95+880.00	25,845.47	441,214.32	0	278,061.63
95+900.00	28,043.01	469,257.34	0	278,061.63
95+920.00	32,127.99	501,385.32	0	278,061.63
95+940.00	35,360.03	536,745.36	0	278,061.63
95+960.00	36,534.27	573,279.63	0	278,061.63
95+980.00	37,147.60	610,427.23	0	278,061.63
96+000.00	38,187.38	648,614.61	0	278,061.63
96+020.00	38,162.15	686,776.75	0	278,061.63
96+040.00	37,490.11	724,266.86	0	278,061.63
96+060.00	36,784.96	761,051.83	0	278,061.63
96+080.00	33,741.45	794,793.28	0	278,061.63
96+100.00	39,125.87	823,919.14	0	278,061.63



مشروع التطوير العمراني
س ت : ٨٩٢٩١
ب من : ٢٩٧ ٢٢٢ ٥١١ م من : ٢٥٢ ١٥٠

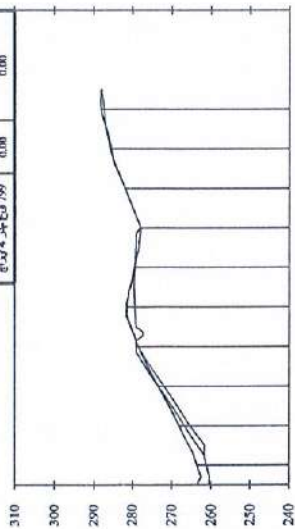


Station	Cut Volume (Cu.M.)	Cum. Cut Vol. (Cu.M.)	Fill Volume (Cu.M.)	Cum. Fill Vol. (Cu.M.)
96+120.00	27,902.95	851,822.09	0	278,061.63
96+140.00	29,656.22	881,478.31	0	278,061.63
96+160.00	30,051.42	911,529.73	0	278,061.63
96+180.00	29,636.32	941,166.06	0	278,061.63
96+200.00	32,558.82	973,724.88	0	278,061.63
96+220.00	30,997.84	1,004,722.72	0	278,061.63
96+240.00	27,459.50	1,032,182.22	0	278,061.63
96+260.00	30,336.65	1,062,518.87	0	278,061.63
96+280.00	32,898.77	1,095,417.64	0	278,061.63
96+300.00	34,662.64	1,130,080.28	0	278,061.63
96+320.00	35,883.71	1,165,963.99	0	278,061.63
96+340.00	33,163.21	1,199,127.20	0	278,061.63
96+360.00	34,790.75	1,233,917.95	0	278,061.63
96+380.00	41,772.34	1,275,690.28	0	278,061.63
96+400.00	44,401.26	1,320,091.54	0	278,061.63
96+420.00	44,850.15	1,364,941.69	0	278,061.63
96+440.00	45,658.61	1,410,600.30	0	278,061.63
96+455.42	36,237.69	1,446,837.99	0	278,061.63



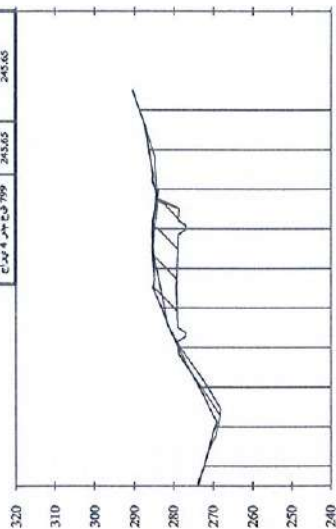
Material(s) at Station 94+500.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	0.00	0.00
رمل و حصى ٦٠/٨٠	0.00	0.00

94+500.00



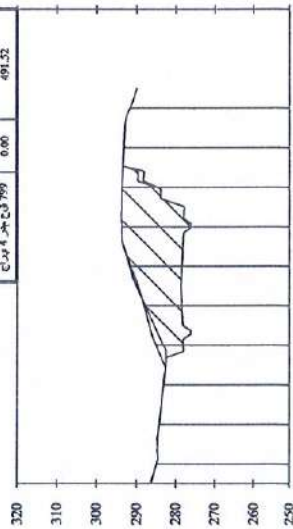
Material(s) at Station 94+520.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	1884.92	1884.92
رمل و حصى ٦٠/٨٠	245.65	245.65

94+520.00



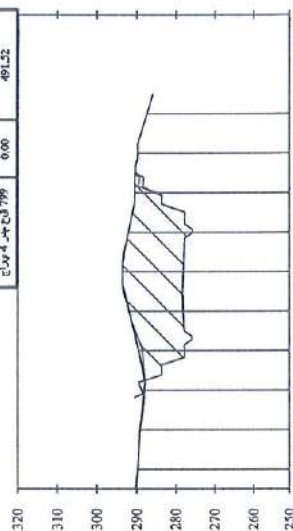
Material(s) at Station 94+560.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	8407.49	15660.76
رمل و حصى ٦٠/٨٠	0.00	491.52

94+560.00



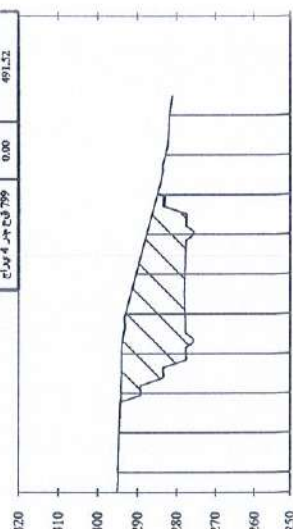
Material(s) at Station 94+580.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	11069.47	26730.22
رمل و حصى ٦٠/٨٠	0.00	491.52

94+580.00



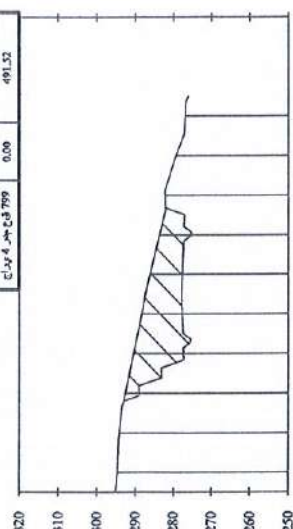
Material(s) at Station 94+600.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	11918.43	38648.65
رمل و حصى ٦٠/٨٠	0.00	491.52

94+600.00



Material(s) at Station 94+620.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	10163.34	48811.99
رمل و حصى ٦٠/٨٠	0.00	491.52

94+620.00



Material(s) at Station 94+640.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	6077.40	54889.39
رمل و حصى ٦٠/٨٠	0.00	491.52

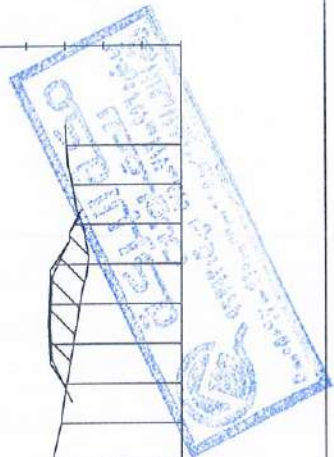
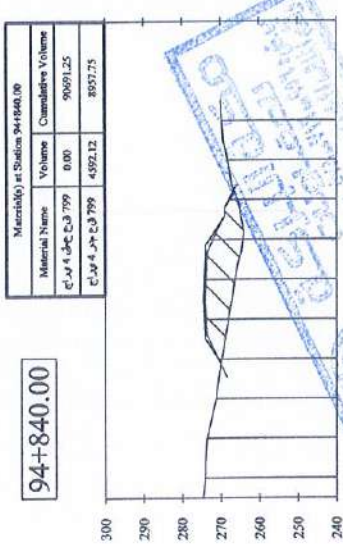
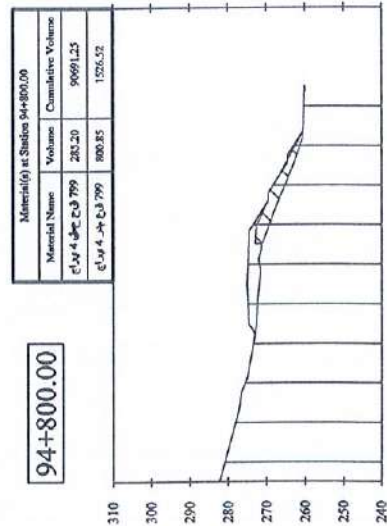
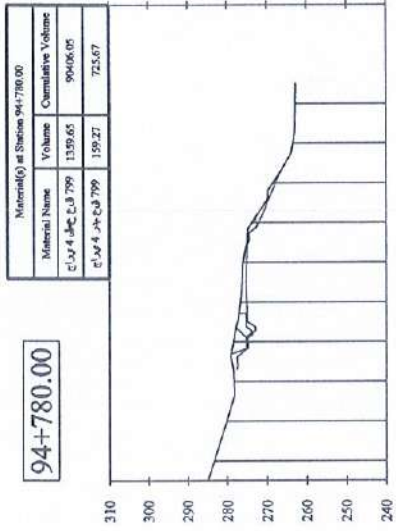
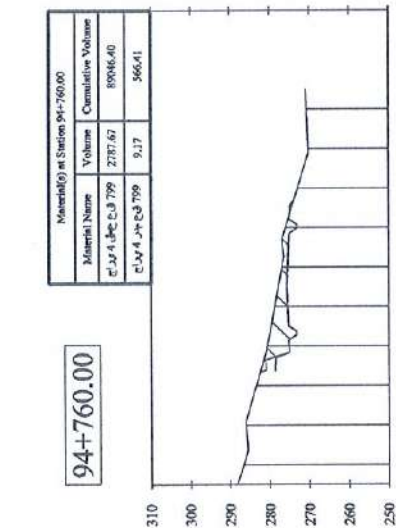
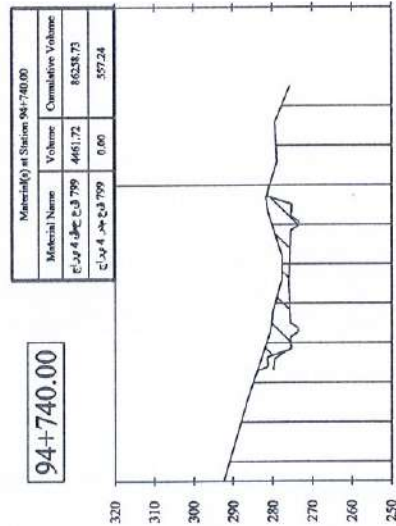
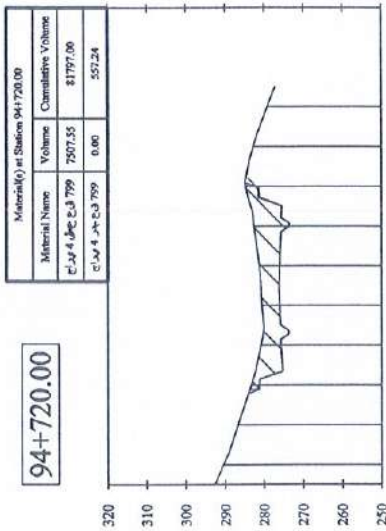
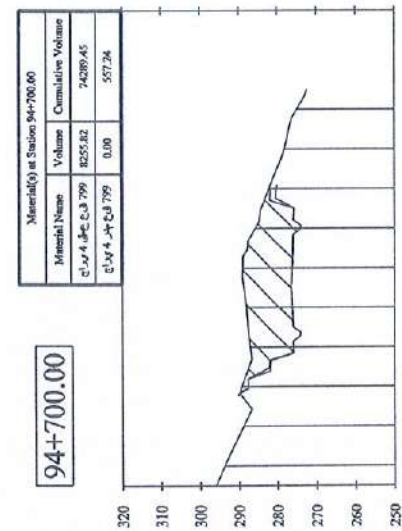
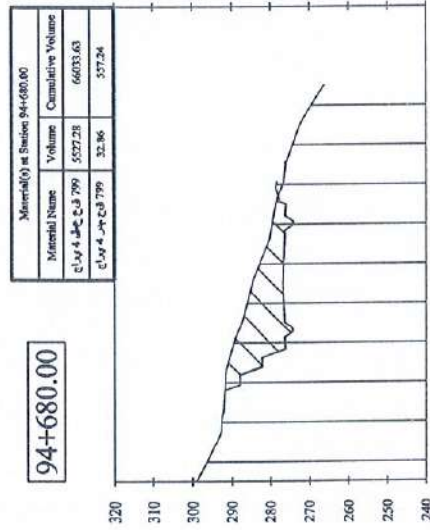
94+640.00

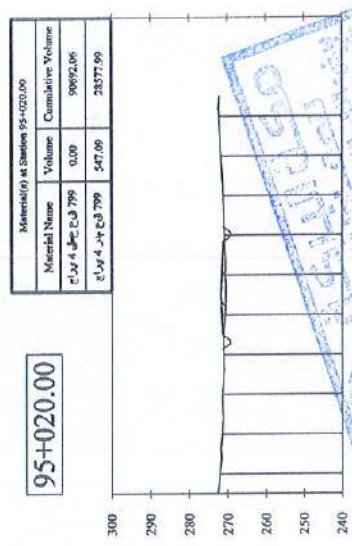
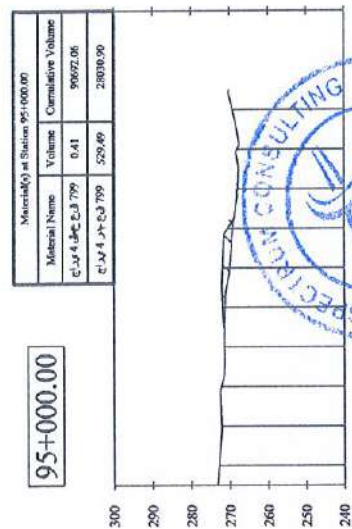
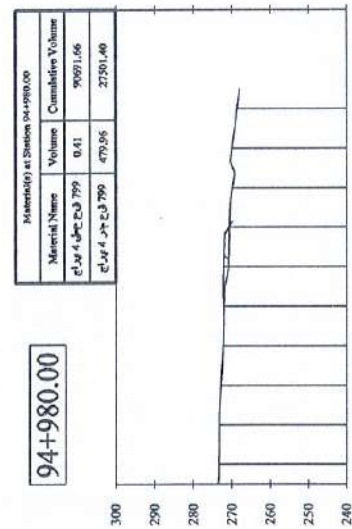
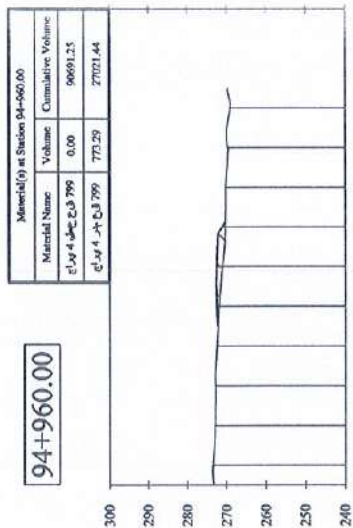
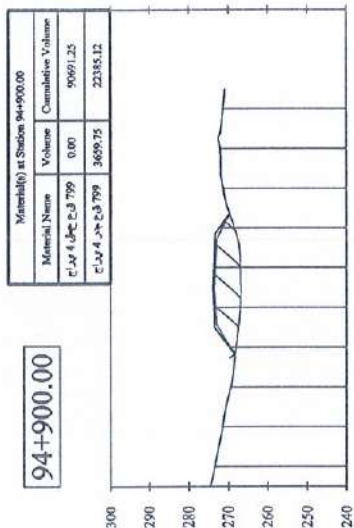
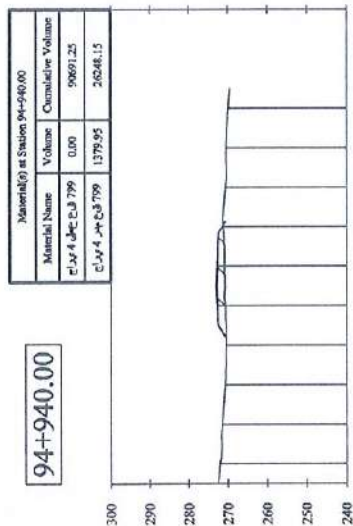
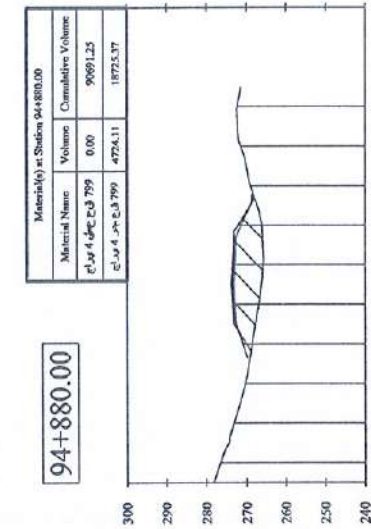
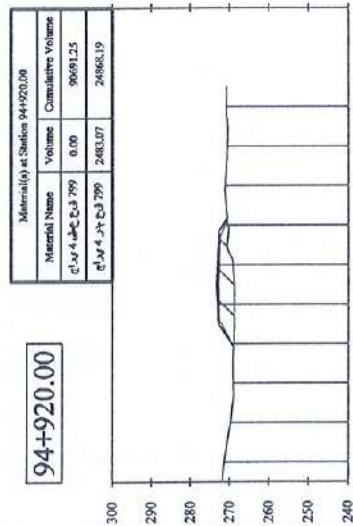
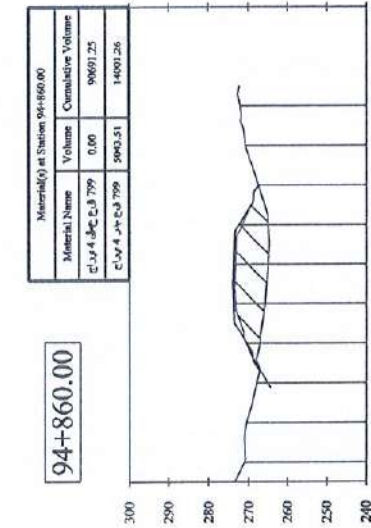


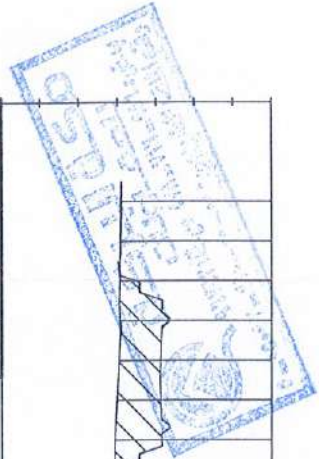
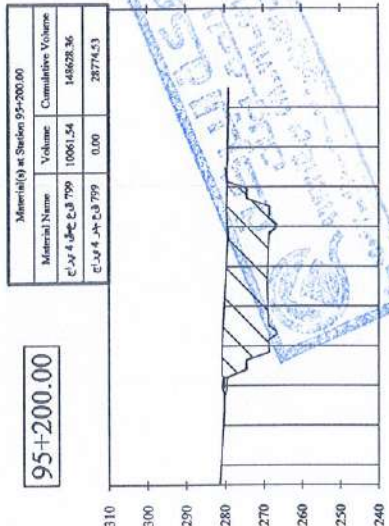
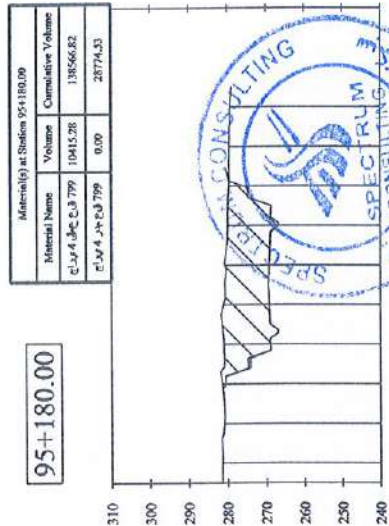
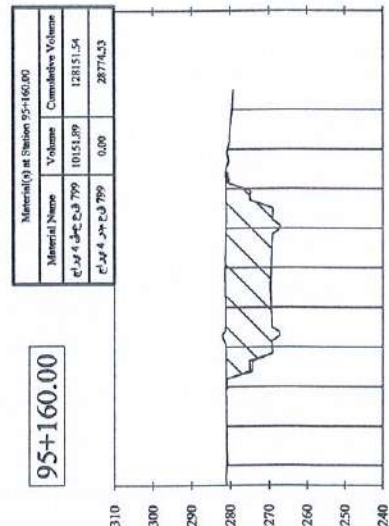
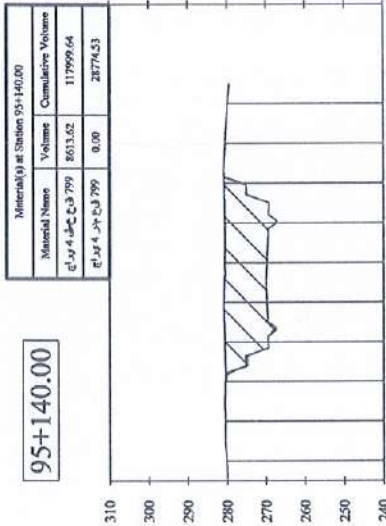
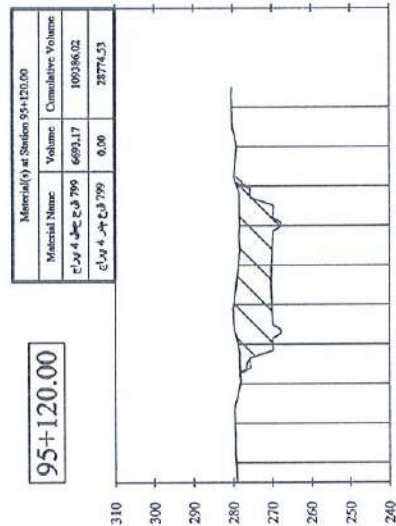
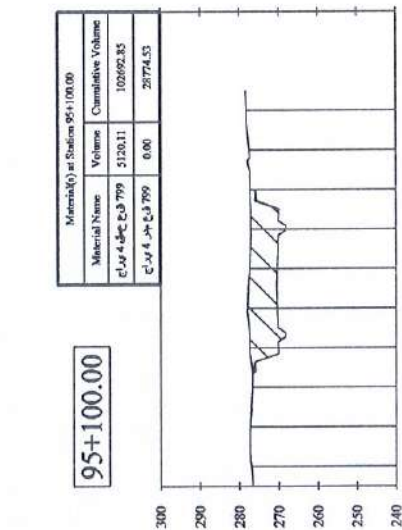
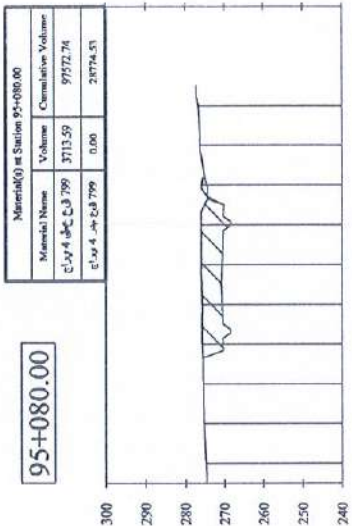
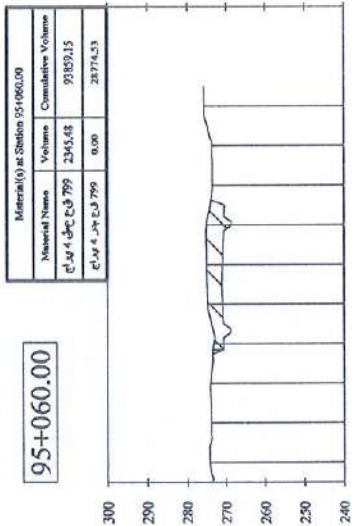
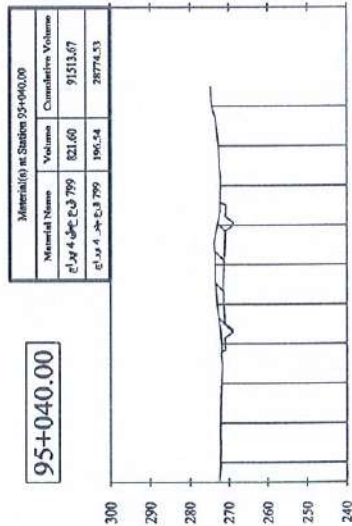
Material(s) at Station 94+660.00		
Material Name	Volume	Cumulative Volume
رمل و حصى ٤٠/٦٠	4756.96	60506.35
رمل و حصى ٦٠/٨٠	32.66	524.18

94+660.00



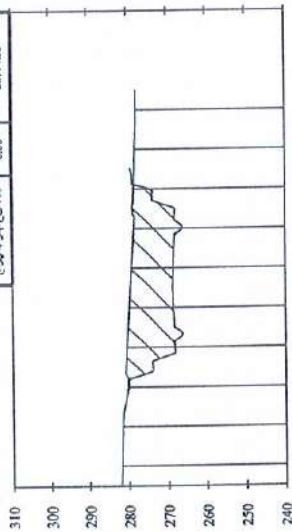






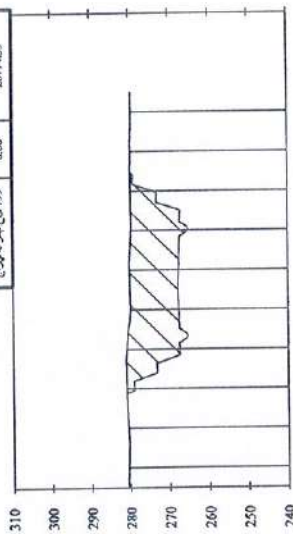
Material(s) at Station 95+220.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	9949.36	158377.22
رمل 4 مم	0.00	28774.53

95+220.00



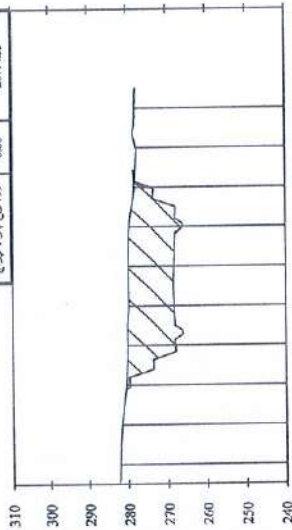
Material(s) at Station 95+280.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	10702.98	199080.78
رمل 4 مم	0.00	28774.53

95+280.00



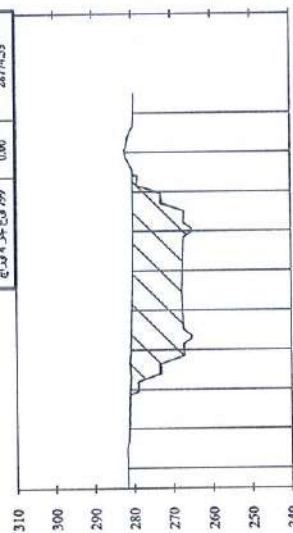
Material(s) at Station 95+240.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	9907.67	168285.39
رمل 4 مم	0.00	28774.53

95+240.00



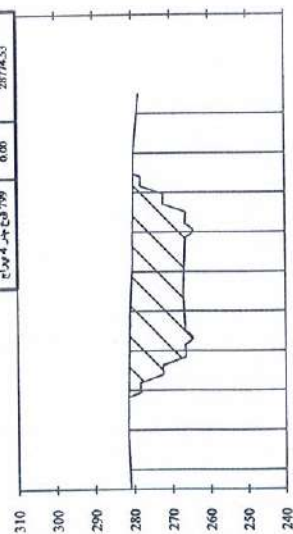
Material(s) at Station 95+300.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	11819.59	209708.28
رمل 4 مم	0.00	28774.53

95+300.00



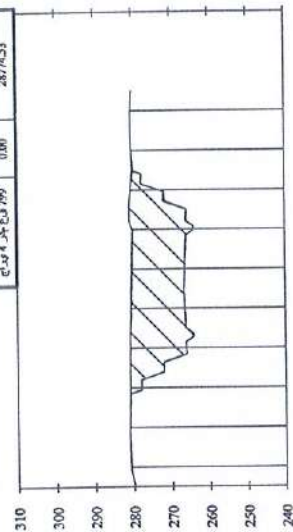
Material(s) at Station 95+340.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	12334.27	222033.86
رمل 4 مم	0.00	28774.53

95+340.00



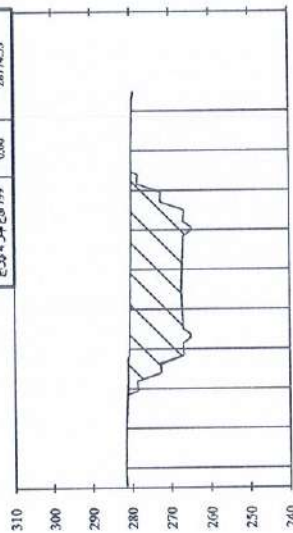
Material(s) at Station 95+360.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	12973.34	235027.20
رمل 4 مم	0.00	28774.53

95+360.00



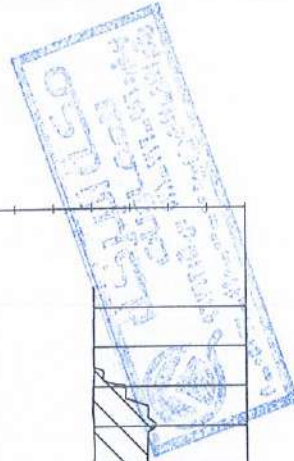
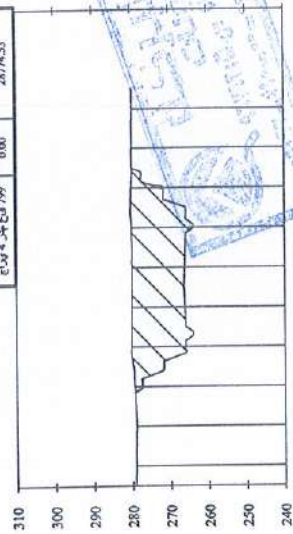
Material(s) at Station 95+320.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	12019.31	212719.59
رمل 4 مم	0.00	28774.53

95+320.00

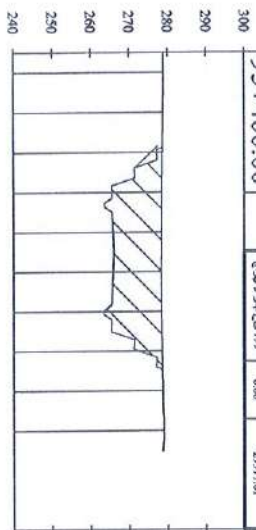


Material(s) at Station 95+380.00		
Material Name	Volume	Cumulative Volume
رمل 4 مم	12893.31	231220.52
رمل 4 مم	0.00	28774.53

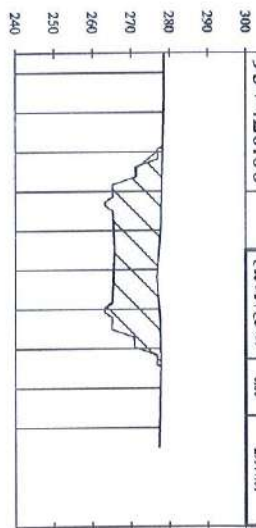
95+380.00



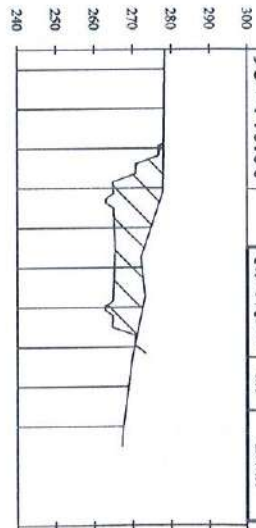
Material(s) at Station 95+400.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	1228.23	20548.75	
CLAY 5.0% C.B 709	0.00	20977.61	



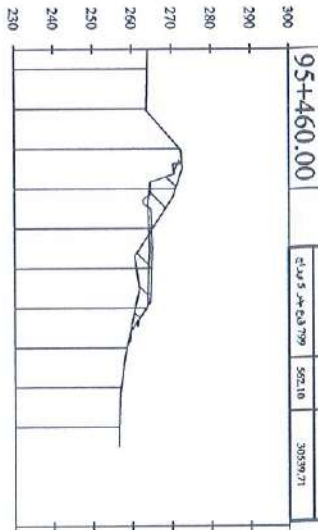
Material(s) at Station 95+420.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	11256.51	27685.26	
CLAY 5.0% C.B 709	0.00	28977.61	



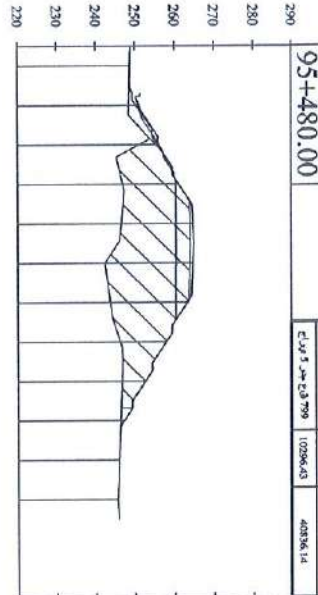
Material(s) at Station 95+440.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	9378.54	28063.80	
CLAY 5.0% C.B 709	0.00	28977.61	



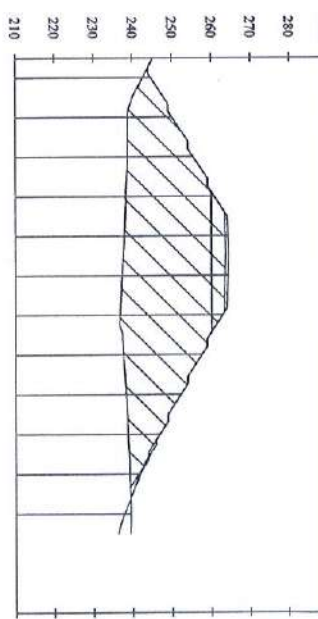
Material(s) at Station 95+460.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	4566.45	28810.24	
CLAY 5.0% C.B 709	552.10	30359.71	



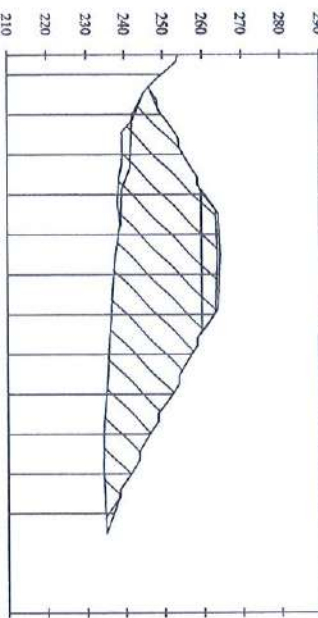
Material(s) at Station 95+480.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	614.43	28922.48	
CLAY 5.0% C.B 709	10296.43	40816.14	



Material(s) at Station 95+500.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	0.00	28922.48	
CLAY 5.0% C.B 709	22724.16	60010.29	



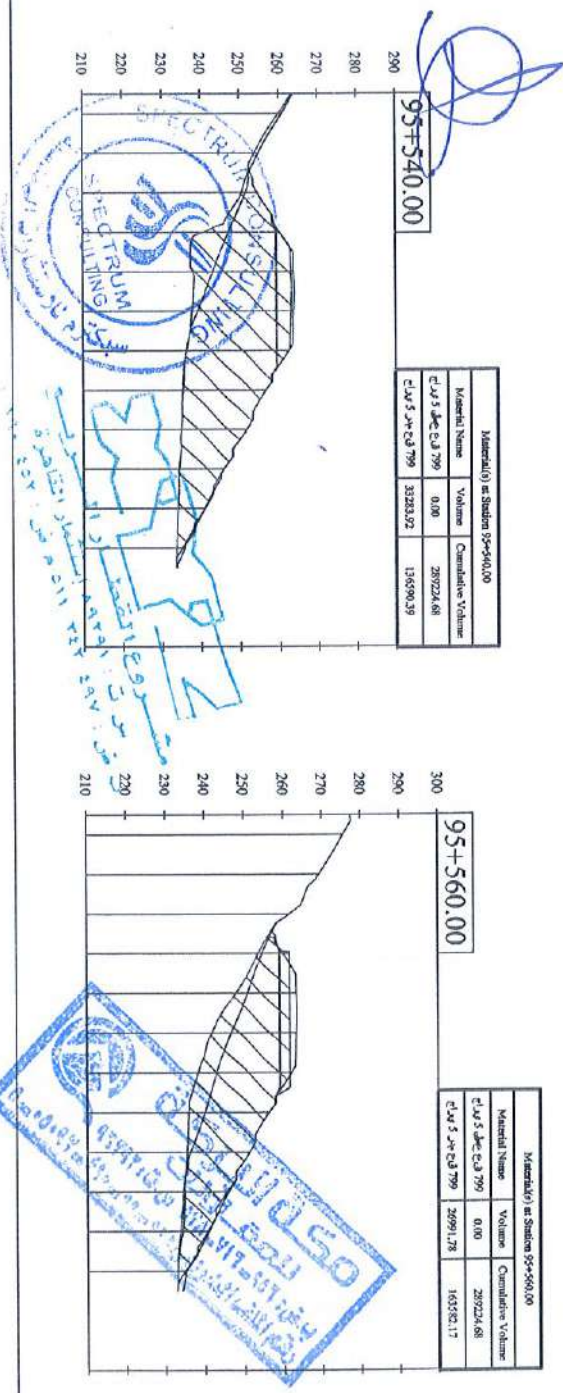
Material(s) at Station 95+520.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	0.00	28922.48	
CLAY 5.0% C.B 709	35296.17	103006.46	



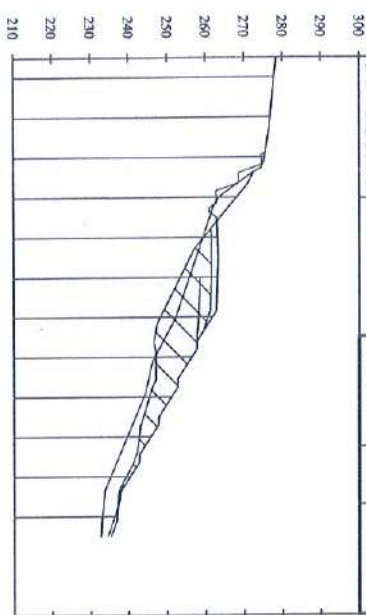
Material(s) at Station 95+540.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	0.00	28922.48	
CLAY 5.0% C.B 709	33283.92	134590.39	



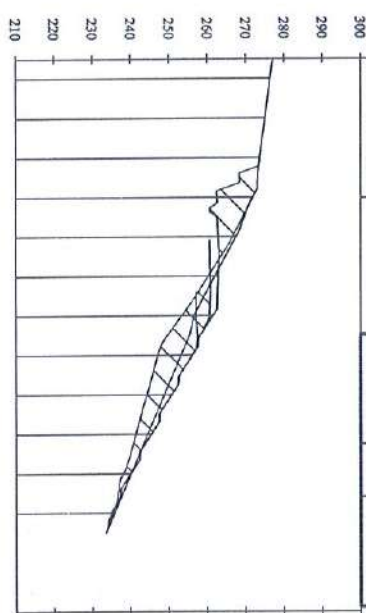
Material(s) at Station 95+560.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 709	0.00	28922.48	
CLAY 5.0% C.B 709	26991.78	165582.17	



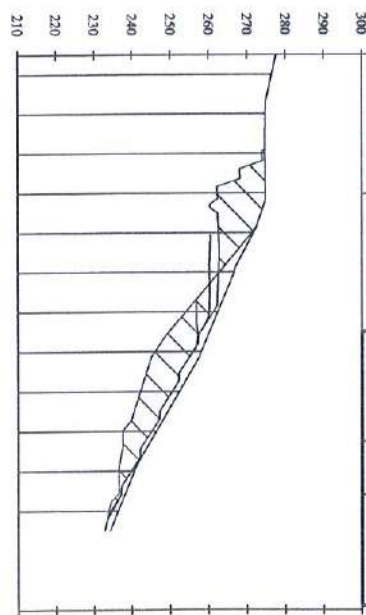
Material(s) at Station 95+580.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	0.00	289224.68	
CLAY 5.0% C.B 799	15664.63	179228.60	



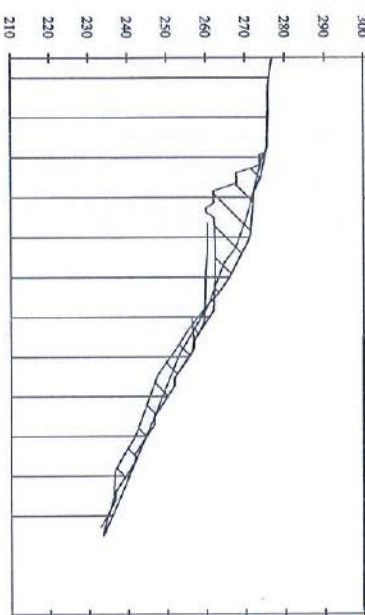
Material(s) at Station 95+600.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	1291.54	290516.22	
CLAY 5.0% C.B 799	8953.06	186173.66	



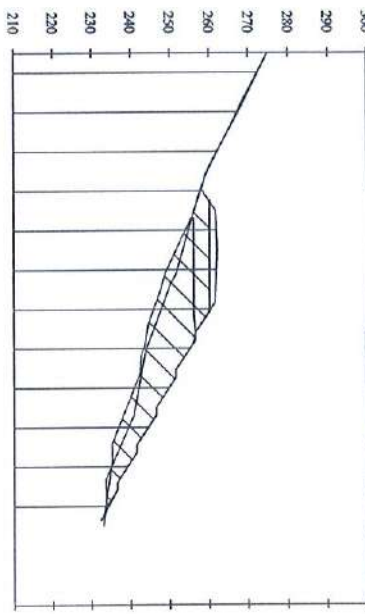
Material(s) at Station 95+620.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	3553.17	294069.40	
CLAY 5.0% C.B 799	6220.29	192298.95	



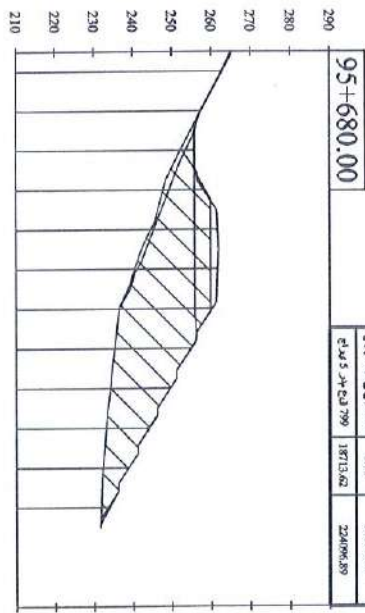
Material(s) at Station 95+640.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	4579.43	298648.83	
CLAY 5.0% C.B 799	4650.66	197349.61	



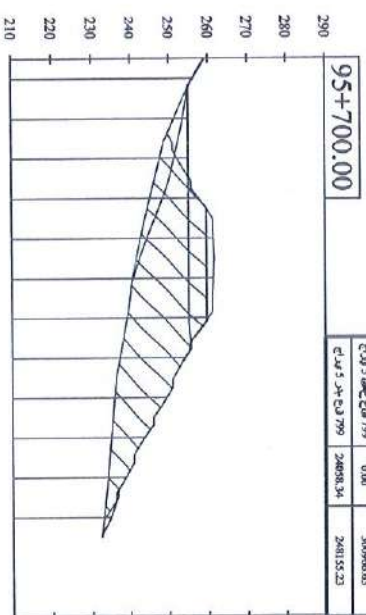
Material(s) at Station 95+660.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	2317.80	300966.63	
CLAY 5.0% C.B 799	8953.66	205383.27	



Material(s) at Station 95+680.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	0.00	300966.63	
CLAY 5.0% C.B 799	18713.62	224096.89	



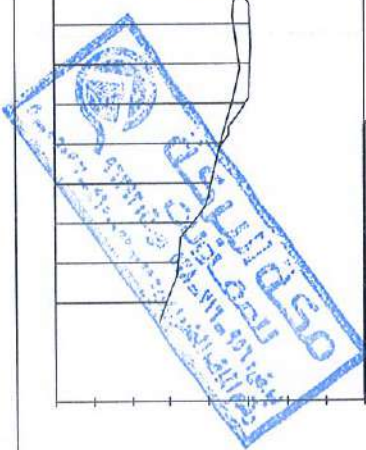
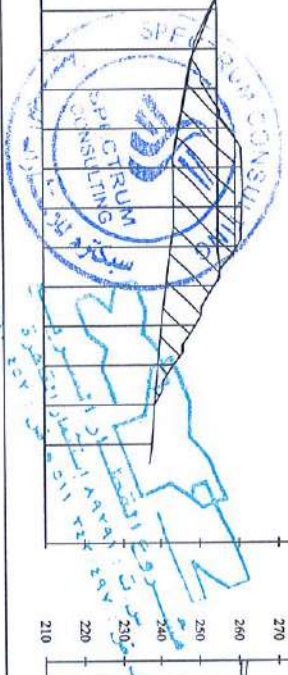
Material(s) at Station 95+700.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	0.00	300966.63	
CLAY 5.0% C.B 799	24658.34	248155.23	



Material(s) at Station 95+720.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	0.00	300966.63	
CLAY 5.0% C.B 799	20843.28	248999.51	

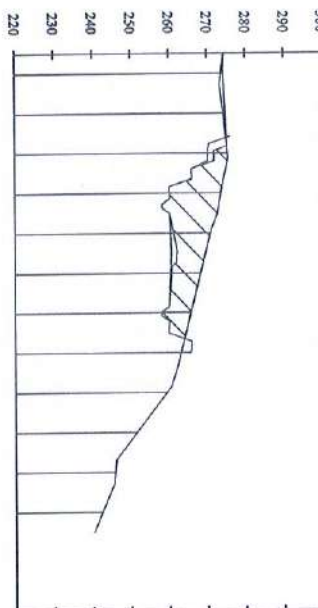


Material(s) at Station 95+740.00			
Material Name	Volume	Cumulative Volume	
CLAY 5.0% C.B 799	0.00	300966.63	
CLAY 5.0% C.B 799	9063.12	278961.63	



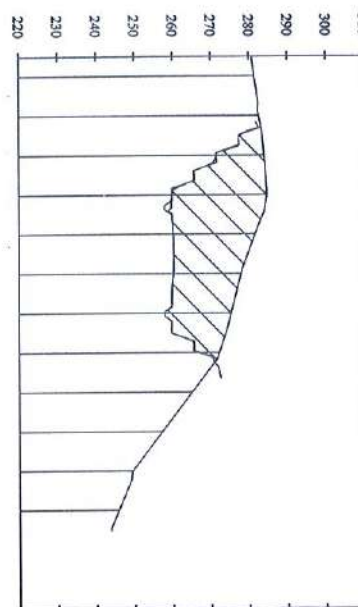
95+760.00

Material(s) at Station 95+760.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	3916.33	30482.96
CLAY 5 @C.B 799	0.00	278061.63



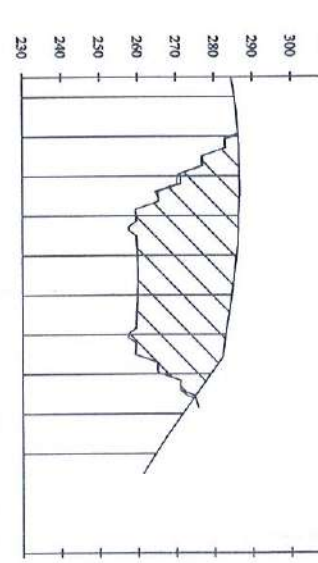
95+780.00

Material(s) at Station 95+780.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	13420.60	318312.56
CLAY 5 @C.B 799	0.00	278061.63



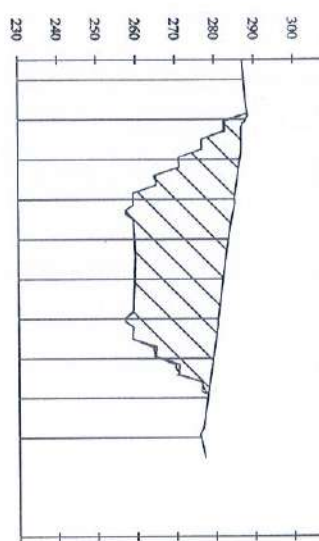
95+800.00

Material(s) at Station 95+800.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	22493.44	340751.99
CLAY 5 @C.B 799	0.00	278061.63



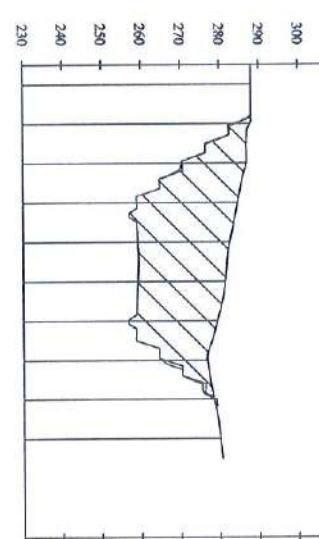
95+820.00

Material(s) at Station 95+820.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	23538.81	36410.81
CLAY 5 @C.B 799	0.00	278061.63



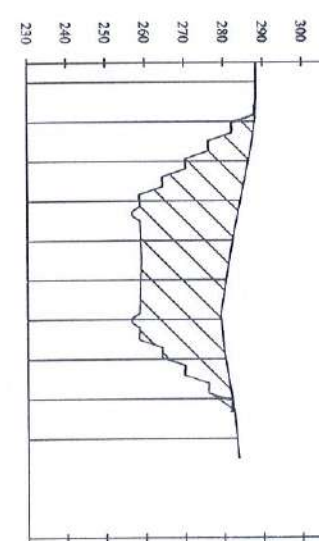
95+840.00

Material(s) at Station 95+840.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	24499.72	308610.53
CLAY 5 @C.B 799	0.00	278061.63



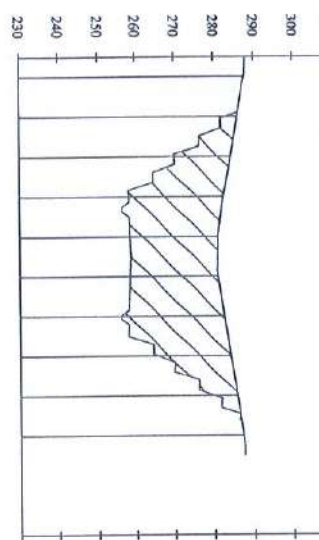
95+860.00

Material(s) at Station 95+860.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	24795.72	41380.85
CLAY 5 @C.B 799	0.00	278061.63



95+880.00

Material(s) at Station 95+880.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	28864.47	441214.32
CLAY 5 @C.B 799	0.00	278061.63



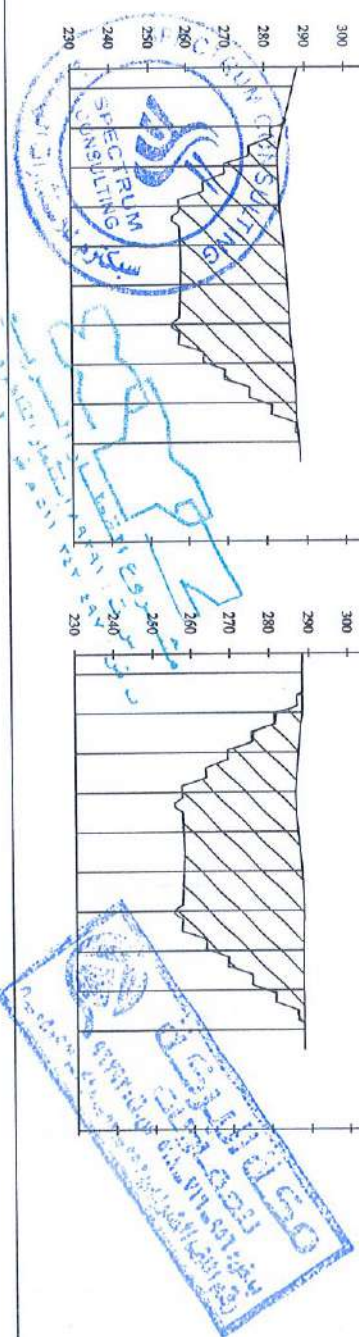
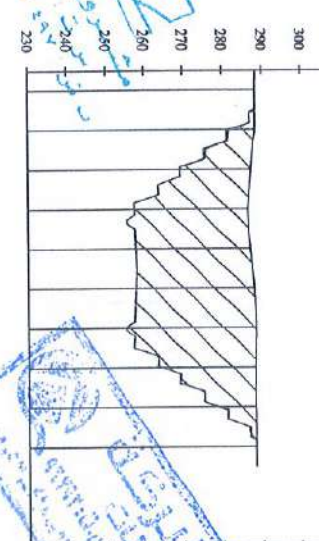
95+900.00

Material(s) at Station 95+900.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	30861.01	462075.34
CLAY 5 @C.B 799	0.00	278061.63



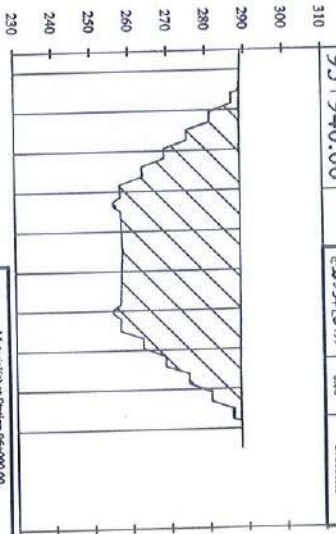
95+920.00

Material(s) at Station 95+920.00		
Material Name	Volume	Cumulative Volume
CLAY 5 @C.B 799	32127.97	501385.32
CLAY 5 @C.B 799	0.00	278061.63



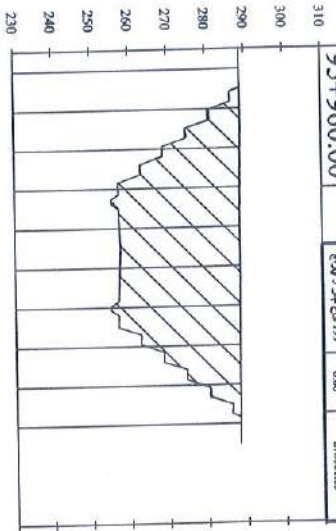
95+940.00

Material(s) at Station 95+940.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	35360.03	536745.36	
CLAY 5 LIME CUB 799	0.00	278061.63	



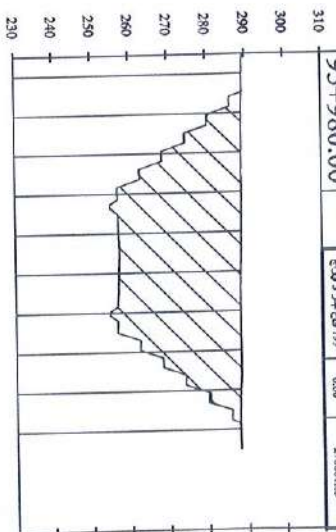
95+960.00

Material(s) at Station 95+960.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	36534.27	573279.63	
CLAY 5 LIME CUB 799	0.00	278061.63	



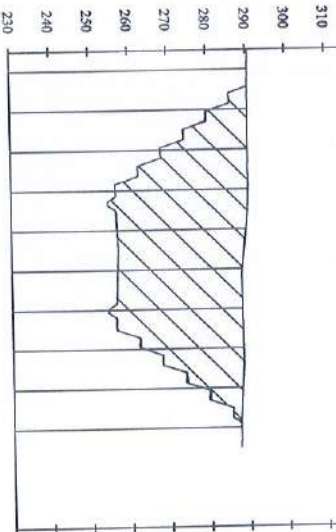
95+980.00

Material(s) at Station 95+980.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	37147.60	610427.23	
CLAY 5 LIME CUB 799	0.00	278061.63	



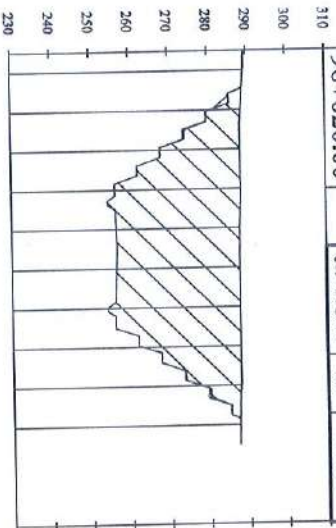
96+000.00

Material(s) at Station 96+000.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	33837.28	646614.61	
CLAY 5 LIME CUB 799	0.00	278061.63	



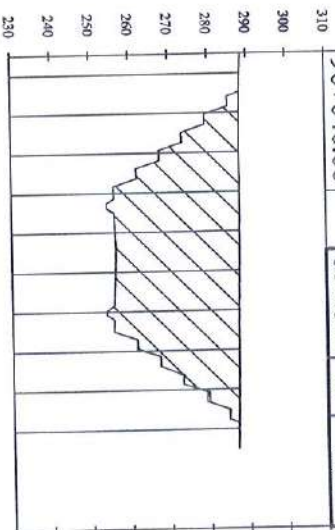
96+020.00

Material(s) at Station 96+020.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	33163.15	686776.75	
CLAY 5 LIME CUB 799	0.00	278061.63	



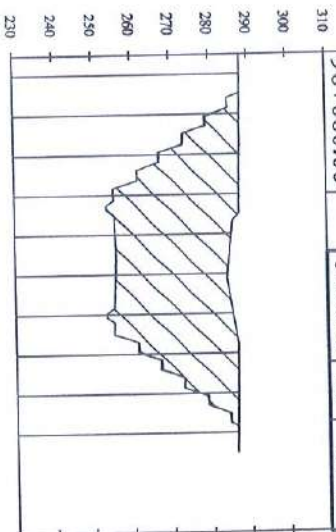
96+040.00

Material(s) at Station 96+040.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	33493.11	724266.86	
CLAY 5 LIME CUB 799	0.00	278061.63	



96+060.00

Material(s) at Station 96+060.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	36784.86	761051.83	
CLAY 5 LIME CUB 799	0.00	278061.63	



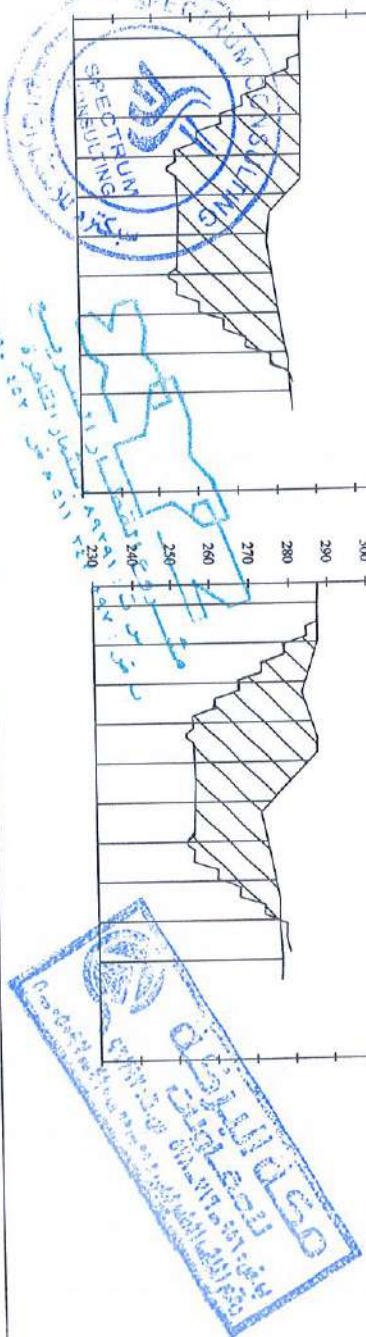
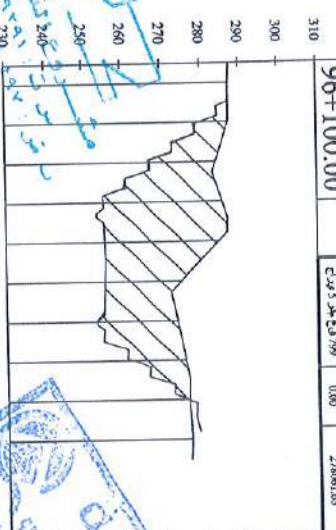
96+080.00

Material(s) at Station 96+080.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	33741.45	794793.28	
CLAY 5 LIME CUB 799	0.00	278061.63	



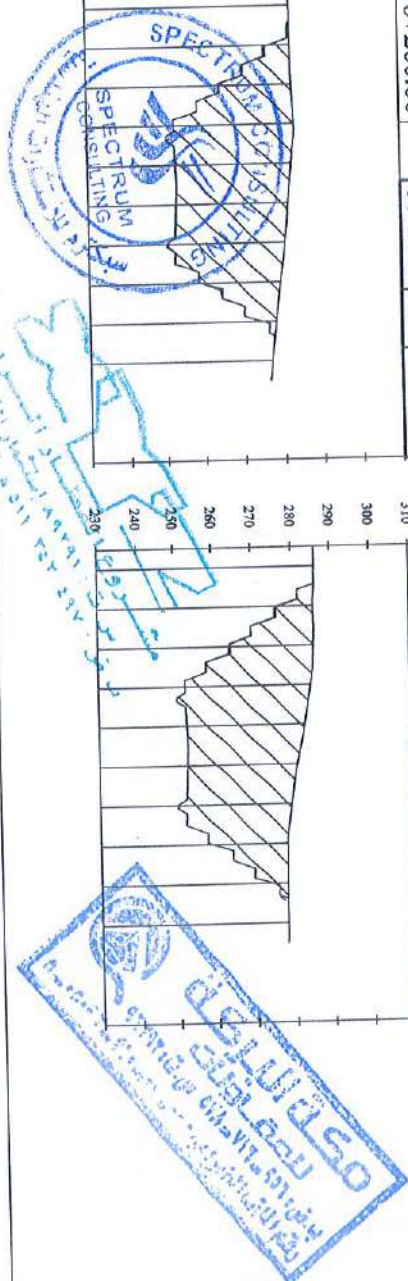
96+100.00

Material(s) at Station 96+100.00			
Material Name	Volume	Cumulative Volume	
CLAY 5 LIME CUB 799	29725.67	824919.14	
CLAY 5 LIME CUB 799	0.00	278061.63	



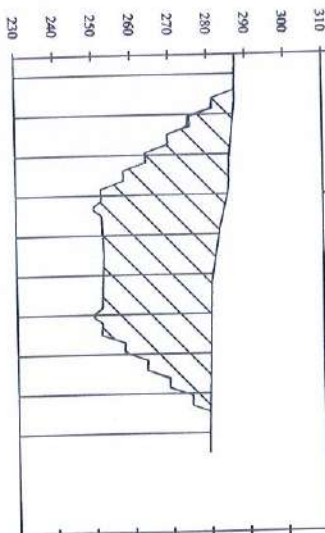
96+120.0096+180.0096+240.00

96+140.00

96+200.0096+260.0096+160.0096+220.0096+280.00

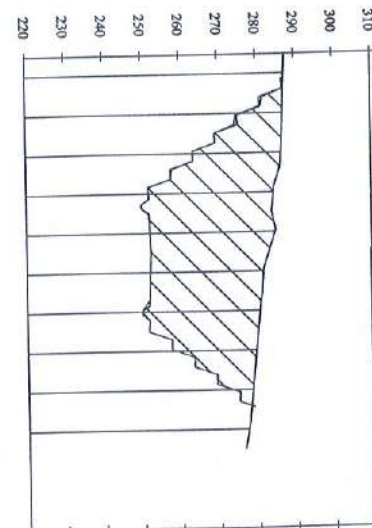
96+300.00

Materiality at Station 96+300.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	34662.64	113080.28
رمل 5 ملم ع.ب 799	0.00	278061.63



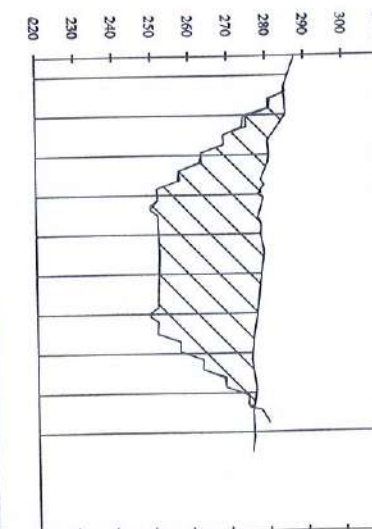
96+320.00

Materiality at Station 96+320.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	35883.71	116668.99
رمل 5 ملم ع.ب 799	0.00	278061.63



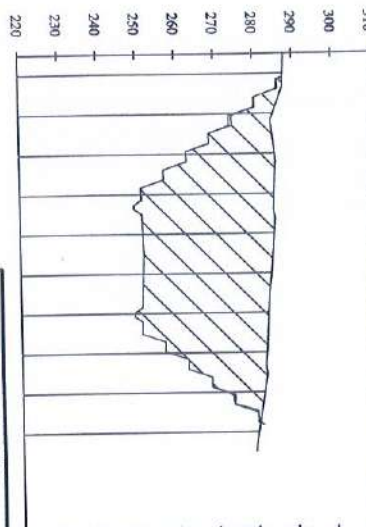
96+340.00

Materiality at Station 96+340.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	33163.21	119912.20
رمل 5 ملم ع.ب 799	0.00	278061.63



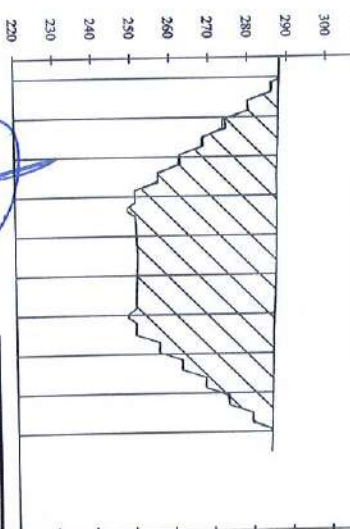
96+360.00

Materiality at Station 96+360.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	34790.75	123397.95
رمل 5 ملم ع.ب 799	0.00	278061.63



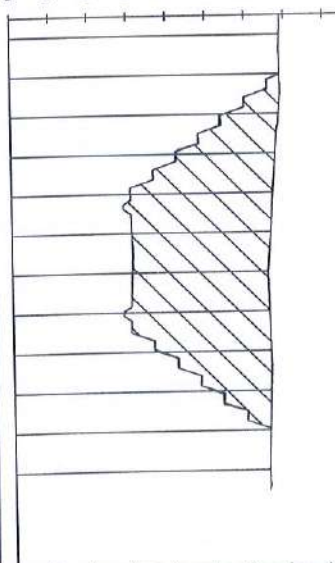
96+380.00

Materiality at Station 96+380.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	41772.34	127569.28
رمل 5 ملم ع.ب 799	0.00	278061.63



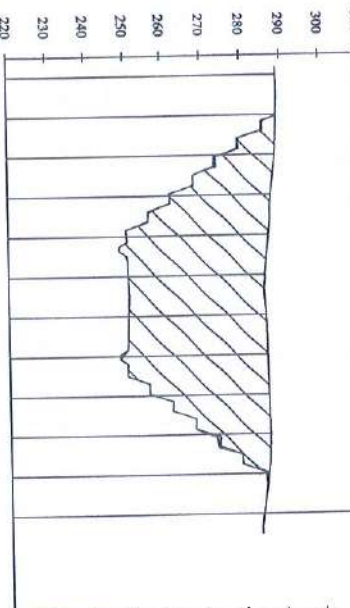
96+400.00

Materiality at Station 96+400.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	44401.26	131990.54
رمل 5 ملم ع.ب 799	0.00	278061.63



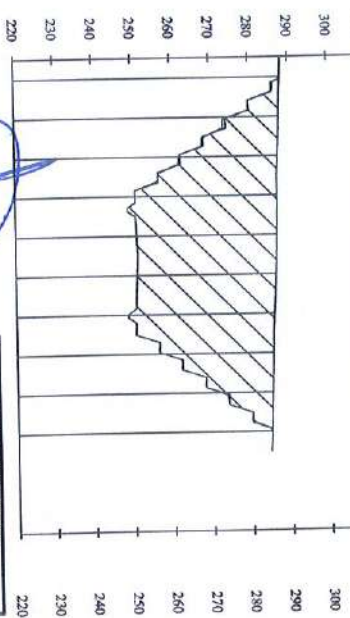
96+420.00

Materiality at Station 96+420.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	44850.15	136440.69
رمل 5 ملم ع.ب 799	0.00	278061.63



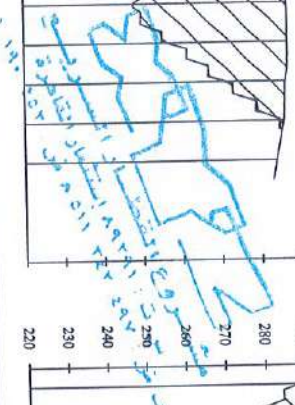
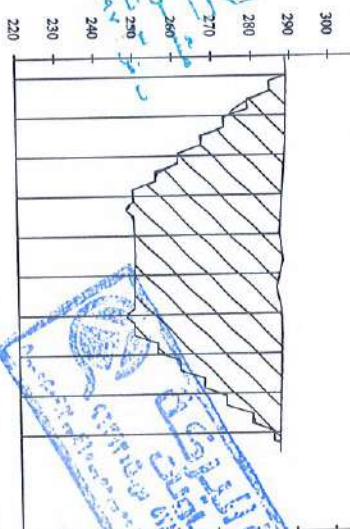
96+440.00

Materiality at Station 96+440.00		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	45638.61	141009.30
رمل 5 ملم ع.ب 799	0.00	278061.63



96+455.42

Materiality at Station 96+455.42		
Material Name	Volume	Cumulative Volume
رمل 5 ملم ع.ب 799	36371.69	144687.99
رمل 5 ملم ع.ب 799	0.00	278061.63



ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. - MOHANDESEEN - GIZA
Tel.: 33448413 - Fax.: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للهندسة والبناء

Date: 17/06/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve

ASTM D - 422

Sample delivery date: 15/06/2023

Sample Identification No.: Sample No. 1180

Source of sample: St 94+780 to 94+920 Slab

Level (m): -1.00

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 10.9%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	79.2	
1.5 in.	38	68.8	
1 in.	25	55.8	
3/4 in.	19	47.5	
1/2 in.	12.5	39.1	
3/8 in.	9.5	34.0	
No. 4	4.75	25.1	
No. 10	2.0	20.6	
No. 40	0.425	16.3	
No. 200	0.075	10.9	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Reviewed by: Eng. Osama Mostafa

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15Mny Sector

File No.: 4800/S

Client: شركة مكنه البركة

Date: 17/06/2023

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 15/06/2023

Sample Identification No. : Sample No. 1180

Source of sample: St 94+780 to 94+920 Slab

Level (m) : -1.00

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1180	N.P	N.P	N.P

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project
Reviewed by : Eng. Osama Mostafa

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL-KAWY AHMED ST., MOHANDSEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

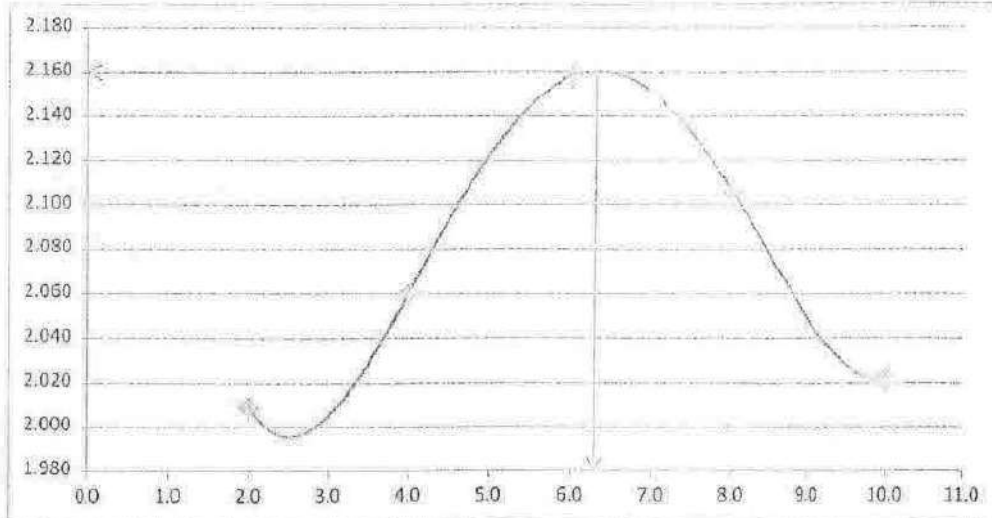
Client: شركة مصر للهندسة والبناء

Date: 17/06/2023

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 15/06/2023
Sample Identification No.: Sample No. 1180
Source of sample: St 94+780 to 94+920 Slab
Level (m): -1.00

Wet Unit Weight, gm/cm ³	2.049	2.143	2.287	2.274	2.224
Water Content, %	2.0	4.0	6.0	8.0	10.0
Dry Unit Weight, gm/cm ³	2.009	2.061	2.158	2.106	2.022



Result (s):

- 1- Maximum dry density = 2.160 t/m³
- 2- Optimum moisture content = 6.30 %

Note (s):

- 1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Electric Express Train
Reviewed by: Eng. Osama Mostafa

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مكة البركة

Date: 18/06/2023

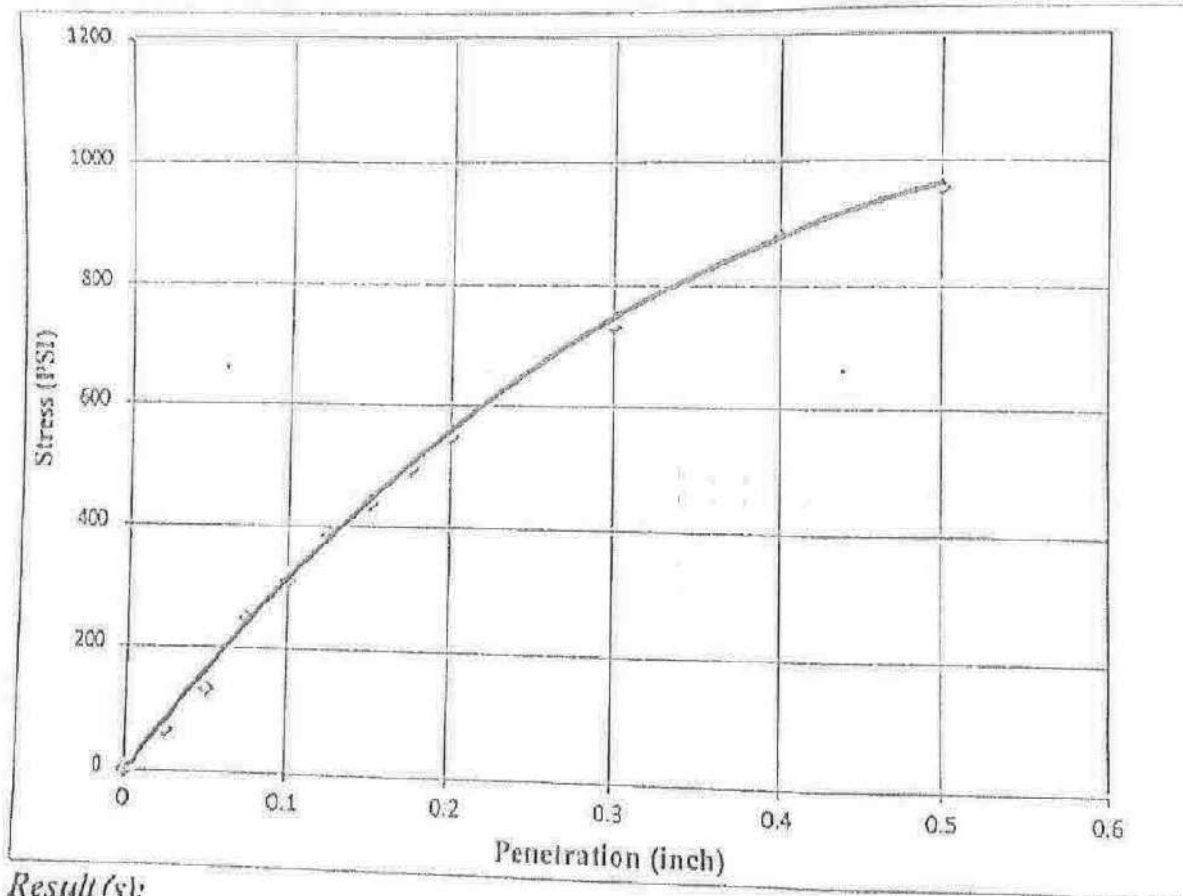
CBR OF LABORATORY-COMPACTED SOILSACCORDING TO ASTM D 1883

Sample delivery date: 15/06/2023

Sample Identification No.: Sample No. 1180

Source of sample: St 94+780 to 94+920 Slab

Level (m): -1.00

Result (s):

CBR at 0.1 Inch = 31.0 %

CBR at 0.2 Inch = 36.6 %

Note (s):

The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

Stamp: 18/06/2023
 Stamp: 18/06/2023
 Stamp: 18/06/2023

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, SAE
JAHDEL-KAWY AHMED SL. MOHANDEESSEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project:	Electric Express Train - 15 May Sector	File No.	4800/S
		Date	17/06/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	118	Testing Date : 17/6/2023
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Type of Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	15/06/2023

Sample Code No.	Source	Level	Station	Organic Matter Content, %
1180	شركة مكة البركة	-1	St. 94+780 to 94+920	0.446

Criteria of Acceptance	1.0%
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Note :	The Samples were found Complying with the Project Specs.
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Prepared By: Chem/ Mina Ayman



ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL KAWY AHMED St. , MOHANDSEEN - GIZA
Tel. : 33448413 - Fax : 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للتراب

Date: 13/07/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 11/07/2023

Sample Identification No.: Sample No. 1197

Source of sample: St 95+580 to 95+720 Slab

Level (m): -15.00

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 11.9%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	87.3	
2 in.	50	77.3	
1.5 in.	38	68.8	
1 in.	25	61.0	
3/4 in.	19	54.5	
1/2 in.	12.5	46.4	
3/8 in.	9.5	41.5	
No. 4	4.75	29.5	
No. 10	2.0	23.9	
No. 40	0.425	18.1	
No. 200	0.075	11.9	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Hoda Yehia

ARDAMAN Split
Egypt Express Train
Reviewed by: Eng. Osama Mofah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للهندسة والبناء

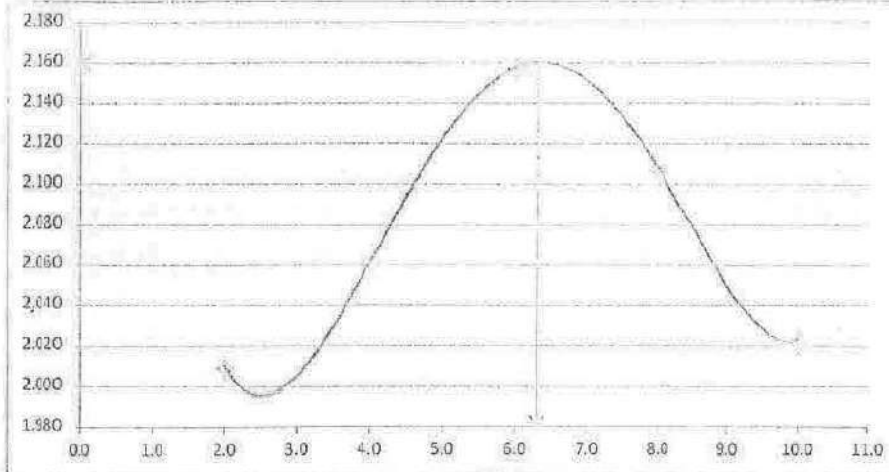
Date: 13/07/2023

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

Sample delivery date: 11/07/2023
Sample Identification No.: Sample No. 1197
Source of sample: St 95+580 to 95+720 Slab
Level (m): -15.00

Wet Unit Weight, gm/cm ³	2.049	2.143	2.287	2.274	2.224
Water Content, %	2.0	4.0	6.0	8.0	10.0
Dry Unit Weight, gm/cm ³	2.009	2.061	2.158	2.106	2.022



Result (s):

- 1- Maximum dry density = 2.160 t/m³
- 2- Optimum moisture content = 6.30 %

Note (s):

- 1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rodeyeh

ARDAMAN split
Egypt Express Train
Project
Reviewed by: Eng. Osama Mofleh

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St., MOHANDESEEN - GIZA
Tel.: 33448413 - Fax.: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مكة للبترولية

Date: 13/07/2023

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Sample delivery date: 11/07/2023

Sample Identification No.: Sample No. 1197

Source of sample: S1 95+580 to 95+720 Slab

Level (m): -15.00

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1197	N.P	N.P	N.P

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia



ARDAMAN Split
Egypt Express Train
Project
Reviewed by: Eng. Osama Mofleh

SOILS AND CONSTRUCTION TESTING
S.A.E

3, ABD EL-KAYAHMED ST. MOH-ANDESEEN - GIZA
TEL: 33448113 * FAX: 33031719

Project: Electric Express Train - 1531st Sector

File No.: 4300/S

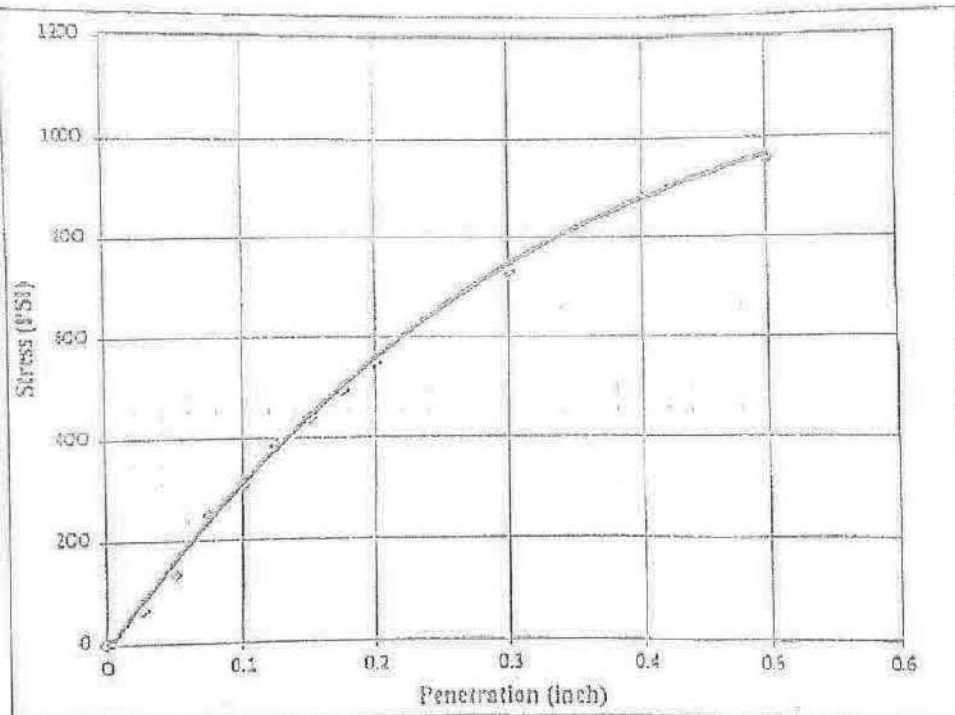
Client: *El-Zohary*

Date: 14/07/2023

CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

Sample delivery date: 11/07/2023
Sample Identification No.: Sample No. 1197
Source of sample: St 95+380 to 95+720 Slab
Level (m): -15.00



Result (s):

CBR at 0.1 Inch = 31.0 %
CBR at 0.2 Inch = 36.6 %

Note (s):

The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rohy Yehia

Reviewed by: Eng. Osama Mostafa
FAD

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, SAE

3.ABD EL-KAWY AHMED St, MOHANDEESSEN - GIZA (Tel. : 3348413 - Mobile : 01006030248)

Project: Electric Express Train -
15 May Sector

File No.

4800/S

Date

13/07/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.

ARD-CH

143

Testing Date : 13/7/2023

Type of Tested Material

SOIL (Ref.: AASHTO T-267)

Delivery Date

11/07/2023

Sample Code No.	Source	Level	Station	Organic Matter Content, %
1197	شركة مكة البركة	-15	St.95+580 to 95+720	0.418

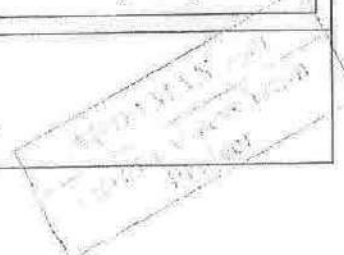
Criteria of Acceptance

1.0%

Note :

The Samples were found Complying with the Project Specs.

Prepared By: Chem/ Mina Ayman



ARDAMAN Sptit

MATERIALS AND CONSTRUCTION TESTING
SAE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax : 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للريكة

Date: 26/07/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 11.9%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	87.6	
2 in.	50	77.5	
1.5 in.	38	63.4	
1 in.	25	50.7	
3/4 in.	19	46.0	
1/2 in.	12.5	38.3	
3/8 in.	9.5	34.7	
No. 4	4.75	27.1	
No. 10	2.0	22.1	
No. 40	0.425	16.7	
No. 200	0.075	11.9	

Notes:-

1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Sptit
Electric Express Train
Reviewed by: Eng. Osama Mostafa
Project

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL KAWY AHMED St., MOHANDESEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

Client: شركة مصر للريكة

Date: 26/07/2023

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ACCORDING TO ASTM D4318

Sample delivery date: 24/07/2023

Sample Identification No. : Sample No. 1210

Source of sample: SI 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1210	N.P	N.P	N.P

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

Reviewed by: Eng. Osama Mostafa

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ARD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للهندسة والبناء

Date: 26/07/2023

MOISTURE DENSITY RELATIONSHIP OF SOIL

ACCORDING TO ASTM D 1557

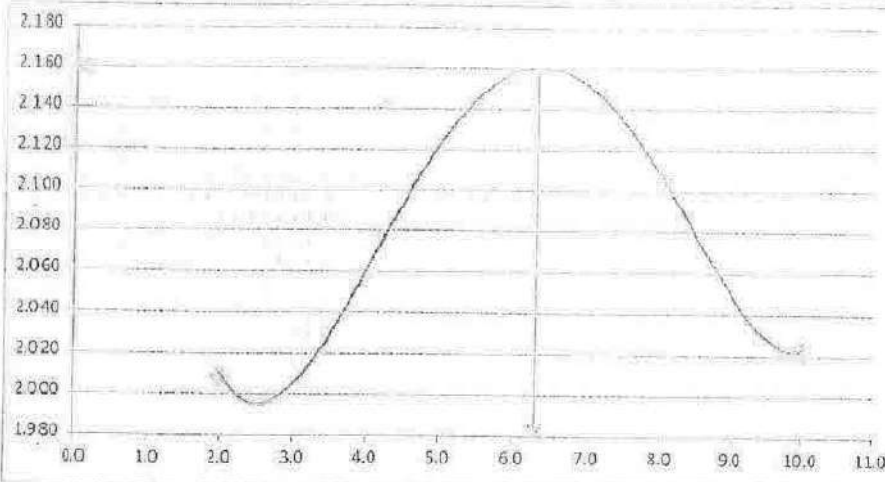
Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Wet Unit Weight, gm/cm ³	2.049	2.143	2.287	2.274	2.224
Water Content, %	2.0	4.0	6.0	8.0	10.0
Dry Unit Weight, gm/cm ³	2.009	2.061	2.158	2.106	2.022



Result(s):

- 1- Maximum dry density = 2.160 t/m³
2- Optimum moisture content = 6.30 %

Note (s):

- 1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia



ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESSEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مكة القوي

Date: 26/07/2023

CBR OF LABORATORY-COMPACTED SOILS

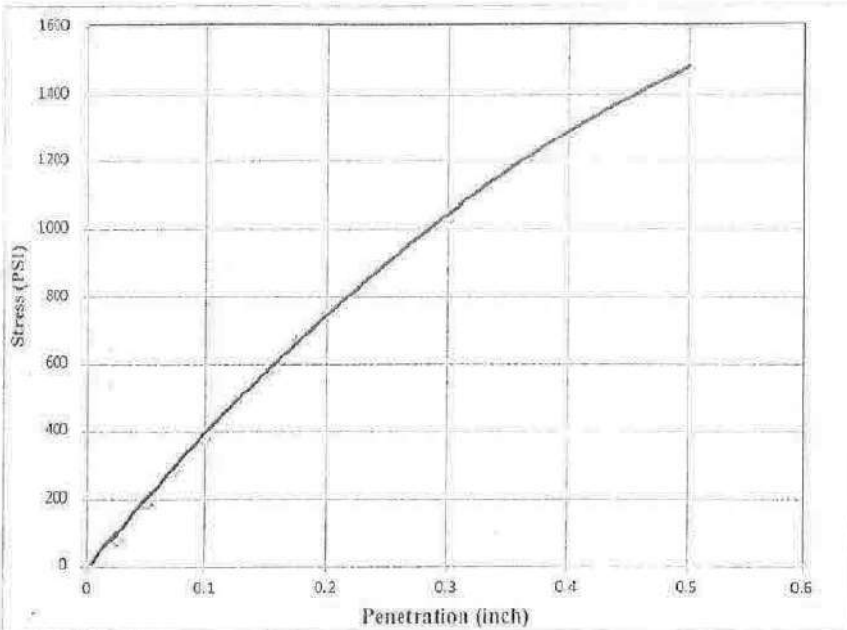
ACCORDING TO ASTM D 1883

Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production



Result (s):

CBR at 0.1 Inch = 37.6 %

CBR at 0.2 Inch = 50.2 %

Note (s):

The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split

Electric Express Train

Reviewed by: Eng. Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St. MOHANDEESEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train -
15 May Sector

File No.

4800/S

Date

26/07/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.

ARD-CH

148

Testing Date : 26/7/2023

Type of Tested Material

SOIL (Ref.: AASHTO T-267)

Delivery Date

25/07/2023

Sample
Code No.

Source

Level

Station

Organic
Matter
Content,
%

1210

شركة مكة البركة

Stockpile-
B.F

St.97+000

0.315

Criteria of Acceptance

1.0%

Note :

The Samples were found Complying with the Project Specs.

Prepared By: Chem/ Mina Ayman



ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL KAWY AHMED St. , MOHANDISEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/5

Client: شركة مصر للتراب

Date: 21/08/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 19/08/2023

Sample Identification No. : Sample No. 1229

Source of sample: St 97+000 Stock Pile

Level (m) : Lower Embankment

Classification According to AASHTO: A-1-b

Percentage of materials finer than # 200: 5.2%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	98.5	
1 in.	25	90.4	
3/4 in.	19	88.6	
1/2 in.	12.5	86.8	
3/8 in.	9.5	84.9	
No. 4	4.75	78.5	
No. 10	2.0	56.2	
No. 40	0.425	30.5	
No. 200	0.075	5.2	

Notes:-

1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Electric Express Train
Reviewed by: Eng. Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL KAWY AHMED St. MOHAMEDSEEN - GIZA
Tel : 33448413 - Fax : 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

Client: شركة مكة البترولية

Date: 21/08/2023

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D4318

Sample delivery date: 19/08/2023

Sample Identification No.: Sample No. 1229

Source of sample: St 97+000 Stock Pile

Level (m): Lower Embankment

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1229	N.P	N.P	N.P

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

Reviewed by : Eng. Osama Mostafa

ARDAMAN Split
MATERIALS AND CONSTRUCTION TESTING
S.A.E

3, ABD EL-KAWY AHMED ST., MOHANDESEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

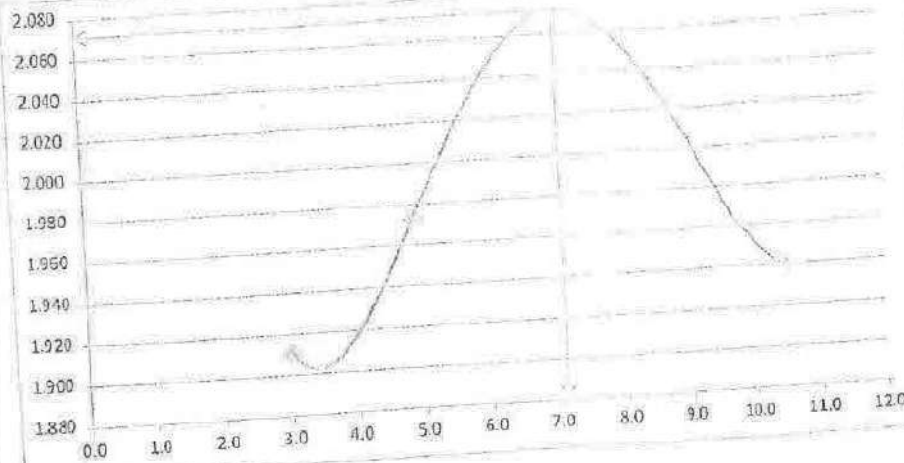
Date: 21/08/2023

Client: شركة مكاه البركة

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 19/08/2023
Sample Identification No.: Sample No. 1229
Source of sample: St 97+000 Stock Pile
Level (m): Lower Embankment

Wet Unit Weight, gm/cm ³	1.968	2.069	2.209	2.198	2.144
Water Content, %	3.0	4.9	6.8	8.7	10.5
Dry Unit Weight, gm/cm ³	1.911	1.972	2.068	2.022	1.940



Result (s):
1- Maximum dry density = 2.070 t/m³
2- Optimum moisture content = 7.10 %

Note (s):
1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Reviewed by: Eng. Osama Mostafa
PROJ

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABDEL-KAWY AHMED ST., MOHAMEDSEEN - GIZA
TEL: 33148413 - FAX: 33031719

Project: Electric Express Train - 15 May Sector

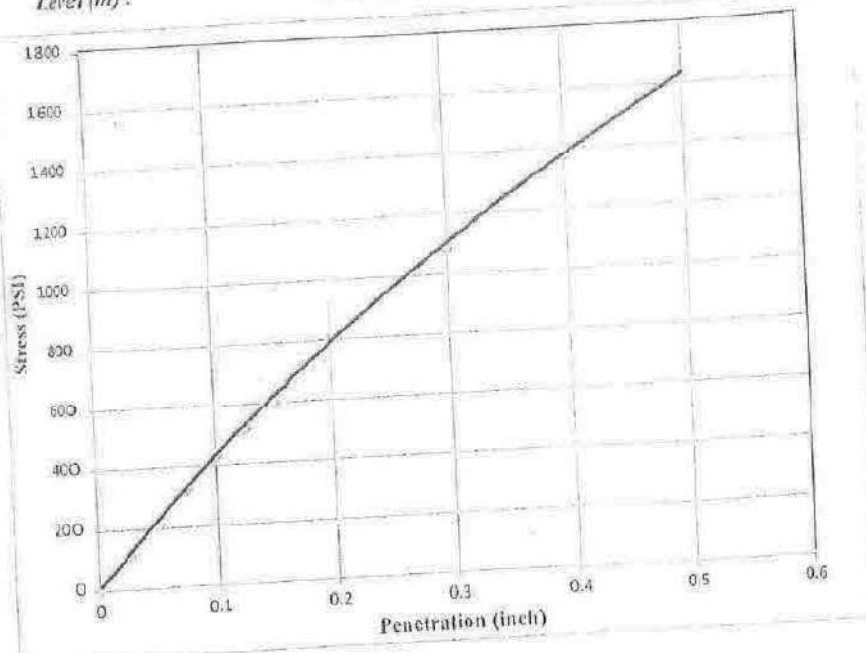
File No.: 4809/S

Date: 22/08/2023

Client: شركة مصر للهندسة والبناء

CBR OF LABORATORY-COMPACTED SOILS
ACCORDING TO ASTM D 1883

Sample delivery date: 19/08/2023
Sample Identification No.: Sample No. 1229
Source of sample: St. 97+000 Stock Pile
Level (m): Lower Embankment



Result (s):
CBR at 0.1 Inch = 43.1 %
CBR at 0.2 Inch = 53.3 %

Note (s):
The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

Reviewed by: Eng. Osama Mofleh

ARDAMAN Split
Electric Express Train
15 May Sector

ARDAMAN Split

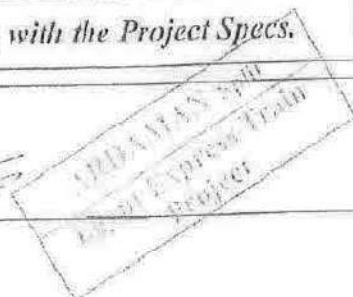
MATERIALS AND CONSTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEN - GIZA (Tel. : 33-48-413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	20/08/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	165	Testing Date :20/8/2023	
Type of Tested Material	SOIL (Ref.: AASHTO T-267)			
Delivery Date	19/08/2023			
Sample Code No.	Source	Level	Station	Organic Matter Content, %
1229	شركة مكة البركة	Stockpile	St.97+000	0.517
Criteria of Acceptance				1.0%
Note :	The Samples were found Complying with the Project Specs.			
Prepared By: Chem/ Minaa Ayman				



ARDAMAN Split
MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مكة البركة

Date: 26/07/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 24/07/2023

Sample Identification No. : Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 11.9%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	87.6	
2 in.	50	77.5	
1.5 in.	38	63.4	
1 in.	25	50.7	
3/4 in.	19	46.0	
1/2 in.	12.5	38.3	
3/8 in.	9.5	34.7	
No. 4	4.75	27.1	
No. 10	2.0	22.1	
No. 40	0.425	16.7	
No. 200	0.075	11.9	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split

Egypt Express Train
Reviewed by : Eng. Osama Mostafa
Project

ARDAALAN Spill

MAHARAJA UNIVERSITY TOWN HASTING

SAT

CAROL ANN GARDIN, MORNINGSIDE - GIZA
101 ELIASSI, 1304, GIZA

File No. 48003

Project Electric Express Train - 15 May Sector

Date: 26/07/2023

Client: Egh & Lj

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS

ACCORDING TO ASTM D418

Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: SI 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1210	- N.P	- N.P	- N.P

- Notes:

1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

Reviewed by: Eng. Osama Mofiah
ARDAALAN Spill
1304 ELIASSI, 1304, GIZA

ARDAMAN Spill
MATERIALS AND CONSTRUCTION TESTING
S.A.E

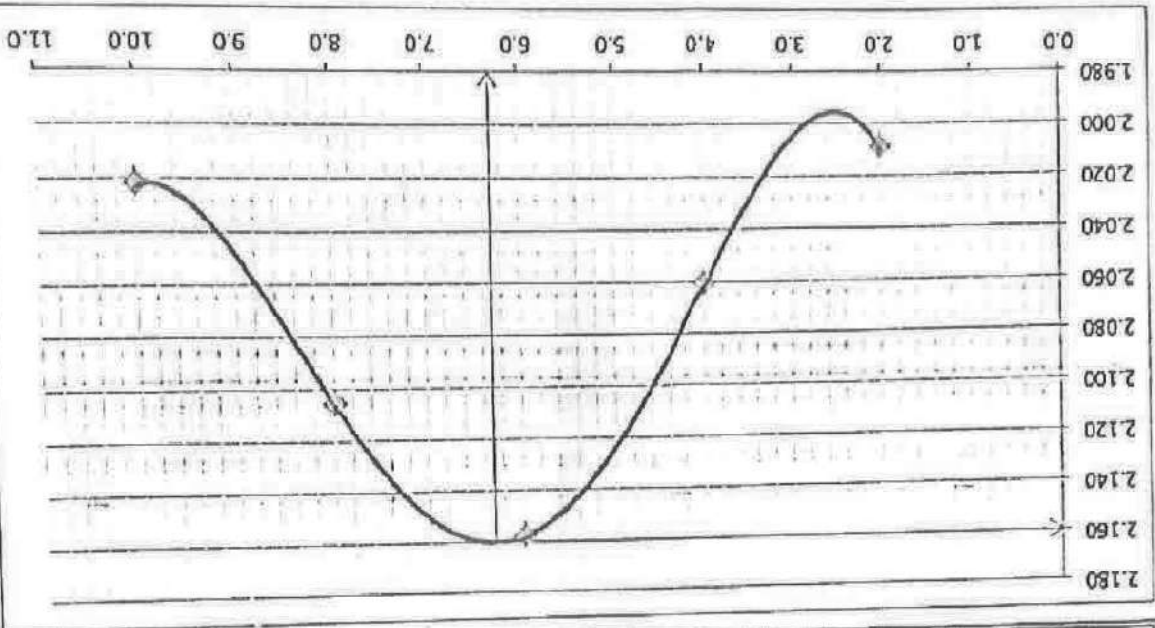
3 ABD EL-KAWY AHMED ST., MOHANDSEEN - GIZA
 TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - 15th May Sector
 Client: مصر الجي. ٤٥٤٥
 File No.: 4800/S
 Date: 26/07/2023

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 24/07/2023
 Sample Identification No.: Sample No. 1210
 Source of sample: St 97+000 Stock Pile For Mixed Materials
 Description of sample: Back Filling Crushing Production

Wet Unit Weight, g/cm ³	Water Content, %	Dry Unit Weight, g/cm ³
2.049	2.0	2.009
2.143	4.0	2.061
2.287	6.0	2.158
2.274	8.0	2.106
2.224	10.0	2.022



Result (s):

1- Maximum dry density = 2.160 g/cm³
 2- Optimum moisture content = 6.30 %

Note (s):

1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Spill
Egypt Express Train
Project

MATERIALS AND CONSTRUCTION TESTING

S.A.E

1 AND EL-KHAY AHMED ST. MOHAMEDSEN - GIZA

TEL: 3304111 • FAX: 33041719

File No.: 4800/S

Project: Electric Express Train - 15Mkg Sector

Date: 26/07/2023

Client: كى.بى.اى.جى

CBR OF LABORATORY-COMPACTED SOILS

ACCORDING TO ASTM D 1883

Sample delivery date:

24/07/2023

Sample Identification No.:

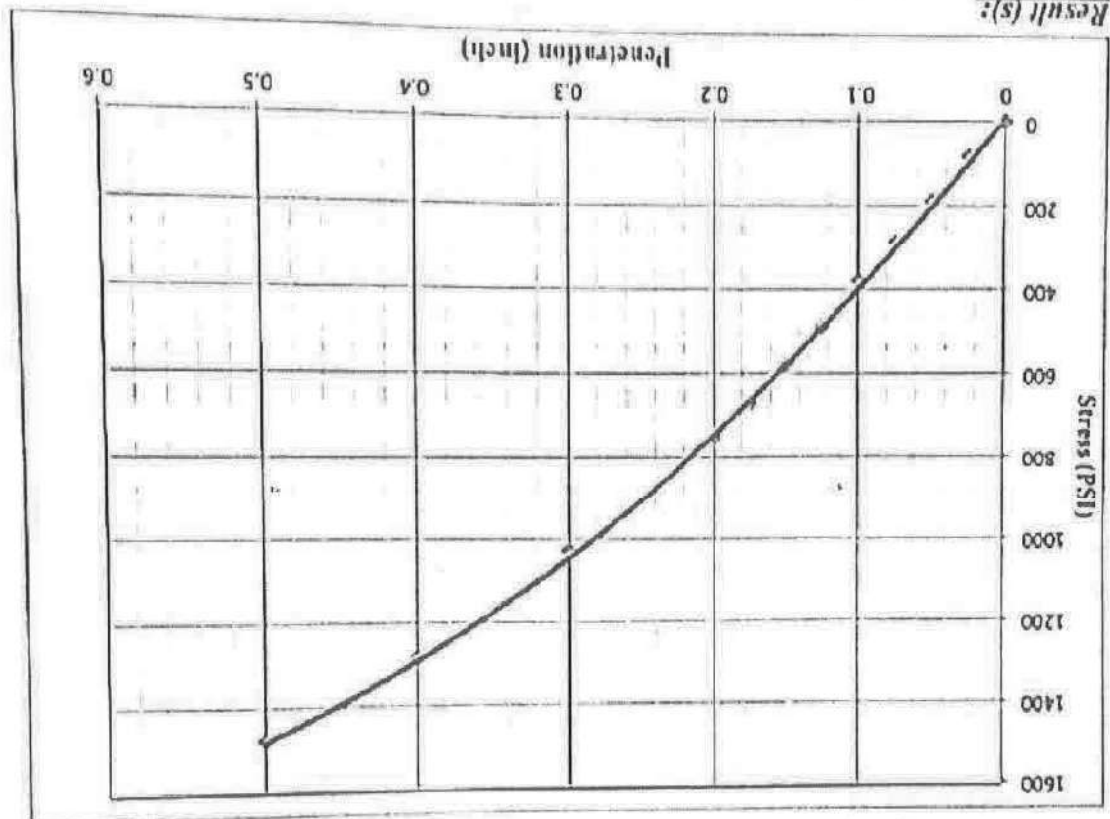
Sample No. 1210

Source of sample:

SI 97+000 Stack Pile For Mixed Materials

Description of sample:

Back Filling Crushing Production



Result (s):

CBR at 0.1 Inch =

37.6

%

CBR at 0.2 Inch =

50.2

%

Note (s):

The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Kady Yehia

ARDAMIAN Spill

Express Train

Reviewed by: Eng. Ayman Mofiah

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED SI, MOHANDSEEN - GIZA (Tel : 33448413 - Mobile : 01066030248)

Project: Electric Express Train - 15 May Sector

File No. 4800/S

Date 26/07/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.

ARD-CH

148

Testing Date : 26/7/2023

Type of Tested Material

SOIL (Ref.: AASHTO T-267)

Delivery Date

25/07/2023

Sample Code No.

Source

Level

Station

Organic Matter

Content, %

1210

مادة الجص

Stockpile-B.F

St.97+000

0.315

Criteria of Acceptance

1.0%

Note :

The Samples were found Complying with the Project Specs.

Prepared By:

Chem/Mina Ayman

ARDAMAN Split

Egypt Express Train

Project

ARDAMAN Split
MATERIALS AND CONSTRUCTION TESTING
SAE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 3348413 - Fax. : 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للبرق

Date: 26/07/2023

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: 24/07/2023

Sample Identification No. : Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Classification According to AASHTO: A-1-a

Percentage of materials finer than # 200: 11.9%

Sieve	Opening	Percentage	
No.	(mm)	Passing %	
3 in.	75	100.0	
2.5 in.	63.5	87.6	
2 in.	50	77.5	
1.5 in.	38	63.4	
1 in.	25	50.7	
3/4 in.	19	46.0	
1/2 in.	12.5	38.3	
3/8 in.	9.5	34.7	
No. 4	4.75	27.1	
No. 10	2.0	22.1	
No. 40	0.425	16.7	
No. 200	0.075	11.9	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split

Egypt Express Train
Reviewed by: Eng. Osama Mostafa
Project

ARDAMAN SpA

**MATERIALS AND CONSTRUCTION TESTING
S.A.R.L**

**LARDU KAWY ARMED ST. MORTAR/CONCRETE - GLA
Tel : 0115111 - Fax : 0111119**

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

Client: شركة مصر للهندسة والبناء

Date: 26/07/2023

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: St 974000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 1210	N.P	N.P	N.P

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

**ARDAMAN SpA
Electric Express Train
Reviewed by: Eng. Osama-Mostafa**

ARDAMAN Split
MATERIALS AND CONSTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - 15 May Sector

File No.: 4800/S

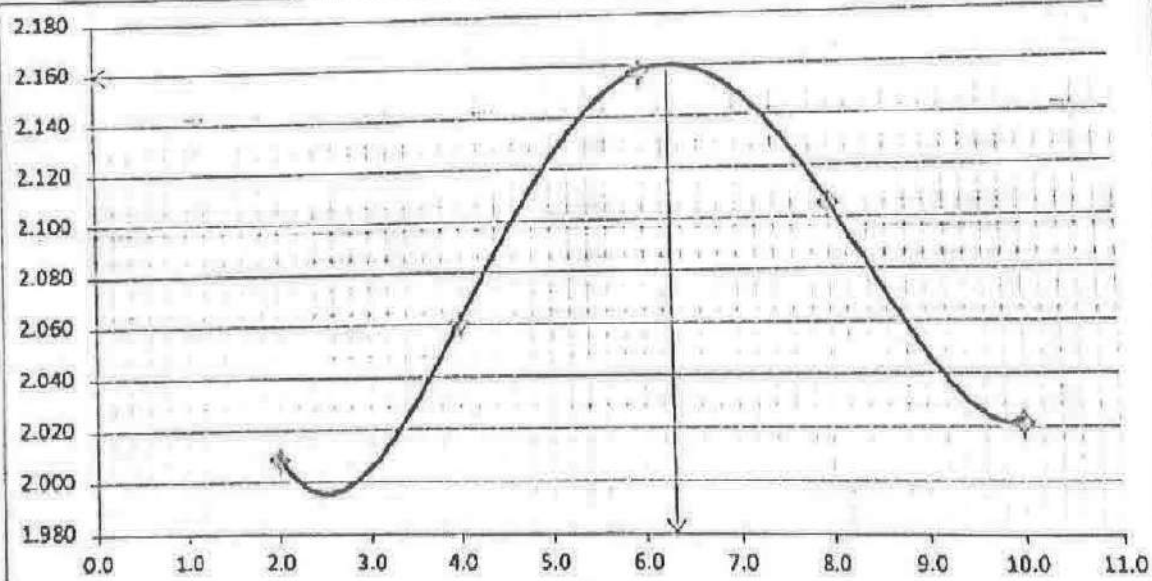
Date: 26/07/2023

Client: شركة مكة البركة

MOISTURE DENSITY RELATIONSHIP OF SOIL
ACCORDING TO ASTM D 1557

Sample delivery date: 24/07/2023
Sample Identification No.: Sample No. 1210
Source of sample: St 97+000 Stock Pile For Mixed Materials
Description of sample: Back Filling Crushing Production

Wet Unit Weight, gm/cm ³	2.049	2.143	2.287	2.274	2.224
Water Content, %	2.0	4.0	6.0	8.0	10.0
Dry Unit Weight, gm/cm ³	2.009	2.061	2.158	2.106	2.022



Result (s):

- 1- Maximum dry density = 2.160 t/m³
2- Optimum moisture content = 6.30 %

Note (s):

- 1- The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

MATERIALS AND CONSTRUCTION TESTING
S.A.E

JAB EL-KAWY AHMED ST., MOHANDSEEN - GIZA
TEL: 33448413 - FAX: 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

Client: شركة مكة للبترية

Date: 26/07/2023

CBR OF LABORATORY-COMPACTED SOILS

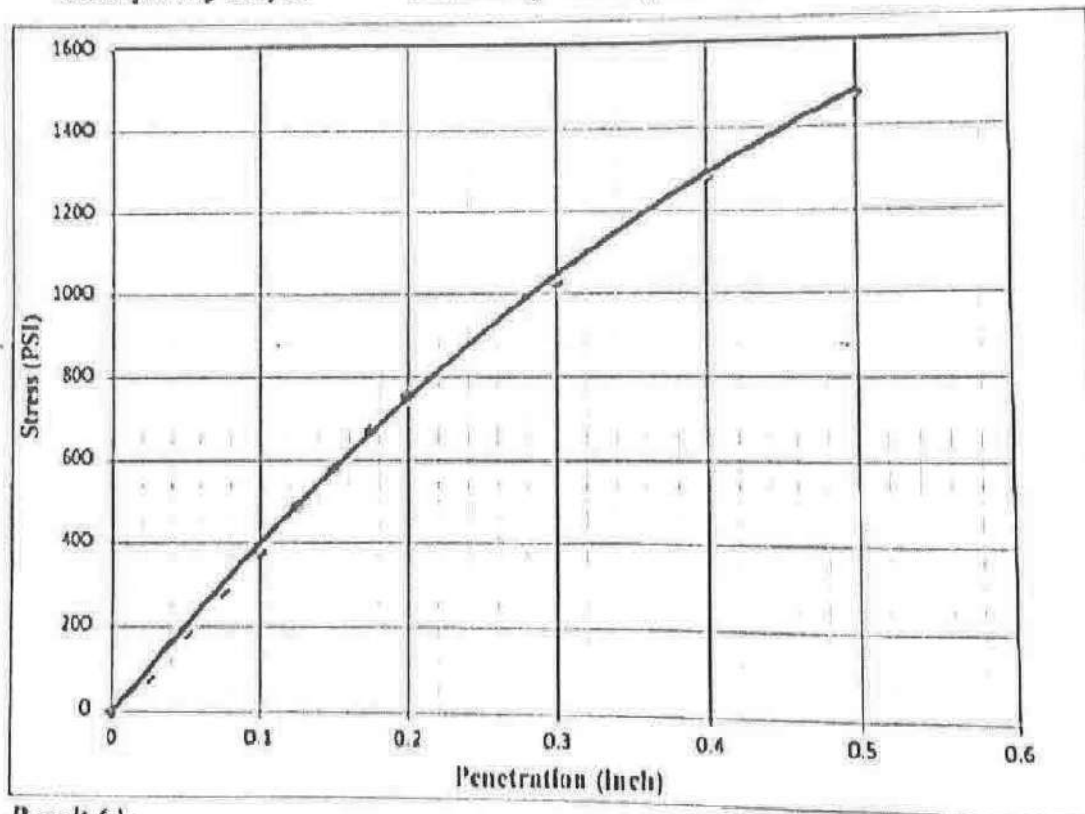
ACCORDING TO ASTM D 1883

Sample delivery date: 24/07/2023

Sample Identification No.: Sample No. 1210

Source of sample: St 97+000 Stock Pile For Mixed Materials

Description of sample: Back Filling Crushing Production



Result (s):

CBR at 0.1 Inch = 37.6 %

CBR at 0.2 Inch = 50.2 %

Note (s):

The sample is provided by the consultant and under his own responsibility.

Prepared by: Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Reviewed by: Eng. Osama Mostafa

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESSEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train -
15 May Sector

File No.

4800/S

Date

26/07/2023

CHEMICAL ANALYSIS REPORT

Letter Ref. No.

ARD-CH

148

Testing Date : 26/7/2023

Type of Tested Material

SOIL (Ref.: AASHTO T-267)

Delivery Date

25/07/2023

Sample Code No.	Source	Level	Station	Organic Matter Content, %
1210	شركة مكة البركة	Stockpile-B.F	St.97+000	0.315

Criteria of Acceptance

1.0%

Note :

The Samples were found Complying with the Project Specs.

Prepared By: Chem/ Mina Ayman

Mina

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