

	SOIL ENGINEERING SERVICES (SES) خدمات مهندسی مکانیک خاک	
	PROJ NO: 1347-EE-PEP-GEO-001-B	REV: B
	SUBJECT: GEOTECHNICAL INVESTIGATION, PHASE I, FACTUAL REPORT, SOUTH ALUMINIUM SMELTER (SALCO) IRAN	

Enclosure O

Permeability - Lefranc Tests

Boring No.	Test NO.	Depth (m)		Test Method	Permeability (cm/sec)		
		From	To		Rising Head	Falling Head	Constant Head
BH-013	1	6.00	7.00	G		7.70E-07	6.90E-07
BH-038	1	6.00	7.00	G		4.60E-06	1.00E-06
BH-042	1	9.00	10.00	G		5.10E-07	1.30E-07
BH-047	1	6.00	7.00	G		3.80E-06	3.60E-07
BH-049	1	9.00	10.00	G		1.40E-06	2.70E-07
BH-055	1	7.00	8.00	G		8.40E-06	2.60E-06
BH-058	1	9.00	10.00	G		1.40E-05	2.50E-06
BH-078	1	5.00	6.00	G		1.10E-05	1.60E-06
BH-086	1	6.00	7.00	G		7.40E-05	4.20E-05
BH-091	1	6.00	7.00	G		1.00E-05	2.10E-06
BH-095	1	9.00	10.00	G		1.40E-05	2.80E-06
BH-096	1	6.00	7.00	G		1.00E-05	1.10E-06
BH-100	1	6.00	7.00	G		3.80E-06	2.00E-07
BH-124	1	4.00	5.00	G		1.30E-06	5.60E-07
	1	9.00	10.00	G		8.50E-06	4.50E-06
BH-133	2	6.00	7.00	G		1.30E-06	3.80E-06
BH-139	1	7.00	8.00	G		5.50E-06	6.00E-07
BH-143	1	9.00	10.00	G		3.00E-06	8.30E-07
BH-151	1	7.00	8.00	G		1.20E-05	2.70E-06
BH-157	1	7.00	8.00	G		2.30E-06	3.00E-07
BH-164	1	8.50	9.50	G		1.90E-06	2.40E-07
BH-166	1	6.00	7.00	G		2.20E-07	1.00E-08
BH-175	1	7.00	8.00	G		4.00E-06	4.10E-07
BH-184	1	6.00	7.00	G		6.10E-06	8.10E-07

Test Methods :

A: Laboratory Permeameter (Consolidometer)
B: Flush Bottom at Impervious Boundary
C: Flush Bottom in Uniform Soil
D: Soil In Casing at Impervious Boundary
E: Soil in Casing in Uniform Soil
F: Well Point-Filter at Impervious Boundary
G: Well Point-Filter in Uniform Soil

Type of Permeability :

Kv: Vertical Permeability , Ground
Kh: Horizontal Permeability , Ground
Km: Mean Coefficient of Permeability
K'v: Vertical Permeability , Casing

TITLE : LEFRANC TEST RESULTS

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 1
	CLIENT : NFC	PROJ. No. : 1347
SOIL ENGINEERING SERVICES CONSULTING ENGINEERS		

Boring No.	Test NO.	Depth (m)		Test Method	Permeability (cm/sec)		
		From	To		Rising Head	Falling Head	Constant Head
BH-199	1	9.00	10.00	G		5.00E-06	8.50E-07
BH-220	1	9.00	10.00	G		3.40E-06	4.00E-07
BH-247	1	7.00	8.00	G		9.50E-07	9.10E-07
BH-277	1	7.00	8.00	G		1.50E-06	2.00E-07
BH-281	1	9.00	10.00	G		5.00E-06	1.10E-05
BH-284	1	8.00	9.00	G		9.00E-06	2.00E-05
BH-286	1	9.00	10.00	G		3.10E-06	3.00E-06
BH-288	1	7.00	8.00	G		8.30E-06	1.10E-06
BH-298	1	5.00	6.00	G		1.60E-06	2.10E-07
BH-320	1	7.00	8.00	G		1.70E-06	2.20E-07
BH-322	1	7.00	8.00	G		4.80E-06	4.10E-07
BH-329	1	6.00	7.00	G		1.60E-05	5.60E-07
BH-339	1	7.00	8.00	G		4.70E-06	4.40E-07
BH-354	1	9.00	10.00	G		2.80E-06	5.20E-06

Test Methods :

A: Laboratory Permeameter (Consolidometer)
 B: Flush Bottom at Impervious Boundary
 C: Flush Bottom in Uniform Soil
 D: Soil In Casing at Impervious Boundary
 E: Soil in Casing in Uniform Soil
 F: Well Point-Filter at Impervious Boundary
 G: Well Point-Filter in Uniform Soil

Type of Permeability :

Kv: Vertical Permeability , Ground
 Kh: Horizontal Permeability , Ground
 Km: Mean Coefficient of Permeability
 K'v: Vertical Permeability , Casing

TITLE : LEFRANC TEST RESULTS

	PROJECT: SOUTH ALUMINUM SMELTER PLANT	FIG. No.: 2
	CLIENT : NFC	PROJ. No. : 1347

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