

Preparação de solos - ABNT NBR 6457:16	Análise granulométrica - ABNT NBR 7181:18	Módulo de resiliência - DNIT 134:18 ME
Limite de liquidez - ABNT NBR 6459:17	Compactação de solos - ABNT NBR 7182:16	Compressão axial - DNER ME 201:94
Limite de plasticidade - ABNT NBR 7180:16	Suporte Califórnia - ABNT NBR 9895:17	Equivalente de areia - DNER ME 054:97

DATA:	26/09/2023
REL. Nº:	660-011-010-23
O.S Nº:	660-011-PMR12
REV. Nº:	0
FOLHA Nº:	3/72

Esse resumo é um anexo informativo do relatório 660-010-010-23 com o objetivo de facilitar na interpretação do cliente, não fazendo parte do corpo do relatório acreditado.

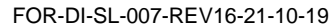
CLIENTE:	CÂMARA MUNICIPAL ENTRE RIOS DE MINAS	SUB-TRECHO:	
OBRA:	ENTRE RIOS DE MINAS-MG	PROCEDÊNCIA:	-
TRECHO:	VARIAS RUAS	ESTUDO:	BASE

INICIO DO ENSAIO:	04/09/2023	h / min	14:00	FINAL DO ENSAIO:	22/09/2023	h / min	16:06
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Registro	Furo/ Amostr a	Estac a	Prof.	Granulometria (porcentagem passando)												Índices físicos				Compactação				Sedimentação				Umid.	M. Resilien	Cmp. Axial	Traça o Com	
				2"	1 1/2"	1"	3/4"	3/8"	Nº4	Nº10	Nº16	Nº30	Nº40	Nº60	Nº 100	Nº200	L.L	I.P	I.G	T.R.B	Hót.	Dens. máx.	I.S.C.	EXP	Argila	Silte	Areia	Pedr.	Solos			σ_d
				(m)	50,4	38,1	25,4	19,1	9,52	4,76	2,0	1,2	0,59	0,42	0,25	0,15	0,074	(%)	-	-	-	(%)	(g/cm³)	(%)	(%)	(%)	(%)	(%)	(%)			(MPa)

[illegible][illegible][illegible][illegible][illegible]

* Os ensaios de compactação e limites físicos são realizados pelo método com secagem prévia até a umidade higroscópica



Preparação de solos - ABNT NBR 6457:16
Limite de liquidez - ABNT NBR 6459:17
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Módulo de resiliência - DNIT 134:18 ME
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Equivalente de areia - DNER ME 054:97

DATA:	26/09/2023
REL. Nº:	660-011-010-23
O.S Nº:	660-011-PMR12
REV. Nº:	0
FOLHA Nº:	4/72

CLIENTE:	CÂMARA MUNICIPAL ENTRE RIOS DE MINAS	SUB-TRECHO:	
OBRA:	ENTRE RIOS DE MINAS-MG	PROCEDÊNCIA:	-
TRECHO:	VARIAS RUAS	ESTUDO:	BASE

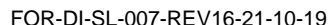
INICIO DO ENSAIO:	04/09/2023	h / min	14:00	FINAL DO ENSAIO:	22/09/2023	h / min	16:06
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Registro	Furo/ Amostr a	Estac a	Prof.	Granulometria (porcentagem passando)												Índices físicos				Compactação				Sedimentação				Umid.	M. Resilien	Cmp. Axial	Traça o Com	
				2"	1 1/2"	1"	3/4"	3/8"	Nº4	Nº10	Nº16	Nº30	Nº40	Nº60	Nº 100	Nº200	L.L	I.P	I.G	T.R.B	Hót.	Dens. máx.	I.S.C.	EXP	Argila	Silte	Areia	Pedr.	Solos			σ_d
				(m)	50,4	38,1	25,4	19,1	9,52	4,76	2,0	1,2	0,59	0,42	0,25	0,15	0,074	(%)	-	-	-	(%)	(g/cm³)	(%)	(%)	(%)	(%)	(%)	(%)			(MPa)

[illegible][illegible][illegible][illegible]

ESPECIFICAÇÕES - DNIT	137-10	S. LEITO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	> ater.	< 2	-	-	-	-	-	-	-	-	-	-			
	139-10	S. BASE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	> 20	< 1	-	-	-	-	-	-	-	-	-	-			
	141-10	BASE	FAIXA	A	100	-	-	-	30-65	25-55	15-40	-	-	8-20	-	-	2-8	≤ 25	≤ 6	-	-													
				B	100	-	75-90	-	40-75	30-60	20-45	-	-	15-30	-	-	5-15			-	-													> 60
				C	-	-	100	-	50-85	35-65	25-50	-	-	15-30	-	-	5-15			-	-													f(x) *N"
				D	-	-	100	-	60-100	50-85	40-70	-	-	25-45	-	-	10-25			-	-													< 0,5
				E	-	-	100	-	-	55-100	40-100	-	-	20-50	-	-	6-20			-	-													-
				F	-	-	100	-	-	10-100	55-100	-	-	30-70	-	-	8-25			-	-													-

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RESUMO DE ENSAIOS DE CARACTERIZAÇÃO

Preparação de solos - ABNT NBR 6457:16

Limite de liquidez - ABNT NBR 6459:17

Limite de plasticidade - ABNT NBR 7180:16

Análise granulométrica - ABNT NBR 7181:18

Compactação de solos - ABNT NBR 7182:16

Suporte Califórnia - ABNT NBR 9895:17

Módulo de resiliência - DNIT 134:18 ME

Compressão axial - DNER ME 201:94

Equivalente de areia - DNER ME 054:97

DATA:

26/09/2023

REL. N°:

660-011-010-23

O.S N°:

660-011-PMR12

REV. N°:

0

FOLHA Nº:

5/72

Esse resumo é um anexo informativo do relatório 660-010-010-23 com o objetivo de facilitar na interpretação do cliente, não fazendo parte do corpo do relatório acreditado.

CLIENTE: CÂMARA MUNICIPAL ENTRE RIOS DE MINAS

SUB-TRECHO:

OBRA: ENTRE RIOS DE MINAS-MG

PROCEDÊNCIA:	-
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TRECHO: VARIAS RUAS

ESTUDO:	SUBLETO
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CONTROLE DE EXECUÇÃO DO ENSAIO (DATA E HORA)

INÍCIO DO ENSAIO:	04/09/2023
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h / min

14:00

FINAL DO ENSAIO:

22/09/2023

h / min

16:06

[illegible][illegible]

Classificação de campo:	ARGILA ARENOSO MARRON C/P	Classificação de laboratório:	AREIA SILTOSA MARRON C/PED.	Proctor:	NORMAL
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[illegible]

Classificação de campo:	ARGILA MARRON COM PEDREGULHO	Classificação de laboratório:	ARGILA ARENO SILTOSA MARRON C/PED.	Proctor:	NORMAL
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[illegible]

Classificação de campo:	ARGILA ARENOSO VERMELHA C/P	Classificação de laboratório:	ARGILA ARENO SILTOSA VERMELHA	Proctor:	NORMAL
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[illegible][illegible]

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Preparação de solos - ABNT NBR 6457:16	Análise granulométrica - ABNT NBR 7181:18	Módulo de resiliência - DNIT 134:18 ME
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DATA:	26/09/2023
REL. Nº:	660-011-010-23
O.S Nº:	660-011-PMR12
REV. Nº:	0
FOLHA Nº:	6/72

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CONTROLE DE EXECUÇÃO DO ENSAIO (DATA E HORA)	
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INÍCIO DO ENSAIO:	04/09/2023	h / min	14:00	FINAL DO ENSAIO:	22/09/2023	h / min	16:06
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ESPECIFICAÇÕES - DNIT	137-10	S. LEITO		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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