

DOCUMENTO:

INDAGINI GEOGNOSTICHE

ELABORATI FINALI

Redatto ai sensi della Norma: ISO 22475-1:2006

OGGETTO DEI
LAVORI:

Projekt "FL-UW" - Elektrifizierung Vinschgerbahn
Progetto "FL-UW" - Elettrificazione Ferrovia Val Venosta

CODICE COMMESSA:

NL080.2016

CIG:

68092903DE

COMMITTENTE:

STA – Strutture Trasporto Alto Adige

IMPRESA:

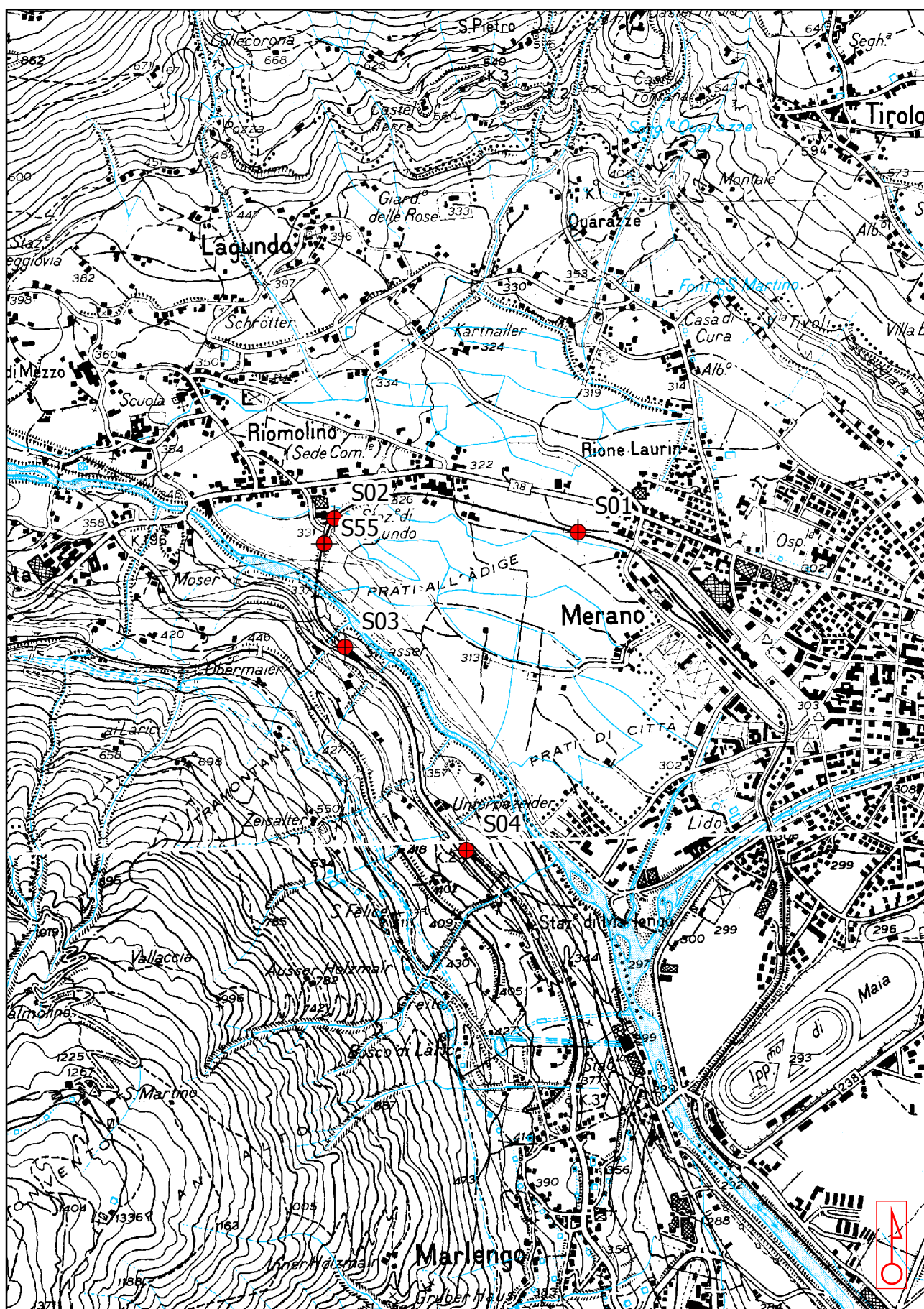
Landservice Srl /Geotec Spa

CONTENUTO:

- Tratto Merano - Marlengo**
- Corografia
 - Monografie
 - Log stratigrafici
 - Fotodocumentazione

Documento	Data	Fase	Note	Nome e firma redattore
Versione n. 1	10.02.2017	Elaborati finali		T. Pinter

Übersicht Corografia



S1

Allegati:

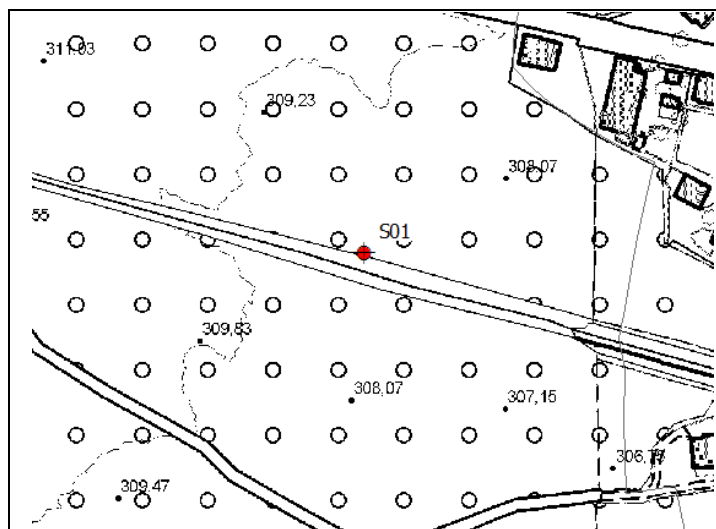
Monografie/Monografia

Bohrprofil/Log Stratigrafico

Fotodokumentation/Fotodocumentazione

MONOGRAFIE DES BOHRPUNKTES SCHEDA MONOGRAFICA DEL PUNTO DI INDAGINE

<u>KOORDINATEN</u>	<u>COORDINATE</u>
<u>UTM ETRS89 ZONE 32N</u>	<u>UTM ETRS89 ZONA 32N</u>
Coord. N = 5 171 557.418 m Coord. E = 663 771.307 m H = 309.430 m.s.m	










TGK/CTR 1:5.000



Ortofoto2011



Foto Positionierung/postazione

Bohrverfahren ø mm	Verrohrung ø mm	Schichtendicke m	Tiefe m	Legende	GESTEINBESCHREIBUNG	T.C.R. %	S.C.R. %	R.Q.D. %	Entnommene Proben	FELDVERSUCHE								BEMERKUNGEN																		
										Standard Penetration Test						BHTV	Aufweitungsvers.		Quote GW m	Piezometer																
										Tiefe	Nr. Schläge			N.S.P.T.	Art der Spitze																					
											0-15 cm	15-30 cm	30-45 cm																							
Einfachkernrohr ø 101 mm	ø 127 mm	0.15	0.15		Mutterboden, Sand, schluffig, sehr schwach kiesig, organisch	100														Koordinaten RSY: UTM WGS84 Meridianstreifen 32N																
		0.45	0.60		Anschüttung, Schluff, schwach sandig, sehr schwach kiesig, mit Ziegelbruchstücken, leicht bindig, dicht, braun																															
			1		Sand, mittelsandig, feinsandig, abschnittsweise leicht schluffig, leicht bindig, hellbraun – ocker																1.50	100														
			2																																	
			3																																	
			4																																	
		3.9	4.50																		4.50	100														
			5		Sand, stark feinsandig, stark kiesig, Komponenten kantengerundet – gerundet, hellbraun – grau																															
		1.3	5.80	6																	Sand, stark feinsandig, kiesig, steinig, Komponenten gerundet, hellbraun – grau	6.00	100													
			7																																	
				7.50																																
			8																																	
			9	9.00																																
			10	10.50																																
			11	100																																
		5.6	11.40																		100	100														
			12		Sand, mittelsandig, stark kiesig, steinig, Komponenten gerundet, plattig – kubisch																															
			13																		13.50	100														
		2.3	13.70																																	
		0.3	14.00																		Kies, Steine, Blöcke, Komponenten: mylonit. Paragneis, Orthogneis, kantig – kantengerundet, plattig – kubisch (t.w. zerbohrt)	100														
		14.00	15.00																		15.00															

GEOTEC SPA

COMMITTENTE: STA – Strut. Trasporto Alto Adige

PROGETTO: "FL–UW" – Elettrif. Ferrovia Val Venosta

LOCALITÀ: Lagundo: km–ferroviario 32+270

DATA ESECUZIONE: DAL 31.01 AL 31.01.2017

SONDAGGIO Nr. S1

N: 5 171 557.418 m

E: 663 771.307 m

Z=ms.l.m= 309.430

SCALA 1:50

Foglio 1/1

SUPERVISORE: DR. M. MARTINTONI

SONDATORE: SIG S. ERENNIO

TIPO DI SONDA:SAME ELETTARI AS618

Tipo di carot. e ø mm		Rivestimento e ø mm		Spessore strato m		Profondita' m		Legenda		DESCRIZIONE LITOLOGICA		T.C.R. %		S.C.R. %		R.Q.D. %		Campioni		PROVE IN SITU								NOTE ED OSSERVAZIONI							
																				Standard Penetration Test						BHTV				Dilatometria		Quota falda m		Piezometro	
																				Profondita'	Nr. Colpi			N.S.P.T.	Tipo di punta										
																					0-15 cm	15-30 cm	30-45 cm												
Carotiere semplice ø 101 mm		ø 127 mm		0.15	0.15		Terreno vegetale, Sabbia, limosa, molto debolmente ghiaiosa, organico	100	1.50	100	3.00	3.00	4	5	5	10	C							Coordinate SDR: UTM WGS84 Fuso 32N											
				0.45	0.60		Riporto, Limo, debolmente sabbioso, molto debolmente ghiaioso, con laterizi, debolmente coesivo, duro, marrone																												
						1																			Sabbia, sabbia media, sabbia fine, a luogo debolmente limoso, marrone chiaro - ocra										
						2																													
						3																													
						4																													
				3.9	4.50																				4.50										
						5																			Sabbia, principalmente fine, fortemente ghiaioso, componenti subarrotondati - arrotondati, marrone chiaro - grigio										
				1.3	5.80																				6.00										
						6																			Sabbia, principalmente fine, ghiaioso, ciottoloso, componenti arrotondati, marrone chiaro - grigio										
						7																			100										
						8																			7.50										
						9																			100										
						10																			9.00										
						11																			100										
				5.6	11.40																				100										
						12																			Sabbia, principalmente media, fortemente ghiaioso, ciaottoloso, componenti arrotondati, appiattiti - cubici										
						13																			100										
				2.3	13.70																				13.50										
				0.3	14.00																				Sabbia, principalmente fine, fortemente ghiaiosa										
																									Ghiaia, ciottoli, blocchi, Litologie: milonite. paragneiss, ortogneiss, angolari - subangolari, appiattiti - cubici (in parte tritati)										
				14.00	15.00																				FONDO FORO 15.00m										

Fotodocumentazione



Algund I/Lagundo I: S2 – Box 1 – m 0.00 ÷ m 5.00



Algund I/Lagundo I: S2 – Box 2 – m 5.00 ÷ m 10.00

Fotodocumentazione



Algund I/Lagundo I: S2 – Box 3 – m 10.00 ÷ m 15.00

S2

Allegati:

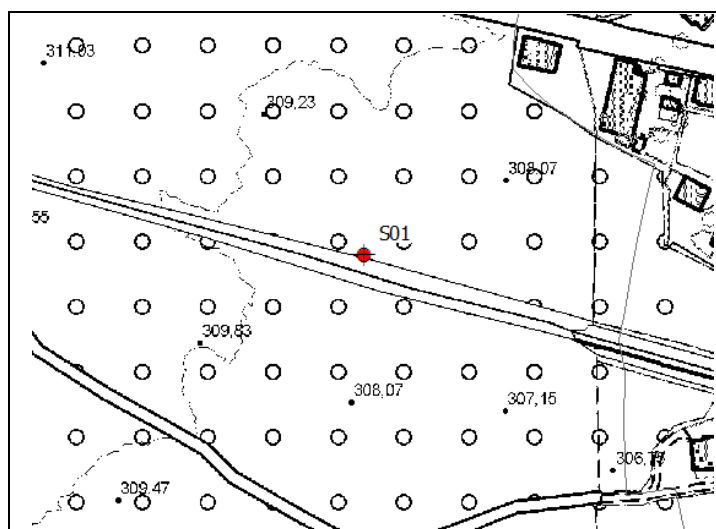
Monografie/Monografia

Bohrprofil/Log Stratigrafico

Fotodokumentation/Fotodocumentazione

MONOGRAFIE DES BOHRPUNKTES SCHEDA MONOGRAFICA DEL PUNTO DI INDAGINE

<u>KOORDINATEN</u>	<u>COORDINATE</u>
<u>UTM ETRS89 ZONE 32N</u>	<u>UTM ETRS89 ZONA 32N</u>
Coord. N = 5 171 557.418 m Coord. E = 663 771.307 m H = 309.430 m.s.m	




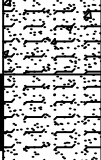
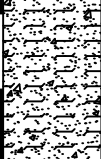


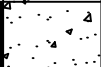
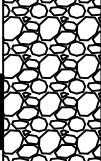
TGK/CTR 1:5.000

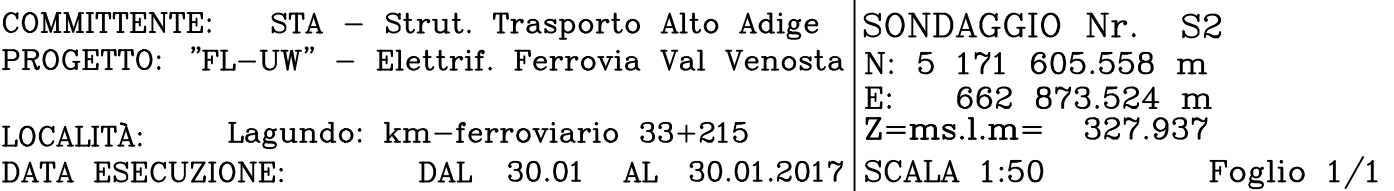


Ortofoto2011



Foto Positionierung/postazione

Bohrverfahren ø mm	Verrohrung ø mm	Schichtendicke m	Tiefe m	Legende	GESTEINBESCHREIBUNG	T.C.R. %	S.C.R. %	R.Q.D. %	Entnommene Proben	FELDVERSUCHE								BEMERKUNGEN		
										Standard Penetration Test						BHTV	Aufweitungsvers.		Quote GW m	Piezometer
										Tiefe	Nr. Schläge			N.S.P.T.	Art der Spitze					
											0-15 cm	15-30 cm	30-45 cm							
Einfachkernrohr ø 101 mm	ø 127 mm		1		Anschüttung, Sand, kiesig, schwach schluffig, schwach organisch, sehr schwach steinig, bis 4,50m: Ziegelbruchstücke, zw. 0 – 0,60m: organisch, dunkelbraun – braun, ab 0,6m: grau	100												Koordinaten RSY: UTM WGS84 Meridianstreifen 32N		
		1.50																		
		2																		
		3																		
		4																		
		4.50	4.50																	
		0.50	5.00		Anschüttung, Kiessand, schluffig, sehr schwach tonig, organisch, Matrix leicht bindig, organisch, mit Wurzeln, dunkelbraun	100														
		6																		
		6.00																		
		7																		
		2.40	7.40																	
					Sand, kiesig, schluffig, sehr schwach tonig, Komponenten kantengerundet – gerundet, kubisch – plattig, Matrix leicht bindig, dunkelbraun – braun	7.50														
		8																		
		9																		
		9.00																		
		100																		
		2.60	10.00																	
			Kies, stark mittelkiesig, stark grobkiesig, sandig, schwach steinig, Komponenten gerundet – gut gerundet, kugelig – plattig, schlecht sortiert, grau	10.50																
1.50	11.50																			
0.50	12.00		Sand, schwach kiesig, grau	12.00																
0.50	12.50		Kies, stark mittelkiesig, stark grobkiesig, sandig, schwach steinig																	
	13		Blöcke, Steine, grobblockige Ablagerungen, polymikt, gebänderter Paragneis, Quarzit, Amphibolit, helle Orthogneise	100																
	14																			
2.50	15.00		ENDTEUFE 15.00m	15.00																



SUPERVISORE: DR. M. MARTINTONI SONDATORE: SIG S. ERENNIO TIPO DI SONDA:SAME ELETTARI AS618

[illegible]

Fotodocumentazione



Algund I/Lagundo I: S2 – Box 1 – m 0.00 ÷ m 5.00



Algund I/Lagundo I: S2 – Box 2 – m 5.00 ÷ m 10.00

Fotodocumentazione



Algund I/Lagundo I: S2 – Box 3 – m 10.00 ÷ m 15.00

S3

Allegati:

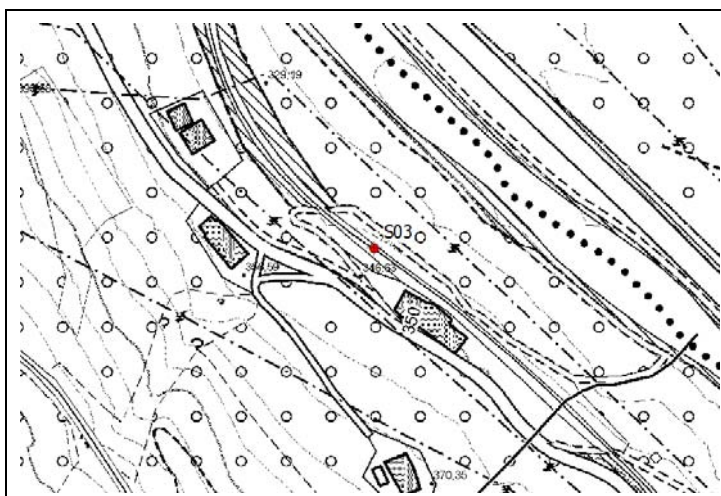
Monografie/Monografia

Bohrprofil/Log Stratigrafico

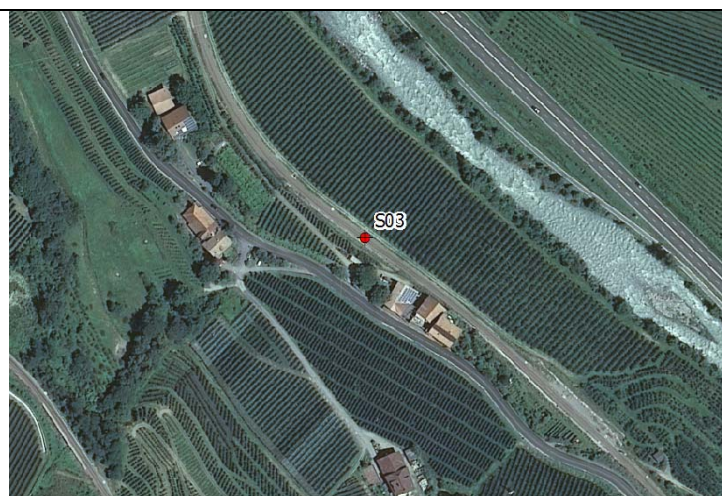
Fotodokumentation/Fotodocumentazione

MONOGRAFIE DES BOHRPUNKTES SCHEDA MONOGRAFICA DEL PUNTO DI INDAGINE

<u>KOORDINATEN</u>	<u>COORDINATE</u>
<u>UTM ETRS89 ZONE 32N</u>	<u>UTM ETRS89 ZONA 32N</u>
Coord. N = 5 171 132.757 m Coord. E = 662 912.714 m H = 340.964 m.s.m	



TGK/CTR 1:5.000






































Ortofoto2011



Foto Positionierung/postazione

Tipo di carot. e ø mm	Rivestimento e ø mm	Spessore strato m	Profondita' m	Legenda	DESCRIZIONE LITOLOGICA	Länge Bohrmanöver	TCR [%]	SCR [%]	RQD [%] ogni m	<5 cm	5-10 cm	>10 cm	Verwitterungsgrad V0 – V4	Trennflächenabstand Z0 – Z4	BHTV	Dilatometerversuch	Lugeon	Piezometer	BEMERKUNGEN
						010001000100													
Einfachkernrohr ø 101 mm ø 127 mm		0.20	0.20		Anschüttung, Kies, grobkiesig, Gleisschotter	100													Koordinaten RSY: UTM WGS84 Meridianstreifen 32N SPT mt 3.00: Art der Spitze: C 0-15 cm: 13 15-30 cm: 32 30-45 cm: rif
		0.50	0.70		Anschüttung, Feinsand, kiesig, Komponenten kantig, hellbraun														
			1		Sand, stark kiesig, schluffig, Komponenten kantengerundet, braun														
			2																
		1.80	2.50		Schluff, feinsandig, stark kiesig, Komponenten kantengerundet – gerundet, kubisch – plattig, in feinkörniger, bindiger Matrix, l. plastisch														
			3																
			4																
			2.50		5.00														
Doppelkernrohr ø 101 mm Diamantkrone		0.20	5.20		Blöcke, zerbohrt	100													
		0.30	5.50		Kies, schwach sandig, (Nachbruch in Bohrloch?)														
			6		Paragneis, dunkelgrauer–silbriger, gebänderter bis phyllitischer Paragneis, mit dm–mächtiger Quarzitlage				0			V1	Z2						
			7						72			V0	Z1						
			8						75										
			3.30		8.80			ENDTEUFE 8.80m	8.80	100			35				V1	Z2	
			9																
			10																
			11																
			12																
			13																
			14																
			15																

Tipo di carot. e ø mm	Rivestimento e ø mm	Spessore strato m	Profondita' m	Legenda	DESCRIZIONE LITOLOGICA	T.C.R. %	S.C.R. %	R.Q.D. %	Campioni	PROVE IN SITU										NOTE ED OSSERVAZIONI			
										Profondita'	Standard Penetration Test			N.S.P.T.	Tipo di punta	BHTV	Dilatometria	Quota falda m	Piezometro				
											Nr. Colpi												
											0-15 cm	15-30 cm	30-45 cm										
Carotiere semplice ø 101 mm ø 127 mm		0.20	0.20		Riporto, Ghiaia, princip. grossolana, ferrovi.	100																Coordinate SDR: UTM WGS84 Fuso 32N SPT mt 3.00: tipo punta: C 0-15 cm: 13 15-30 cm: 32 30-45 cm: rif	
		0.50	0.70		Riporto, Sabbia fine, ghiaiosa, componenti angolari, marrone chiaro																		
		1			Sabbia, fortamente ghiaiosa, limosa, componenti subangolari, marrone																		
				1.80	2.50		Limo, sabbioso (fine), fortemente ghiaiosa, componenti subarrotondati - arrotondati, cubici - appiattiti, in matrice fine coesiva, plastico	100															
				3																			
				4																			
				4.50																			
				100																			
				5.00																			
				5.00																			
Carotiere doppio ø 101 mm corona diamante		0.20	5.20		Blocchi, tritati	100																	
		0.30	5.50		Ghiaia, debolmente sabbiosa, (foro crollato?)																		
		6			Paragneiss, grigio scuro-argenteo, a bande fino a paragneiss fillitico, con intercalazione di quarzite dm-ica																		
				7				100			0				V1	Z2							
				8				100			72				V0	Z1							
				8.00				100			75				V1	Z2							
		3.30	8.80		FONDO FORO 8.80m	8.80	100			35													
		9																					
		10																					
		11																					
		12																					
		13																					
		14																					
15																							

Fotodocumentazione



Marling/Marlengo: S3 – Box 1 – m 0.00 ÷ m 5.00



Marling/Marlengo: S3 – Box 2 – m 5.00 ÷ m 8.80

S4

Allegati:

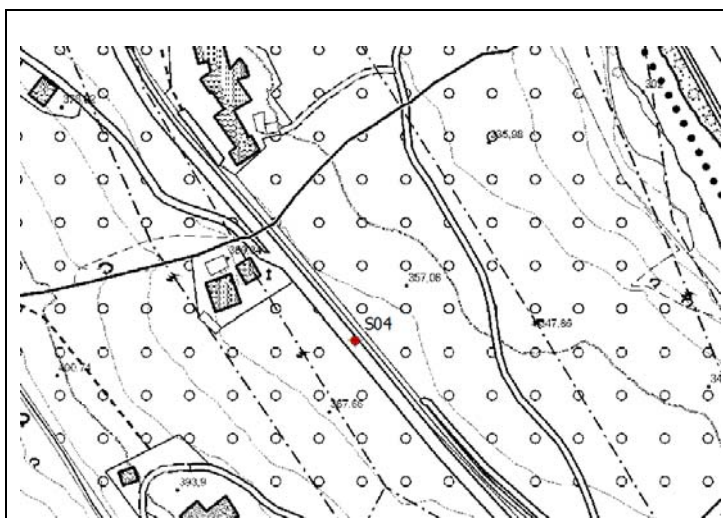
Monografie/Monografia

Bohrprofil/Log Stratigrafico

Fotodokumentation/Fotodocumentazione

MONOGRAFIE DES BOHRPUNKTES SCHEDA MONOGRAFICA DEL PUNTO DI INDAGINE

<u>KOORDINATEN</u>	<u>COORDINATE</u>
<u>UTM ETRS89 ZONE 32N</u>	<u>UTM ETRS89 ZONA 32N</u>
Coord. N = 5 170 385.254 m Coord. E = 663 360.181 m H = 365.316 m.s.m	



TGK/CTR 1:5.000



Ortofoto2011



Foto Positionierung/postazione





















Fotodocumentazione



Marling/Marlengo: S4 – Box 1 – m 0.00 ÷ m 5.00



Marling/Marlengo: S4 – Box 2 – m 5.00 ÷ m 10.00

Bohrverfahren ø mm	Verrohrung ø mm	Schichtendicke m	Tiefe m	Legende	GESTEINBESCHREIBUNG	T.C.R. %	S.C.R. %	R.Q.D. %	Entnommene Proben	FELDVERSUCHE							BEMERKUNGEN			
										Standard Penetration Test					BHTV	Aufweitungsvers.		Quote GW m	Piezometer	
										Tiefe	Nr. Schläge			N.S.P.T.						Art der Spitze
											0-15 cm	15-30 cm	30-45 cm							
Einfachkernrohr ø 101 mm	ø 127 mm	0.35	0.35		Beton, hellgrau bis bräunlich												Koordinaten RSY: UTM WGS84 Meridianstreifen 32N			
		0.45	0.80		Anschüttung, Feinsand, sandig, stark kiesig, steinig, Komponenten kantig, hellgrau	100														
			1		Anschüttung, Sand, stark kiesig, Komponenten kantig, plattig, dunkelgrau	1.50														
		1.10	1.90		Anschüttung, Sand, stark kiesig, schwach schluffig, Komponenten kantengerundet – kantig, braungrau	100														
		0.80	2.70		Anschüttung, Schluff, tonig, schwach kiesig, Komponenten kantengerundet, Matrix dicht, leicht plastisch, erdbraun – leicht rötlich, nach unten hin: ocker, Abnahme Tongehalt, leicht plastisch	3.00				3.00	5	7	7	14	A					
			4			100														
		1.70	4.40			4.50														
			5		Anschüttung, Sand, kiesig, schwach schluffig, mit Asphaltbruchstücken, Komponenten kantengerundet, z.T. verdichtet, hellbraun – grau	100														
			6			6.00				6.00	9	22	34	56	C					
			7			100														
			8			7.50														
			9			100														
			10			9.00				9.00	13	27	38	65	C					
			11			100														
			12			10.50														
		6.60	11.00			100														
			12		Schluff, feinsandig, feinkiesig, mittelkiesig, schwach tonig, Komponenten kantengerundet, zw. 11-12m: verbacken, halbfest; ab 12m: Matrix breiig, graubraun, zw. 15-15,50m: Kies, sandig, stark schluffig	12.00				12.00	6	21	30	51	C					
			13			100														
			14			13.50														
		6.50	17.50		ENDTEUFE 17.50m	17.50														

<div>GEOTEC SPA</div>					COMMITTENTE: STA – Strut. Trasporto Alto Adige PROGETTO: "FL-UW" – Elettrif. Ferrovia Val Venosta LOCALITÀ: Marleno: km-ferroviario 34+630 DATA ESECUZIONE: DAL 26.01 AL 26.01.2017					SONDAGGIO Nr. S4 N: 5 170 385.254 m E: 663 360.181 m Z=ms.l.m= 365.316 SCALA 1:50 Foglio 1/1																																																																																																																																																																																																																																																																																																																																																									
SUPERVISORE: DR. M. MARTINTONI					SONDATORE: SIG S. ERENNIO					TIPO DI SONDA:SAME ELETTARI AS618																																																																																																																																																																																																																																																																																																																																																									
<table><tr><th rowspan="4">Tipo di carot. e ø mm</th><th rowspan="4">Rivestimento e ø mm</th><th rowspan="4">Spessore strato m</th><th rowspan="4">Profondità' m</th><th rowspan="4">Legenda</th><th rowspan="4">DESCRIZIONE LITOLOGICA</th><th rowspan="4">T.C.R. %</th><th rowspan="4">S.C.R. %</th><th rowspan="4">R.Q.D. %</th><th rowspan="4">Campioni</th><th colspan="7">PROVE IN SITU</th><th rowspan="4">NOTE ED OSSERVAZIONI</th></tr><tr><th colspan="5">Standard Penetration Test</th><th rowspan="3">Tipo di punta</th><th rowspan="3">BHTV</th><th rowspan="3">Dilatometria</th><th rowspan="3">Quota falda m</th><th rowspan="3">Piezometro</th></tr><tr><th rowspan="2">Profondità'</th><th colspan="3">Nr. Colpi</th><th rowspan="2">N.S.P.T.</th></tr><tr><th>0-15 cm</th><th>15-30 cm</th><th>30-45 cm</th></tr></table>															Tipo di carot. e ø mm	Rivestimento e ø mm	Spessore strato m	Profondità' m	Legenda	DESCRIZIONE LITOLOGICA	T.C.R. %	S.C.R. %	R.Q.D. %	Campioni	PROVE IN SITU							NOTE ED OSSERVAZIONI	Standard Penetration Test					Tipo di punta	BHTV	Dilatometria	Quota falda m	Piezometro	Profondità'	Nr. Colpi			N.S.P.T.	0-15 cm	15-30 cm	30-45 cm																																																																																																																																																																																																																																																																																																																	
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<table><tr><td rowspan="20">Carotiere semplice ø 101 mm</td><td rowspan="20">ø 127 mm</td><td>0.35</td><td>0.35</td><td rowspan="20"></td><td>Cls, grigio chiaro a marroncino</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="20">Coordinate SDR: UTM WGS84 Fuso 32N</td></tr><tr><td>0.45</td><td>0.80</td><td>Riporto, Sabbia fine, fortemente ghiaiosa, ciottolosa, componenti angolari, grigio chiaro</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>Riporto, Sabbia, fortemente ghiaiosa, componenti angolari, appiattiti, grigio scuro</td><td>1.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.10</td><td>1.90</td><td>Riporto, Sabbia, fortemente ghiaiosa, debolmente limosa, componenti subarrotondati - angolari, grigio marrone</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>0.80</td><td>2.70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>Riporto, Limo, argilloso, debolmente ghiaioso, componenti subarrotondati, matrice addensata, leggermente plastico, marrone terroso - debolmente rossastro, verso la base: ocra, diminuzione della frazione argillosa, leggermente plastico</td><td>3.00</td><td></td><td></td><td></td><td></td><td>3.00</td><td>5</td><td>7</td><td>7</td><td>14</td><td>A</td><td></td><td></td></tr><tr><td></td><td>4</td><td></td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.70</td><td>4.40</td><td></td><td>4.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>Ripoto, Sabbia, ghiaiosa, debolmente limosa, con frammenti di asfalto, componenti subarrotondati, i.p. addensati, marrone chiaro - grigio</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td></td><td>6.00</td><td></td><td></td><td></td><td></td><td>6.00</td><td>9</td><td>22</td><td>34</td><td>56</td><td>C</td><td></td><td></td></tr><tr><td></td><td>7</td><td></td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td></td><td>7.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td></td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td></td><td>10.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6.60</td><td>11.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>Limo, sabbioso (fine), ghiaioso (fine), debolmente argilloso, componenti subarrotondati, tra. 11-12m: mediamente consistente; da 12m: matrice tenera, grigio marrone, tra. 15-15,50m: Ghiaia, sabbiosa, fortemente limosa</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>13</td><td></td><td>12.00</td><td></td><td></td><td></td><td></td><td>12.00</td><td>6</td><td>21</td><td>30</td><td>51</td><td>C</td><td></td><td></td></tr><tr><td></td><td>14</td><td></td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>13.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6.50</td><td>17.50</td><td></td><td></td><td>FONDO FORO 17.50m</td><td>17.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>															Carotiere semplice ø 101 mm	ø 127 mm	0.35	0.35		Cls, grigio chiaro a marroncino														Coordinate SDR: UTM WGS84 Fuso 32N	0.45	0.80	Riporto, Sabbia fine, fortemente ghiaiosa, ciottolosa, componenti angolari, grigio chiaro	100														1	Riporto, Sabbia, fortemente ghiaiosa, componenti angolari, appiattiti, grigio scuro	1.50														1.10	1.90	Riporto, Sabbia, fortemente ghiaiosa, debolmente limosa, componenti subarrotondati - angolari, grigio marrone	100													0.80	2.70																3	Riporto, Limo, argilloso, debolmente ghiaioso, componenti subarrotondati, matrice addensata, leggermente plastico, marrone terroso - debolmente rossastro, verso la base: ocra, diminuzione della frazione argillosa, leggermente plastico	3.00					3.00	5	7	7	14	A				4		100													1.70	4.40		4.50														5	Ripoto, Sabbia, ghiaiosa, debolmente limosa, con frammenti di asfalto, componenti subarrotondati, i.p. addensati, marrone chiaro - grigio	100														6		6.00					6.00	9	22	34	56	C				7		100														8		7.50														9		100														10		10.50													6.60	11.00																12	Limo, sabbioso (fine), ghiaioso (fine), debolmente argilloso, componenti subarrotondati, tra. 11-12m: mediamente consistente; 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LO SPERIMENTATORE

IL DIRETTORE

STUDIO GEOL. JESACHER

DR. M. MARTINTONI

CERTIFICATO NR. NL068/S/S4/17 del 07.02.2017

Fotodocumentazione



Marling/Marlengo: S4 – Box 3 – m 10.00 ÷ m 15.00



Marling/Marlengo: S4 – Box 3 – m 10.00 ÷ m 17.50


















S55

Allegati:

Monografie/Monografia

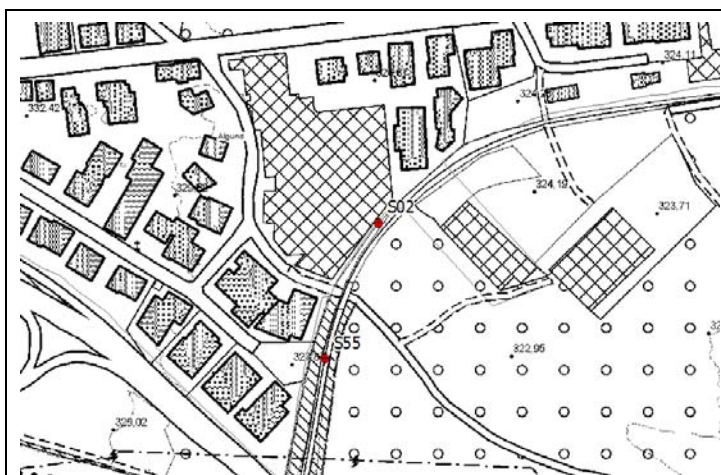
Bohrprofil/Log Stratigrafico

Fotodokumentation/Fotodocumentazione

Bohrverfahren ø mm	Verrohrung ø mm	Schichtendicke m	Tiefe m	Legende	GESTEINBESCHREIBUNG	T.C.R. %	S.C.R. %	R.Q.D. %	Entnommene Proben	FELDVERSUCHE							BEMERKUNGEN			
										Standard Penetration Test					BHTV	Aufweitungsvers.		Quote GW m	Piezometer	
										Tiefe	Nr. Schläge			N.S.P.T.						Art der Spitze
											0-15 cm	15-30 cm	30-45 cm							
Einfachkernrohr ø 101 mm ø 127 mm			0.30	0.30		Anschüttung, Kies, Gleisschotter	100													Koordinaten RSY: UTM WGS84 Meridianstreifen 32N
				1		Anschüttung, Feinsand, schwach schluffig, schwach kiesig, rötlich - grau, Komponenten kantig														
			1.05	1.35			1.50													
				2		Anschüttung, Sand, stark feinsandig, stark schluffig, schwach kiesig, schwach organisch	100													
				3			3.00													
				4			100													
			2.75	4.10			4.50													
				5		Sand, stark feinsandig, stark schluffig, schwach kiesig, schwach organisch, Komponenten gerundet, Matrix leicht bindig, grau - braun	100													
						mt 6.00-6.10: Kies, Steine, zerbohrte Steine	6.00													
			2.00	6.10																
			0.30	6.40		Schluff, dunkelgrau														
				7		Blöcke, dunkelgrauer Paragneis	100													
			0.70	7.10																
				8		Sand, mittelsandig, grobsandig, kiesig, dunkelgrau	7.50													
			1.00	8.10																
			0.30	8.40		Blöcke, Steine, gebänderter Paragneis, heller grobkristalliner Aplit?	100													
				9		Sand, grobsandig, stark kiesig, schwach steinig, schwach schluffig, Komponenten kantengerundet, überwiegend plattig, dunkelgrau	9.00													
			1.50	9.90			100													
						Schluff, schwach tonig, schwach sandig, schwach kiesig, leicht bindig, steif	10.50													
			1.10	11.00																
			0.50	11.50		Schluff, kiesig, schwach sandig, Komponenten kantengerundet - gerundet, braun	100													
				12		Kies, sehr schwach sandig, sehr schwach schluffig, Komponenten gerundet	12.00													
			1.00	12.50																
			0.50	13.00		Steine; Kies, schluffig, schwach sandig; Blöcke an der Basis	100													
						Kies, sandig, schwach schluffig, schwach steinig	13.50													
				14			100													
			1.60	14.60																
			0.40	15.00		Blöcke, dunkelgrauer gebänderter Paragneis														
						ENDTEUFE 15.00m	15.00													

MONOGRAFIE DES BOHRPUNKTES SCHEDA MONOGRAFICA DEL PUNTO DI INDAGINE

<u>KOORDINATEN</u>	<u>COORDINATE</u>
<u>UTM ETRS89 ZONE 32N</u>	<u>UTM ETRS89 ZONA 32N</u>
Coord. N = 5 171 514.424 m Coord. E = 662 837.603 m H = 330.501 m.s.m	



TGK/CTR 1:5.000



Ortofoto2011



Foto Positionierung/postazione

Fotodocumentazione



Algund I/Lagundo I: S55 – Box 1 – m 0.00 ÷ m 5.00



Algund I/Lagundo I: S55 – Box 2 – m 5.00 ÷ m 10.00

Fotodocumentazione



Algund I/Lagundo I: S55 – Box 3 – m 10.00 ÷ m 15.00