



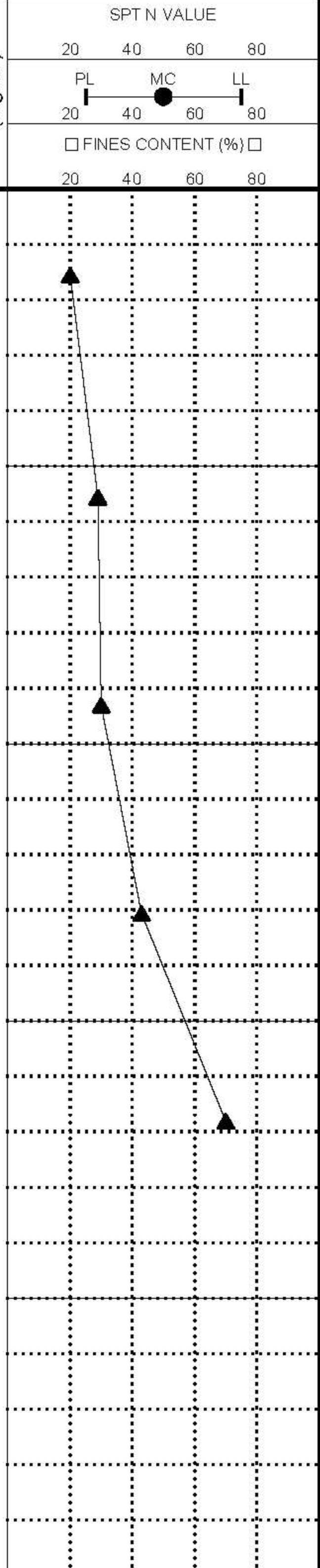
Edifica Colombia Ltda  
 Cra 48 No. 98-57  
 Bogotá D.C. Colombia  
 Telephone: (057) 5086013  
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# BORING NUMBER BH-02

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE PROJECT NAME PUERTO AGUADULCE  
 PROJECT NUMBER 13016 PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA  
 DATE STARTED 24/6/13 COMPLETED 28/6/13 GROUND ELEVATION -3.8 m 0 HOLE SIZE HQ  
 DRILLING CONTRACTOR Edifica Colombia Ltda GROUND WATER LEVELS:  
 DRILLING METHOD Drilling with TP-50D ▽ AT TIME OF DRILLING -4.00 m / Elev 0.20 m  
 LOGGED BY Roberto Nieves CHECKED BY Luis F Vesga ▼ AT END OF DRILLING -7.00 m / Elev 3.20 m  
 NOTES Offshore borehole AFTER DRILLING --

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (kPa)	DRY UNIT WT. (Mg/m <sup>3</sup> )	SPT N VALUE			
								PL	MC	LL	
		(MH) SILT, dark gray, high plasticity, moist	SH 1	100							
		(ML) SILT, dark gray, low plasticity, dense	SPT 2	100	5-8-12 (20)						
2			SPT 3	100	5-9-20 (29)						
4			SPT 4	100	2-9-21 (30)						
6			SPT 5	100	9-13-30 (43)						
8		No recovery. Soft Rock	SPT 6	100	10-20-50 (70)						
10			RC 7	0 (0)							

Preliminary



GEOECHIBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 29/6/13



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								20	40	60	80		
12	[Dotted pattern]	No recovery. Soft Rock. Wash sample. Sandstone dark gray, friable	RC 8	0 (0)									
14			RC 9	0 (0)									
16			RC 10	0 (0)									
18			RC 11	0 (0)									
20													

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								20	40	60	80		
22	[Dotted pattern]	No recovery. Soft Rock. Wash sample. Sandstone dark gray, friable (continued)											
24			RC 12	0 (0)									
26			RC 13	0 (0)									
28			RC 14	0 (0)									
30													

Bottom of borehole at 30.00 meters.

GEOTECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 29/6/13

Preliminary