



Edifica Colombia Ltda
 Cra 48 No. 98-57
 Bogotá D.C. Colombia
 Telephone: (057) 5086013
 Fax: (057) 2362121

BORING NUMBER BH-05

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE PROJECT NAME PUERTO AGUADULCE
 PROJECT NUMBER 13016 PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA
 DATE STARTED 15/6/13 COMPLETED 18/6/13 GROUND ELEVATION -10 m 0 HOLE SIZE HQ
 DRILLING CONTRACTOR Edifica Colombia Ltda GROUND WATER LEVELS:
 DRILLING METHOD Drilling with TP-50D AT TIME OF DRILLING --- 11.0m
 LOGGED BY Roberto Nieves CHECKED BY Luis F Vesga AT END OF DRILLING --- 9.0m
 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 ³)	SPT N VALUE			
								PL	MC	LL	
0 - 0.5		(SP) SAND, poorly graded, fine grained, dark gray	SPT 1	100	13-27-28 (55)						
0.5 - 2.0		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 2	100	1-4-13 (17)						
2.0 - 3.5		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 3	100	4-19-33 (52)						
3.5 - 5.5		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 4	100	4-22-46 (68)						
5.5 - 8.0		(ML) Sandy SILT, dark gray, low plasticity, moist	RC 5	0 (0)							
8.0 - 8.5		(SP) SAND, poorly graded, fine grained, dark gray	SPT 6	100	6-24-50 (74)						
8.5 - 10.0		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 7	100	8-19-50 (69)						

GEOECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 19/6/13

(Continued Next Page)



Edifica Colombia Ltda
 Cra 48 No. 98-57
 Bogotá D.C. Colombia
 Telephone: (057) 5086013
 Fax: (057) 2362121

BORING NUMBER BH-05

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE

PROJECT NAME PUERTO AGUADULCE

PROJECT NUMBER 13016

PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA

GEOTECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 19/6/13

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (kPa)	DRY UNIT WT. (Mg/m ³)	SPT N VALUE				
								20	40	60	80	
		(ML) Sandy SILT, dark gray, low plasticity, moist <i>(continued)</i>										
			SPT 8	100	4-18-43 (61)							
12		(ML) SILT, dark gray, low plasticity, moist	SPT 9	100	2-7-9 (16)							
14		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 10	100	4-5-24 (29)							
16			SPT 11	100	3-2-11 (13)							
18		Siltstone, dark gray, fractured, fresh	SPT 12	100	5-50							
20		Sandstone, dark gray, fractured, friable, fresh	RC 13	22 (0)								

(Continued Next Page)



Edifica Colombia Ltda
 Cra 48 No. 98-57
 Bogotá D.C. Colombia
 Telephone: (057) 5086013
 Fax: (057) 2362121

BORING NUMBER BH-05

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE

PROJECT NAME PUERTO AGUADULCE

PROJECT NUMBER 13016

PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (kPa)	DRY UNIT WT. (Mg/m ³)	SPT N VALUE											
								20	40	60	80								
22		Sandstone, dark gray, fractured, friable, fresh (continued)	RC 14	37 (28)															
24		No recovery. Soft rock. Sandstone, dark gray, friable																	
26				RC 15	0 (0)														
28				RC 16	0 (0)														
30																			
32			RC 17	0 (0)															

GEOECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 19/6/13

(Continued Next Page)



Edifica Colombia Ltda
 Cra 48 No. 98-57
 Bogotá D.C. Colombia
 Telephone: (057) 5086013
 Fax: (057) 2362121

BORING NUMBER BH-05

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE

PROJECT NAME PUERTO AGUADULCE

PROJECT NUMBER 13016

PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA

DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (kPa)	DRY UNIT WT. (Mg/m ³)	SPT N VALUE				
								20	40	60	80	
34		No recovery. Soft rock. Sandstone, dark gray, friable (continued)	RC 18	0 (0)								
36												
38			RC 19	0 (0)								
40			RC 20	0 (0)								

Bottom of borehole at 40.00 meters.

GEOTECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 19/6/13

Preliminary



EDIFICA
COLOMBIA LTDA

GEOTECHNICAL INVESTIGATION FOR SPIA.
BOREHOLE BH-05

PHOTOGRAPHIC RECORD ROCK CORES



Preliminary