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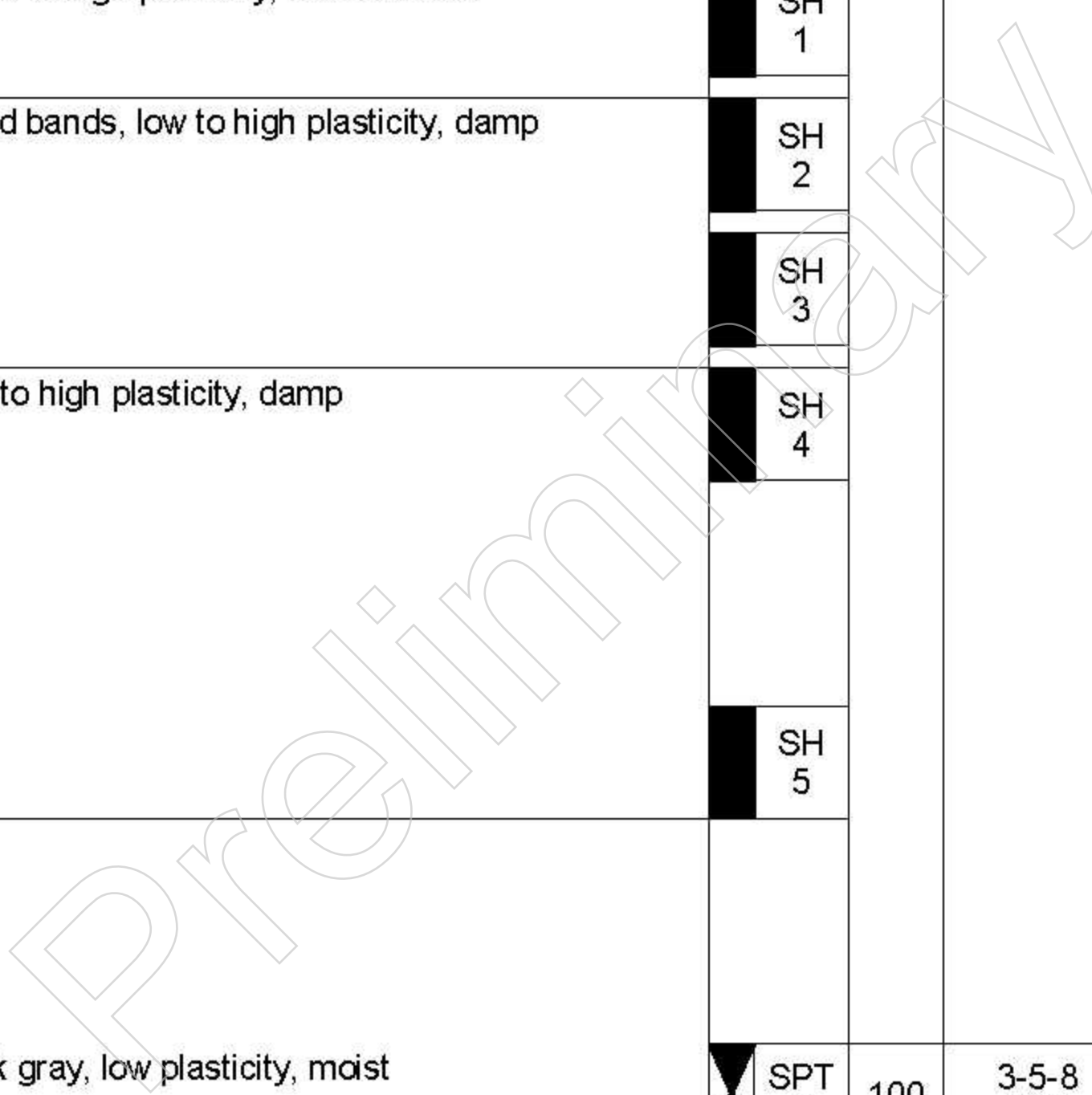
BORING NUMBER BH-21

CLIENT SPIA - SOCIEDAD PUERTO INDUSTRIAL AGUADULCE PROJECT NAME PUERTO AGUADULCE
 PROJECT NUMBER 13016 PROJECT LOCATION AGUADULCE, BUENAVENTURA, COLOMBIA
 DATE STARTED 29/6/13 COMPLETED 30/6/13 GROUND ELEVATION 15 m 0 HOLE SIZE NQ
 DRILLING CONTRACTOR Edifica Colombia Ltda GROUND WATER LEVELS:
 DRILLING METHOD Rig XY1 ▽ AT TIME OF DRILLING 1.20 m / Elev 13.80 m
 LOGGED BY Roberto Nieves CHECKED BY Luis F Vesga ▼ AT END OF DRILLING 1.00 m / Elev 14.00 m
 NOTES Upland 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				
								20	40	60	80	
0		(CH) CLAY, yellow, low to high plasticity, low moisture	SH 1									
1		(CH) CLAY, yellow, red bands, low to high plasticity, damp	SH 2									
2		(CH) CLAY, gray, low to high plasticity, damp	SH 3									
3			SH 4									
4			SH 5									
5		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 6	100	3-5-8 (13)							
6		(CL-ML) Clayey SILT, dark gray, low plasticity, moist	SPT 7	100	7-7-16 (23)							
7		(ML) Sandy SILT, dark gray, low plasticity, moist	SPT 8	100	14-19-34 (53)							
8		Siltstone, dark gray, fresh, fractured	RC 9	93 (60)								
10												

Bottom of borehole at 10.00 meters.

GEOECHBHPLOTS GEOTECHNICAL INVESTIGATION FOR SPIA. TEST BORINGS LOGS.GPJ GINT STD CANADA LAB.GDT 3/7/13





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GEOTECHNICAL INVESTIGATION FOR SPIA.
BOREHOLE BH-21

PHOTOGRAPHIC RECORD ROCK CORES



Preliminary