






















MEMORIA DE SONDEOS

PROYECTO:	ESTUDIO DE RIESGO, AMENAZA Y VULNERABILIDAD DEL SECTOR PUENTE CAMACHO
PERFORACION:	S1 - S2 - S3
LOCALIZACION:	SECTOR PUENTE CAMACHO DEL MUNICIPIO DE RAMIRIQUI - DEPARTAMENTO DE BOYACA
FECHA:	ABRIL 4 DE 2013
	inalterada
	alterada

SONDEO / APIQUE N°	MUESTRA N°	TIPO DE MUESTRA	PROF. (m)	COORDENADAS		PROPIEDADES FISICAS SUELOS							RESISTENCIA AL CORTE SUELOS						
				X	Y	Wn (%)	LL	LP	IP	CLASIF (U.S.C.)	PERMEABILIDAD KT	P.T.N° 200 %	φ °	C Kg/cm2	Peso Unitario	λ HUMEDO	λ SECO	COMPRESION INCONFINADA qu	c
1	1		0.80	1,081,244	1,092,166	29.0%	25.27	20.93	4.34	ML-CL		15.136			1.5641	1.3541	1.3683	0.68415	3.0
	2		2.20	1,081,245	1,092,167	34.0%	36.6500	27.78	8.87	ML-CL		33.338			1.9964	1.6736	1.4717	0.7358	4.0
	3		3.50	1,081,246	1,092,168	18.2%	41.4100	17.86	23.55	CL	4.91E-02	40.938			2.0322	1.6855	4.5418	2.2709	1.0
	4		4.75	1,081,247	1,092,169	14.4%	45.69	30.3	15.39	OL		29.312	7.06860	0.6205	1.9297	1.6959	1.9786	0.9893	1.3
	5		6.25	1,081,248	1,092,170	6.0%	32.8400	20	12.84	CL	3.30E-02	33.338			1.9651	1.6931	2.7691	1.3846	2.5
	6		8.75	1,081,249	1,092,171	5.2%	41.85	30.3	11.55	ML-CL		15.105	26.19719	0.9505	2.0125	1.7971	0.9839	0.4920	4.0
	7		9.53	1,081,250	1,092,172	10.4%	28.4	13.04	15.36	CL		23.892			2.0752	1.8887	4.2143	2.1071	4.5
2	1		1.20	1,081,337	1,092,232	13.67%	31.72	16.05	15.67	CL		23.762			1.9078	1.5733	1.1388	0.5694	3.0
	2		2.05	1,081,338	1,092,233	18.23%	24.19	16.98	7.21	CL		26.011			1.9631	1.6710	1.5388	0.7694	3.5
	3		3.25	1,081,339	1,092,234	25.13%	34.74	21.74	13.00	CL		22.165	34.99202	2.605	1.7930	1.5541	1.3560	0.6780	2.5
	4		4.05	1,081,340	1,092,235	16.91%	37.91	15.15	22.76	CL	2.12E-02	24.618			2.2044	1.9088	2.7302	1.3651	3.5
	5		5.00	1,081,341	1,092,236	29.03%	43.63	29.27	14.36	ML-CL		26.756	24.32297	1.4195	2.1237	1.8379	0.9504	0.4752	4.0
	6		6.00	1,081,342	1,092,237	23.75%	44.02	15.56	28.46	CL	1.08E-02	23.69			1.9920	1.5299	0.6812	0.3406	4.5
	7		7.45	1,081,343	1,092,238	55.79%	40.27	12.77	27.50	CL		17.321			2.0548	1.6079	0.7836	0.3918	4.5
3	1		1.90	1,080,772	1,092,128	26.32%	27.11	10.71	16.40	CL		22.413			2.0399	1.6958	1.4350	0.7175	4.0
	2		2.45	1,080,773	1,092,129	22.80%	30.37	14.29	16.08	CL		33.996	31.79891	0.73105	2.0490	1.6398	1.5350	0.7675	4.0
	3		4.45	1,080,774	1,092,130	15.31%	23.2	14.29	8.91	CL	1.97E-02	40.938			2.1876	1.7932	4.6186	2.3093	3.5
	4		5.50	1,080,775	1,092,131	17.56%	33.03	17.86	15.17	CL	4.20E-02	29.312			2.0694	1.7405	2.0515	1.0257	2.5
	5		6.45	1,080,776	1,092,132	27.12%	34.95	12.99	21.96	CL		32.605	29.24883	1.2195	2.0325	1.6850	2.8436	1.4218	1.5