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Borehole ID: **NC-EWDP-23P** (Phase 3)

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/9/2002	BCS00010651-23P-2137	0.00	2.50	Samples collected open hole out of collar. Fine sand. Grading does not apply to SM.
3/9/2002	BCS00010652-23P-2138	2.50	5.00	Samples collected open hole out of collar. Fine sand. Grading does not apply to SM.
3/9/2002	BCS00010653-23P-2139	5.00	7.50	Samples collected open hole out of collar.
3/9/2002	BCS00010654-23P-2140	7.50	10.00	Samples collected open hole out of collar.
3/9/2002	BCS00010655-23P-2141	10.00	12.50	Samples collected open hole out of collar.
3/9/2002	BCS00010656-23P-2142	12.50	15.00	Samples collected open hole out of collar.
3/9/2002	BCS00010657-23P-2143	15.00	17.50	Samples collected open hole out of collar.
3/9/2002	BCS00010658-23P-2144	17.50	20.00	Samples collected open hole out of collar.
3/9/2002	BCS00010659-23P-2145	20.00	22.50	Samples collected open hole out of collar.
3/9/2002	BCS00010660-23P-2146	22.50	25.00	Fine sand. Install 10 3/4" O.D. casing x 20'. Grout with 5 batches of cement: 20 bags cement & 10 bags of W-60. Batches mixed on 55 gal drum. Grading does not apply to SM.
3/9/2002	BCS00010661-23P-2147	25.00	27.50	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010662-23P-2148	27.50	30.00	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010663-23P-2149	30.00	32.50	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010664-23P-2150	32.50	35.00	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010665-23P-2151	35.00	37.50	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010666-23P-2152	37.50	40.00	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010667-23P-2153	40.00	42.50	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010668-23P-2154	42.50	45.00	No split. Grading does not apply to GM or SM.
3/9/2002	BCS00010669-23P-2155	45.00	47.50	No split.
3/9/2002	BCS00010670-23P-2156	47.50	50.00	No split.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/9/2002	BCS00010671-23P-2157	50.00	52.50	No split.
3/9/2002	BCS00010672-23P-2158	52.50	55.00	No split. Stop to add wiper to diverter because of blow by. Stopped at 61.06' at 1651 on 3/9/02.
3/9/2002	BCS00010673-23P-2159	55.00	57.50	No split.
3/9/2002	BCS00010674-23P-2160	57.50	60.00	No split.
3/10/2002	BCS00010675-23P-2161	60.00	62.50	Add slug of bentonite down hole and then dry 1 hour to hold upper hole walls. Pump bentonite down center tube and force up walls of borehole, then air dry before dirlling. Grading does not apply to SM.
3/10/2002	BCS00010676-23P-2162	62.50	65.00	No split.
3/10/2002	BCS00010677-23P-2163	65.00	67.50	No split.
3/10/2002	BCS00010678-23P-2164	67.50	70.00	No split. Grading does not apply to SM.
3/10/2002	BCS00010679-23P-2165	70.00	72.50	No split. Grading does not apply to SM.
3/10/2002	BCS00010680-23P-2166	72.50	75.00	No split. Grading does not apply to SM.
3/10/2002	BCS00010681-23P-2167	75.00	77.50	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample. Using IR-900 cfm auxilliary compression in unsaturated alluvium. Pump shot of bentonite down center tube to force up outside of borehole then air dry before progressing. Grading does not apply to SM.
3/10/2002	BCS00010682-23P-2168	77.50	80.00	Grading does not apply to SM.
3/10/2002	BCS00010683-23P-2169	80.00	82.50	Using IR-900 cfm auxilliary compression in unsaturated alluvium.
3/10/2002	BCS00010684-23P-2170	82.50	85.00	Using IR-900 cfm auxilliary compression in unsaturated alluvium.
3/10/2002	BCS00010685-23P-2171	85.00	87.50	Using IR-900 cfm auxilliary compression in unsaturated alluvium.
3/10/2002	BCS00010686-23P-2172	87.50	90.00	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample.
3/10/2002	BCS00010687-23P-2173	90.00	92.50	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample.
3/10/2002	BCS00010688-23P-2174	92.50	95.00	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample.
3/10/2002	BCS00010689-23P-2175	95.00	97.50	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample.
3/10/2002	BCS00010690-23P-2176	97.50	100.00	Dry sample through cyclone with trap doors then dropped into Gilson splitter - presently full sample.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/10/2002	BCS00010691-23P-2177	100.00	102.50	Full sample out of Gilson splitter.
3/10/2002	BCS00010692-23P-2178	102.50	105.00	Full sample out of Gilson splitter.
3/10/2002	BCS00010693-23P-2179	105.00	107.50	Full sample out of Gilson splitter.
3/10/2002	BCS00010694-23P-2180	107.50	110.00	50% split with Gilson splitter.
3/10/2002	BCS00010695-23P-2181	110.00	112.50	Full sample out of Gilson splitter.
3/10/2002	BCS00010696-23P-2182	112.50	115.00	Full sample out of Gilson splitter.
3/10/2002	BCS00010697-23P-2183	115.00	117.50	50% split with Gilson splitter.
3/10/2002	BCS00010698-23P-2184	117.50	120.00	Full sample out of Gilson splitter.
3/10/2002	BCS00010699-23P-2185	120.00	122.50	Full sample out of Gilson splitter.
3/10/2002	BCS00010700-23P-2186	122.50	125.00	Full sample out of Gilson splitter.
3/10/2002	BCS00010701-23P-2187	125.00	127.50	Full sample from cyclone through Gilson splitter. Munsell color is from wet samples.
3/10/2002	BCS00010702-23P-2188	127.50	130.00	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010703-23P-2189	130.00	132.50	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010704-23P-2190	132.50	135.00	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010705-23P-2191	135.00	137.50	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010706-23P-2192	137.50	140.00	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010707-23P-2193	140.00	142.50	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010708-23P-2194	142.50	145.00	Full sample from cyclone through Gilson splitter.
3/10/2002	BCS00010709-23P-2195	145.00	147.50	Sample was 1/2 Gilson split then they added a +- 1/4 portion of the other 1/2 split.
3/10/2002	BCS00010710-23P-2196	147.50	150.00	Full sample from cyclone through Gilson splitter.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/10/2002	BCS00010711-23P-2197	150.00	152.50	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010712-23P-2198	152.50	155.00	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010713-23P-2199	155.00	157.50	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010714-23P-2200	157.50	160.00	Dry sample through cyclone; then Gilson splitter and take whole volume. Mix shot of bentonite down borehole and air dry.
3/10/2002	BCS00010715-23P-2201	160.00	162.50	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010716-23P-2202	162.50	165.00	Dry sample through cyclone; then Gilson splitter and take whole volume. Grading does not apply to GM.
3/10/2002	BCS00010717-23P-2203	165.00	167.50	1/2 split sample used from Gilson splitter.
3/10/2002	BCS00010718-23P-2204	167.50	170.00	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010719-23P-2205	170.00	172.50	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010720-23P-2206	172.50	175.00	Dry sample through cyclone; then Gilson splitter and take whole volume.
3/10/2002	BCS00010721-23P-2207	175.00	177.50	Sample through cyclone then dropped through Gilson splitter - full sample.
3/10/2002	BCS00010722-23P-2208	177.50	180.00	Sample through cyclone then dropped through Gilson splitter - full sample.
3/10/2002	BCS00010723-23P-2209	180.00	182.50	50% split with Gilson splitter.
3/10/2002	BCS00010724-23P-2210	182.50	185.00	Sample through cyclone then dropped through Gilson splitter - full sample.
3/10/2002	BCS00010725-23P-2211	185.00	187.50	Sample through cyclone then dropped through Gilson splitter - full sample.
3/10/2002	BCS00010726-23P-2212	187.50	190.00	Sample through cyclone then dropped through Gilson splitter - full sample.
3/11/2002	BCS00010727-23P-2213	190.00	192.50	Sample through cyclone then dropped through Gilson splitter - full sample.
3/11/2002	BCS00010728-23P-2214	192.50	195.00	Sample through cyclone then dropped through Gilson splitter - full sample.
3/11/2002	BCS00010729-23P-2215	195.00	197.50	Sample through cyclone then dropped through Gilson splitter - full sample.
3/11/2002	BCS00010730-23P-2216	197.50	200.00	Sample through cyclone then dropped through Gilson splitter - full sample. Injected slug of mud at 200' on 3-11-02 @ 0736 to condition/stabilize hole. Grading does not apply to GM.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/11/2002	BCS00010731-23P-2217	200.00	202.50	No sample split.
3/11/2002	BCS00010732-23P-2218	202.50	205.00	No sample split.
3/11/2002	BCS00010733-23P-2219	205.00	207.50	50% sample split.
3/11/2002	BCS00010734-23P-2220	207.50	210.00	50% sample split.
3/11/2002	BCS00010735	210.00	212.50	50% sample split.
3/11/2002	BCS00010736	212.50	215.00	No sample split.
3/11/2002	BCS00010737	215.00	217.50	50% sample split.
3/11/2002	BCS00010738	217.50	220.00	No sample split.
3/11/2002	BCS00010739	220.00	222.50	No sample split.
3/11/2002	BCS00010740	222.50	225.00	50% sample split. Grading does not apply to SM.
3/11/2002	BCS00010741	225.00	227.50	No sample split.
3/11/2002	BCS00010742	227.50	230.00	No sample split.
3/11/2002	BCS00010743	230.00	232.50	50% split.
3/11/2002	BCS00010744	232.50	235.00	50% split.
3/11/2002	BCS00010745	235.00	237.50	No sample split.
3/11/2002	BCS00010746	237.50	240.00	No sample split.
3/11/2002	BCS00010747	240.00	242.50	No sample split.
3/11/2002	BCS00010748	242.50	245.00	No sample split.
3/11/2002	BCS00010749	245.00	247.50	No sample split.
3/11/2002	BCS00010750	247.50	250.00	50% split.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/11/2002	BCS00010751	250.00	252.50	No sample split.
3/11/2002	BCS00010752	252.50	255.00	No sample split.
3/11/2002	BCS00010753	255.00	257.50	No sample split.
3/11/2002	BCS00010754	257.50	260.00	No sample split. Inject slug of mud down hole at 260' at 1153, 3/11/02.
3/11/2002	BCS00010755	260.00	262.50	No sample split.
3/11/2002	BCS00010756	262.50	265.00	No sample split. Grading does not apply to SM.
3/11/2002	BCS00010757	265.00	267.50	No sample split.
3/11/2002	BCS00010758	267.50	270.00	No sample split.
3/11/2002	BCS00010759	270.00	272.50	No sample split. Grading does not apply to SM.
3/11/2002	BCS00010760	272.50	275.00	No sample split.
3/11/2002	BCS00010761	275.00	277.50	No sample split.
3/11/2002	BCS00010762	277.50	280.00	50% split.
3/11/2002	BCS00010763	280.00	282.50	No sample split.
3/11/2002	BCS00010764	282.50	285.00	No sample split.
3/11/2002	BCS00010765	285.00	287.50	No sample split.
3/11/2002	BCS00010766	287.50	290.00	50% split.
3/11/2002	BCS00010767	290.00	292.50	No sample split.
3/11/2002	BCS00010768	292.50	295.00	No sample split.
3/11/2002	BCS00010769	295.00	297.50	No sample split.
3/11/2002	BCS00010770	297.50	300.00	50% split.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
3/11/2002	BCS00010771	300.00	302.50	No sample split.
3/11/2002	BCS00010772	302.50	305.00	50% sample split.
3/11/2002	BCS00010773	305.00	307.50	No sample split.
3/11/2002	BCS00010774	307.50	310.00	No sample split.
3/11/2002	BCS00010775	310.00	312.50	No sample split.
3/11/2002	BCS00010776	312.50	315.00	50% sample split.
3/11/2002	BCS00010777	315.00	317.50	50% sample split.
3/11/2002	BCS00010778	317.50	320.00	No sample split. Inject slug of mud at 320' on 3/11/02.
3/12/2002	BCS00010779	320.00	322.50	No sample split.
3/12/2002	BCS00010780	322.50	325.00	No sample split.
3/12/2002	BCS00010781	325.00	327.50	50% sample split.
3/12/2002	BCS00010782	327.50	330.00	50% sample split.
3/12/2002	BCS00010783	330.00	332.50	No sample split.
3/12/2002	BCS00010784	332.50	335.00	No sample split.
3/12/2002	BCS00010785	335.00	337.50	No sample split.
3/12/2002	BCS00010786	337.50	340.00	No sample split. Grading does not apply to SM or GM.
3/12/2002	BCS00010787	340.00	342.50	50% sample split.
3/12/2002	BCS00010788	342.50	345.00	No sample split.
3/12/2002	BCS00010789	345.00	347.50	No sample split. Grading does not apply to SM or GM.
3/12/2002	BCS00010790	347.50	350.00	No sample split. Cleaning hole from 0723 - 0744. Grading does not apply to SM or GM.

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3/12/2002	BCS00010791	350.00	352.50	No sample split.
3/12/2002	BCS00010792	352.50	355.00	No sample split.
3/12/2002	BCS00010793	355.00	357.50	No sample split.
3/12/2002	BCS00010794	357.50	360.00	No sample split.
3/12/2002	BCS00010795	360.00	362.50	No sample split. Coarse sand and fine gravel.
3/12/2002	BCS00010796	362.50	365.00	No sample split.
3/12/2002	BCS00010797	365.00	367.50	No sample split.
3/12/2002	BCS00010798	367.50	370.00	No sample split.
3/12/2002	BCS00010799	370.00	372.50	50% split. Grading does not apply to SM.
3/12/2002	BCS00010800	372.50	375.00	No sample split.
3/12/2002	BCS00010801	375.00	377.50	No split. Grading does not apply to SM or GM.
3/12/2002	BCS00010802	377.50	380.00	No split. Pump slug of mud down hole to condition/stabilize hole at 380' at 0938, 3/12/02.
3/12/2002	BCS00010803	380.00	382.50	No split.
3/12/2002	BCS00010804	382.50	385.00	No split. Grading does not apply to SM or GM.
3/12/2002	BCS00010805	385.00	387.50	No split. Grading does not apply to SM or GM.
3/12/2002	BCS00010806	387.50	390.00	50% split. Grading does not apply to SM or GM.
3/12/2002	BCS00010807	390.00	392.50	50% split. Grading does not apply to SM or GM.
3/12/2002	BCS00010808	392.50	395.00	No split. Grading does not apply to SM or GM.
3/12/2002	BCS00010809	395.00	397.50	No split. Grading does not apply to SM or GM.
3/12/2002	BCS00010810	397.50	400.00	No split. Grading does not apply to SM or GM.

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3/12/2002	BCS00010811	400.00	402.50	No split.
3/12/2002	BCS00010812	402.50	405.00	No split.
3/12/2002	BCS00010813	405.00	407.50	No split.
3/12/2002	BCS00010814	407.50	410.00	No split. Grading does not apply to SM.
3/12/2002	BCS00010815	410.00	412.50	No split. Grading does not apply to SM.
3/12/2002	BCS00010816	412.50	415.00	No split. Grading does not apply to SM.
3/12/2002	BCS00010817	415.00	417.50	No split. Grading does not apply to SM.
3/12/2002	BCS00010818	417.50	420.00	No split. Inject slug of mud at 420' to condition/stabilize hole on 3/12/02 at 1245. Grading does not apply to SM.
3/12/2002	BCS00010819	420.00	422.50	No split.
3/12/2002	BCS00010820	422.50	425.00	No split.
3/12/2002	BCS00010821	425.00	427.50	No split.
3/12/2002	BCS00010822	427.50	430.00	No split. Inject water because of natural moisture and trace of clay. Grading does not apply to GM or SC.
3/12/2002	BCS00010823	430.00	432.50	No split. Coarse sand.
3/12/2002	BCS00010824	432.50	435.00	No split. Coarse sand.
6/12/2002	BCS00010825	435.00	437.50	No split. Clay plugging bit. No sample density measurements due to wet samples. Grain shape determined by identifying greatest degree of rounding. Plasticity tested on material passing #10 sieve.
6/12/2002	BCS00010826	437.50	440.00	No split. No sample density measurements due to wet samples. Grain shape determined by identifying greatest degree of rounding. Plasticity testing on material passing #10 sieve. Grading does not apply to GM or SC.
6/12/2002	BCS00010827	440.00	442.50	No split. No sample density measurements due to wet samples. Minor loss of fines occurring during logging process due to winnowing (wind is blowing). Grain shape determined by identifying greatest degree of rounding. Plasticity tested on material passing #10 sieve.
6/12/2002	BCS00010828	442.50	445.00	No split. No sample density measurements due to wet samples. Minor loss of fines occurring during logging process due to winnowing (wind is blowing). Grain shape determined by identifying greatest degree of rounding. Plasticity tested on material passing #10 sieve.
6/12/2002	BCS00010829	445.00	447.50	No split. No sample density measurements due to wet samples. Minor loss of fines occurring during logging process due to winnowing (wind is blowing). Grain shape determined by identifying greatest degree of rounding. Plasticity tested on material passing #10 sieve.
6/12/2002	BCS00010830	447.50	450.00	No split. No sample density measurements due to wet samples. Minor loss of fines occurring during logging process due to winnowing (wind is blowing). Grain shape determined by identifying greatest degree of rounding. Plasticity tested on material passing #10 sieve.

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6/12/2002	BCS00010831	450.00	455.00	No split. No sample density measurements due to wet samples. Fines adhering to gravels. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010832	455.00	460.00	No split. No sample density measurements due to wet samples. Cement estimated based on HCl reaction and presence of grain coatings on gravel. Grading does not apply to SM.
6/12/2002	BCS00010833	460.00	465.00	No split. No sample density measurements due to wet samples. Fines adhering to gravels. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010834	465.00	470.00	No split. No sample density measurements due to wet samples. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010835	470.00	475.00	No split. No sample density measurements due to wet samples. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010836	475.00	480.00	No split. No sample density measurements due to wet samples. Sample recovery questionable due to muddy suspension. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010837	480.00	485.00	Changed to wet splitter. 1/2 split. No sample density measurements due to wet samples. Sample recovery questionable due to muddy suspension. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010838	485.00	490.00	1/2 split. No sample density measurements due to wet samples. Sample recovery questionable due to muddy suspension. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010839	490.00	495.00	1/2 split. No sample density measurements due to wet samples. Sample recovery questionable due to muddy suspension. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010840	495.00	500.00	1/2 split. No sample density measurements due to wet samples. Cement estimated based on HCl reaction and presence of grain coatings on gravel.
6/12/2002	BCS00010841	500.00	505.00	No sample density measurements due to wet samples. 1/4 sample split. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/12/2002	BCS00010842	505.00	510.00	No sample density measurements due to wet samples. 1/4 sample split. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/12/2002	BCS00010843	510.00	515.00	No sample density measurements due to wet samples. 1/4 sample split. Sample recovery questionable due to muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/12/2002	BCS00010844	515.00	520.00	No sample density measurements due to wet samples. 1/4 sample split. Sample recovery questionable due to muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/12/2002	BCS00010845	520.00	525.00	No sample density measurements due to wet samples. 1/4 sample split. Sample recovery questionable due to muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/12/2002	BCS00010846	525.00	530.00	No sample density measurements due to wet samples. 1/4 sample split. Cementation estimated based on HCl reaction and presence of grain coatings on gravels. Appearance of reddish-orange sand @ 525', 550', and 555'.
6/13/2002	BCS00010847	530.00	535.00	No sample density measurements due to wet samples. 1/4 sample split. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/13/2002	BCS00010848	535.00	540.00	No sample density measurements due to wet samples. 1/4 sample split. Water level = 418.1' B.G.L. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/13/2002	BCS00010849	540.00	545.00	No sample density measurements due to wet samples. 1/4 sample split. Grading does not apply to SM. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.
6/13/2002	BCS00010850	545.00	550.00	No sample density measurements due to wet samples. 1/4 sample split. Grading does not apply to SM. Cementation estimated based on HCl reaction and presence of grain coatings on gravels.

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Borehole ID: **NC-EWDP-23P** (Phase 3)

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/13/2002	BCS00010851	550.00	555.00	1/4 sample split. No sample density measurements due to wet samples. Grading does not apply to SM or SC. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010852	555.00	560.00	1/4 sample split. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010853	560.00	565.00	1/8 sample split. Inject slug of bentonite to condition/stabilize hole. Predominantly fines in a muddy suspension. Grading does not apply to SM or SC. Cementation estimated based on HCl reaction and presence of grain coatings. 560' to 565' is clayey, sticky, and fat.
6/13/2002	BCS00010854	565.00	570.00	1/8 sample split. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010855	570.00	575.00	1/8 sample split. Predominantly fines in a muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings. Contains fragments of reworked tuff with clastic texture.
6/13/2002	BCS00010856	575.00	580.00	1/8 sample split. Predominantly fines in a muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010857	580.00	585.00	1/8 sample split. Inject slug of bentonite to condition/stablize hole. Predominantly fines in a muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings. Contains fragments of reworked tuff with clastic texture. Increased heterogeneity, varied lithology and colors.
6/13/2002	BCS00010858	585.00	590.00	1/8 sample split. Predominantly fines in a muddy suspension. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010859	590.00	595.00	1/8 sample split. Predominantly fines in a muddy suspension. Cementation esimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010860	595.00	600.00	1/8 sample split. Yield by airlift = 16.7 gpm. Predominantly fines in a muddy suspension. Grading does not apply to SM or SC. Cementation estimated based on HCl reaction and presence of grain coatings.
6/13/2002	BCS00010861	600.00	605.00	No sample density measurements due to wet samples. 1/8 sample split. Predominantly fines in muddy suspension. Inject slug of mud to condition/stabilize hole. Interval 600' to 605' is true clay. Grading does not apply to CL, SM, or SC. Interval 600' to 605' classifies as lean clay (transmitted to NWRPO lab for testing).
6/13/2002	BCS00010862	605.00	610.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC.
6/13/2002	BCS00010863	610.00	615.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC.
6/13/2002	BCS00010864	615.00	620.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC.
6/13/2002	BCS00010865	620.00	625.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC. Contains minor black glassy gravel clasts.
6/13/2002	BCS00010866	625.00	630.00	1/8 sample split. Predominantly fines in muddy suspension. Inject slug of mud to condition/stabilize hole. Grading does not apply to CL, SM, or SC.
6/13/2002	BCS00010867	630.00	635.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC. Interval 630' to 635' contains minor chert and shaley fragments.
6/14/2002	BCS00010868	635.00	640.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC.
6/14/2002	BCS00010869	640.00	645.00	1/8 sample split. Predominantly fines in muddy suspension. Inject slug of mud to condition/stabilize hole. Grading does not apply to CL, SM, or SC.
6/14/2002	BCS00010870	645.00	650.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to CL, SM, or SC.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/14/2002	BCS00010871	650.00	655.00	No sample density measurements due to wet samples. 1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010872	655.00	660.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010873	660.00	665.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010874	665.00	670.00	1/8 sample split. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/14/2002	BCS00010875	670.00	675.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM. Contains fragment of laminated siltstone, dark yellowish orange (10YR 6/6).
6/14/2002	BCS00010876	675.00	680.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010877	680.00	685.00	1/8 sample split. Predominantly fines in muddy suspension. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/14/2002	BCS00010878	685.00	690.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010879	690.00	695.00	1/8 sample split. Predominantly fines in muddy suspension. Grading does not apply to SM.
6/14/2002	BCS00010880	695.00	700.00	1/8 sample split. Predominantly fines in muddy suspension. Airlift yield = 25.3 gpm. Grading does not apply to SM.
6/14/2002	BCS00010881	700.00	705.00	No sample density measurements due to wet samples. 1/8 sample split. Inject slug of mud to condition/stabilize hole. Grading does not apply to SC or SM.
6/17/2002	BCS00010882	705.00	710.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010883	710.00	715.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010884	715.00	720.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010885	720.00	725.00	1/8 sample split. Inject slug of mud to condition/stabilize hole. Grading does not apply to SC or SM.
6/17/2002	BCS00010886	725.00	730.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010887	730.00	735.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010888	735.00	740.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010889	740.00	745.00	1/8 sample split. Inject slug of mud to condition/stabilize hole. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.
6/17/2002	BCS00010890	745.00	750.00	1/8 sample split. Predominantly fines in a muddy suspension. Grading does not apply to SC or SM.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/17/2002	BCS00010891	750.00	755.00	1/8 sample split. No sample density measurements due to wet samples. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010892	755.00	760.00	1/8 sample split. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010893	760.00	765.00	1/8 sample split. Samples may be contaminated by dust storm. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/17/2002	BCS00010894	765.00	770.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010895	770.00	775.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm.
6/17/2002	BCS00010896	775.00	780.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010897	780.00	785.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/17/2002	BCS00010898	785.00	790.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010899	790.00	795.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/17/2002	BCS00010900	795.00	800.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. 46.3 gpm by airlift. Inject slug of mud to condition/stabilize hole. Grading does not apply to SM.
6/17/2002	BCS00010901	800.00	805.00	1/8 sample split. No sample density measurements due to wet samples. Predominantly fines in muddy suspension. Inject mud slug to condition/stabilize hole. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010902	805.00	810.00	1/8 sample split. Predominantly fines in muddy suspension. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010903	810.00	815.00	1/8 sample split. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010904	815.00	820.00	1/8 sample split. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010905	820.00	825.00	1/8 sample split. Inject mud slug to condition/stabilize hole. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010906	825.00	830.00	1/8 sample split. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010907	830.00	835.00	1/8 sample split. Inject mud slug to condition/stabilize hole. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010908	835.00	840.00	1/8 sample split. Samples may be contaminated by dust storm. Grading does not apply to SM.
6/17/2002	BCS00010909	840.00	845.00	1/8 sample split. Inject mud slug to condition/stabilize hole. Samples may be contaminated by dust storm. Gravel clasts are porphyritic.
6/17/2002	BCS00010910	845.00	850.00	1/8 sample split. Inject mud slug to condition/stabilize hole. Samples may be contaminated by dust storm.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/17/2002	BCS00010911	850.00	855.00	1/8 sample split. No sample density measurements due to wet samples. Inject mud slug to condition stabilize hole. Samples may be contaminated by dust storm.
6/17/2002	BCS00010912	855.00	860.00	1/8 sample split. Inject mud slug to condition stabilize hole. Samples may be contaminated by dust storm.
6/17/2002	BCS00010913	860.00	865.00	1/8 sample split. Inject mud slug to condition stabilize hole. Samples may be contaminated by dust storm.
6/17/2002	BCS00010914	865.00	870.00	1/8 sample split. Inject mud slug to condition stabilize hole. Samples may be contaminated by dust storm.
6/17/2002	BCS00010915	870.00	875.00	1/8 sample split. Samples may be contaminated by dust storm.
6/17/2002	BCS00010916	875.00	880.00	1/8 sample split. Samples may be contaminated by dust storm.
6/17/2002	BCS00010917	880.00	885.00	1/8 sample split. Samples may be contaminated by dust storm.
6/18/2002	BCS00010918	885.00	890.00	1/8 sample split. Samples may be contaminated by dust storm.
6/18/2002	BCS00010919	890.00	895.00	1/8 sample split. Samples may be contaminated by dust storm.
6/18/2002	BCS00010920	895.00	900.00	1/8 sample split. Samples may be contaminated by dust storm.
6/18/2002	BCS00010921	900.00	905.00	1/8 sample split. No sample density measurements due to wet samples. Pump 300 gallons of mud to condition/stabilize hole.
6/18/2002	BCS00010922	905.00	910.00	1/8 sample split. Pump 300 gallons of mud to condition/stabilize hole.
6/18/2002	BCS00010923	910.00	915.00	1/8 sample split.
6/18/2002	BCS00010924	915.00	920.00	1/8 sample split. Pump 300 gallons of mud to condition/stabilize hole.
6/18/2002	BCS00010925	920.00	925.00	1/8 sample split. Slight bentonite contamination of sample. Interval 920' to 925' classifies as a sandy fat clay. Grading does not apply to CH or SC.
6/19/2002	BCS00010926	925.00	930.00	1/8 sample split. Grading does not apply to CH or SC.
6/19/2002	BCS00010927	930.00	935.00	1/8 sample split. Grading does not apply to CH or SC.
6/19/2002	BCS00010928	935.00	940.00	1/8 sample split. Pump 300 gallons of mud to condition/stabilize hole. Water level = 430.03' B.G.L. Grading does not apply to CH or SC. Bentonite contamination possible, or a very fat naturally occuring clay. Contains minor laminated siltstone fragments, grayish orange (10YR 7/4).
6/19/2002	BCS00010929	940.00	945.00	1/8 sample split. Heavy bentonite contamination of samples. Grading does not apply to CH or SC. Bentonite contamination possible, or a very fat naturally occuring clay. Bentonite contamination; samples collected for lab and archive at SMF. Color is yellowish gray (5Y 7/2).
6/19/2002	BCS00010930	945.00	950.00	1/8 sample split. Heavy bentonite contamination of samples. Pump 300 gallons of mud to condition/stabilize hole. Grading does not apply to CH or SC. Bentonite contamination possible, or a very fat naturally occuring clay. Color is pale yellowish brown (10YR 6/2).

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Borehole ID: **NC-EWDP-23P** (Phase 3)

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/19/2002	BCS00010931	950.00	955.00	1/8 sample split. No sample density measurements due to wet samples. Moderate bentonite contamination of sample. Pump 300 gallons of mud to condition/stabilize hole. Grading does not apply to SC or SM. Color is pale to moderate yellowish brown (10YR 6/3).
6/19/2002	BCS00010932	955.00	960.00	1/8 sample split. Moderate bentonite contamination of sample. Grading does not apply to SC or SM. Color is light brown to grayish orange pink.
6/19/2002	BCS00010933	960.00	965.00	1/8 sample split. Moderate bentonite contamination of sample. Drill helper missed 5' sample interval resulting in 10' sample. Grading does not apply to SC or SM.
6/19/2002	BCS00010934	965.00	970.00	1/8 sample split. Moderate bentonite contamination of sample. Grading does not apply to SC or SM. Prominent change in color to pale reddish brown (10R 5/4); Lateritic soil.
6/19/2002	BCS00010935	970.00	975.00	1/8 sample split. Slight bentonite contamination of sample. Grading does not apply to SC or SM. Color is light brown to grayish orange pink.
6/19/2002	BCS00010936	975.00	980.00	1/8 sample split. Moderate bentonite contamination of sample. Grading does not apply to SC or SM.
6/19/2002	BCS00010937	980.00	985.00	1/8 sample split. Slight bentonite contamination of sample. Grading does not apply to SC or SM.
6/19/2002	BCS00010938	985.00	990.00	1/8 sample split. Slight bentonite contamination of sample. Pump 300 gallons of mud to condition/stabilize hole.
6/19/2002	BCS00010939	990.00	995.00	1/8 sample split.
6/19/2002	BCS00010940	995.00	1000.00	1/8 sample split. Airlift yield = 40.5 gpm.
6/20/2002	BCS00010941	1000.00	1005.00	1/8 sample split. No sample density measurements due to wet samples. Color is light brown. Poorly graded - absence of medium and course grained sand; predominantly fine sand.
6/20/2002	BCS00010942	1005.00	1010.00	1/8 sample split.
6/20/2002	BCS00010943	1010.00	1015.00	1/8 sample split.
6/20/2002	BCS00010944	1015.00	1020.00	1/8 sample split. Inject slug of mud to condition/stabilize hole.
6/20/2002	BCS00010945	1020.00	1025.00	1/8 sample split.
6/20/2002	BCS00010946	1025.00	1030.00	1/8 sample split. Slight bentonite contamination. Grading does not apply to CH, SC, CL, or SM. Color is light brown to grayish orange pink.
6/20/2002	BCS00010947	1030.00	1035.00	1/8 sample split. Inject slug of mud to condition/stabilize hole. Color is light brown.
6/20/2002	BCS00010948	1035.00	1040.00	1/8 sample split. Grading does not apply to CH, SC, CL, or SM.
6/20/2002	BCS00010949	1040.00	1045.00	1/8 sample split. Grading does not apply to CH, SC, CL, or SM.
6/20/2002	BCS00010950	1045.00	1050.00	1/8 sample split. Grading does not apply to CH, SC, CL, or SM.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/20/2002	BCS00010951	1050.00	1055.00	1/8 sample split. No sample density measurements due to wet samples. Slight bentonite contamination of sample. Grading does not apply to SC, CL, or SM. Color is light brown.
6/20/2002	BCS00010952	1055.00	1060.00	1/8 sample split. Moderate bentonite contamination of sample. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010953	1060.00	1065.00	1/8 sample split. Added booster air pump. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010954	1065.00	1070.00	1/8 sample split. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010955	1070.00	1075.00	1/8 sample split. Slight bentonite contamination of sample. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010956	1075.00	1080.00	1/8 sample split. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010957	1080.00	1085.00	1/8 sample split. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010958	1085.00	1090.00	1/8 sample split. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010959	1090.00	1095.00	1/8 sample split. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010960	1095.00	1100.00	1/8 sample split. Airlift yield: 70.6 gpm. Grading does not apply to SC, CL, or SM.
6/20/2002	BCS00010961	1100.00	1105.00	1/8 sample split. No sample density measurements due to wet samples. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010962	1105.00	1110.00	1/8 sample split. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010963	1110.00	1115.00	1/8 sample split. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010964	1115.00	1120.00	1/8 sample split. Pump 300 gallons of bentonite to condition/stabilize hole. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010965	1120.00	1125.00	1/8 sample split. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010966	1125.00	1130.00	1/8 sample split. Grading does not apply to SM, CL, or SC. Color is moderate brown to light brown.
6/20/2002	BCS00010967	1130.00	1135.00	1/8 sample split. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010968	1135.00	1140.00	1/8 sample split. Water level = 426.3' on 3/19/02 a.m. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010969	1140.00	1145.00	1/8 sample split. Grading does not apply to SM, CL, or SC.
6/20/2002	BCS00010970	1145.00	1150.00	1/8 sample split. Grading does not apply to SM, CL, or SC.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
6/21/2002	BCS00010971	1150.00	1155.00	Grain coatings of gravels and strong reaction to HCl indicates cementation. Grading does not apply to SC.
6/21/2002	BCS00010972	1155.00	1160.00	Grading does not apply to SC.
6/21/2002	BCS00010973	1160.00	1165.00	Grading does not apply to SC.
6/21/2002	BCS00010974	1165.00	1170.00	Grain coatings of gravels and strong reaction to HCl indicates cementation. Grading does not apply to SC.
6/21/2002	BCS00010975	1170.00	1175.00	Grading does not apply to SC.
6/21/2002	BCS00010976	1175.00	1180.00	Grading does not apply to SC.
6/21/2002	BCS00010977	1180.00	1185.00	Grading does not apply to SC.
6/21/2002	BCS00010978	1185.00	1190.00	Grading does not apply to SC.
6/21/2002	BCS00010979	1190.00	1195.00	Grading does not apply to SC.
6/21/2002	BCS00010980	1195.00	1200.00	Sample contains grayish orange chert fragments (10YR 7/4). Grading does not apply to SC.
7/1/2002	BCS00010981	1200.00	1205.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010982	1205.00	1210.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010983	1210.00	1215.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010984	1215.00	1220.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010985	1220.00	1225.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010986	1225.00	1230.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010987	1230.00	1235.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010988	1235.00	1240.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. Water temp = 82 degrees F. No sample density measurements due to wet samples.
7/1/2002	BCS00010989	1240.00	1245.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010990	1245.00	1250.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.

Alluvium Drill Cuttings Logging Form Comments - Nye County Nuclear Waste Repository Project Office

Borehole ID: **NC-EWDP-23P** (Phase 3)

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
7/1/2002	BCS00010991	1250.00	1255.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010992	1255.00	1260.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010993	1260.00	1265.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. Water temp = 82 degrees F. No sample density measurements due to wet samples.
7/1/2002	BCS00010994	1265.00	1270.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010995	1270.00	1275.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010996	1275.00	1280.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010997	1280.00	1285.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010998	1285.00	1290.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1200 to 1340 ft as non-alluvium. Samples were washed and logged on non-alluvium forms. Closer inspection revealed that the material is alluvium, therefore samples were reclassified. Classification is problematic and questionable because fines have been washed from samples. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements due to wet samples.
7/1/2002	BCS00010999	1290.00	1295.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011000	1295.00	1300.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011001	1300.00	1305.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample. Water temp 80+ degrees Fahrenheit.
7/1/2002	BCS00011002	1305.00	1310.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011003	1310.00	1315.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011004	1315.00	1320.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011005	1320.00	1325.00	Fines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. Interval is basaltic cobbles and boulders. Rounding indicates alluvium and not flow. Dark gray crystalline matrix with blebs of red (5R 4/6) mineral oxides; contains numerous feldspar laths (approx. 25%). No sample density measurements take due to wet sample.
7/1/2002	BCS00011006	1325.00	1330.00	ines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011007	1330.00	1335.00	ines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample.
7/1/2002	BCS00011008	1335.00	1340.00	ines loss due to sample processing (washing). Field geologist made an erroneous interpretation originally and identified the drill cuttings from the interval 1290 to 1310 ft as Tuffaceous Sandstone. Consequently it was logged on non-alluvium forms. Closer inspection revealed well rounded quartz grains, therefore it was reclassified and logged as alluvium. Fines had to be estimated from washed chip tray samples so classification is problematic and questionable. Cementation indicated by presence of clasts of cemented sand grains. No sample density measurements take due to wet sample. Water temp 80+ degrees Fahrenheit.