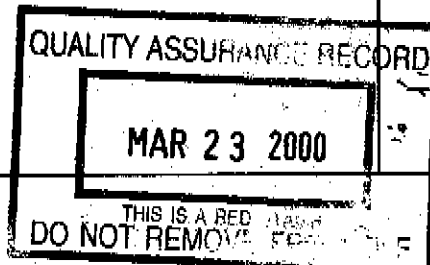


NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

NC-EWDP-15P
Borehole ID _____ Drill Depth From 0 To 60 (TD = 289.57') Page 1 of 5
Driller BRYAN MORRIS Start Date/Time 2-25-00/1611 End Date/Time 2-27-00, 1134
Drilling Equip./Method AP-1000 Sampling Equip./Method CYCLONE
9.5" CRAWD-OUT BIT & 8.5" DWP

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
	BCS0000 5776	SAND: Trace fine gravel, fine sand, poorly graded, grayish orange (10YR 7/4) Aeolian sand.			START AT 1611 weak-mod HCl reaction
	2 MIN BCS0000 5777	GRAVELLY SAND: Predom fine subang gravel, fine-med sand, some cobbles, pale yellow (10YR 6/2)			weak HCl reaction
10	4 MIN BCS0000 5778	SILTY GRAVELLY SAND: Predom fine subang gravel w/caliche rind, fine-med sand some coarse gravel, Very pale orange (10YR 8/2). Some cobbles			Strong HCl reaction
15	2 MIN BCS0000 5779	Decrease in amount of silt & increase in amount of gravel Pale yellow (10YR 6/2)			Strong HCl reaction
20	3 MIN BCS0000 5780				2-25-00, 1638 2-26-00, 0807
25	3 MIN BCS0000 5781	SAND: Trace - some fine gravel, trace silt. Lt brn (5YR 6/4 - 5/6) Aeolian. Fine sand			weak HCl reaction Mod HCl reaction
30	2 MIN BCS0000 5782				Mod HCl reaction
35	1 MIN BCS0000 5783				Weak HCl reaction
40	3 MIN BCS0000 5784				Mod HCl reaction
45	1 MIN BCS0000 5785	GRAVELLY SAND; Predom fine subang gravel well graded sand, Lt brn (5YR 6/4 - 5/6)			No HCl reaction
50	2 MIN BCS0000 5786	SILTY SAND: Trace fine ang gravel, fine sand, Lt brn (5YR 5/6)			mod HCl reaction
55	2 MIN BCS0000 5787				weak HCl react.
60	2 MIN				



Prepared By KEN DONNELSON Date 2-26-00 Checked By J.S. Walker Date 3-2-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

NC-EWDP-15P
 Borehole ID _____ Drill Depth From 60 To 125 Page 2 of 5

DEP. (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
60	BCS0000 5788	SAND: Trace-some fine angular gravel, fine sand, trace silt. Mod. yel brn (10YR 5/4)			No HCl reaction
65	2 MIN BCS0000 5789	well graded sand.			No HCl reaction
70	2 MIN BCS0000 5790	predom fine sand. Lt brn (5YR 6/4) trace coarse gravel			Weak HCl reaction
75	1 MIN BCS0000 5791				Mod HCl reaction
80	3 MIN BCS0000 5792				Mod-weak-HCl reaction
85	2 MIN BCS0000 5793	GRAVELLY SAND: fine ang gravel, well graded sand, Lt brn (5YR 6/4 - 5/6)			WEAK HCl REACTION
90	1 MIN BCS0000 5794	Increased coarse gravel			Strong HCl REACTION
95	2 MIN BCS0000 5795	fine sand			Strong HCl reaction
100	2 MIN BCS0000 5796	caliche rind on gravels Increased silt			Strong HCl reaction
105	2 MIN BCS0000 5797	GRAVELLY SAND: fine gravel, fine-med sand, some silt, Lt brn (5YR 5/6)			Weak HCl reaction
110	3 MIN BCS0000 5798	Increased coarse sand			Weak HCl reaction
115	3 MIN BCS0000 5799	Increased amount of gravel			No HCl reaction
120	4 MIN BCS0000 5800	SANDY GRAVEL: well graded sand, trace clay, fine gravel, Lt brn (5YR 6/4)			No HCl reaction
125	3 MIN				

Prepared By K. DONNELSON Date 2-26-00 Checked By J.S. Walker Date 3-2-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-15P Drill Depth From 125 To 190 Page 3 of 5

DEP. (Feet)	Top/Bottom Sample of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
130	BCS0000 5801 1 MIN	SILTY SAND: Some fine gravel, fine sand Lt brn (SYR 6/4)			No HCl reaction
125	BCS0000 5802 3 MIN	GRAVELLY SAND: Predom coarse angular gravel & cobbles, fine sand, some silt, Lt brn (SYR 6/4)			No HCl reaction
140	BCS0000 5803 4 MIN	SANDY GRAVEL: Coarse sand, coarse ang gravel, trace - some clay, low plasticity Lt brn (SYR 6/4)			strong HCl reaction
145	BCS0000 5804 2 MIN	Decrease amount of clay & coarse gravel. Increased sand			Weak HCl reaction
150	BCS0000 5805 3 MIN	GRAVELLY SAND: Fine ang gravel, well graded sand, Lt brn (SYR 6/4), trace silt			No HCl reaction
155	BCS0000 5806 2 MIN	Some cobbles & coarse gravel			Weak HCl reaction
160	BCS0000 5807 4 MIN	SANDY GRAVEL: Coarse ang sand, fine gravel (pea), tr - some clay, low plasticity Lt brn (SYR 6/4)			Mod HCl reaction
165	BCS0000 5808 3 MIN	Increased amount of coarse gravel			Weak HCl reaction
170	BCS0000 5809 3 MIN	GRAVELLY SAND: Predom fine subang gravel, coarse sand, trace clay, pale yel brn (10YR 6/2)			No HCl reaction
175	BCS0000 5810 2 MIN				Weak HCl reaction
180	BCS0000 5811 4 MIN	SANDY GRAVEL: Well graded sand, predom fine ang gravel, trace clay, pale yel brn (10YR 6/2) - Lt brn (SYR 6/4)			Mod HCl reaction
185	BCS0000 5812 4 MIN	Trace - some clay Increased coarse gravel			Weak HCl reaction
190	BCS0000 5813 3 MIN	Increased fine angular gravel			Weak HCl reaction

Prepared By K. DONNELSON Date 2-26-00 Checked By J.S. Walker Date 3-2-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-15P Drill Depth From 190 To 255 Page 4 of 5

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
195	BCS0000 5814 4 MIN	CLAYEY SAND & GRAVEL: predom fine ang gravel & coarse sand, low plasticity, mod yel brn (10YR 5/4)			No HCl REACTION
200	BCS0000 5815 4 MIN	Pea gravel size Decreased amount of clay			Weak HCl reaction
205	BCS0000 5816 7 MIN	Increased coarse gravel			No HCl reaction
210	BCS0000 5817 4 MIN	Some cobbles 209.75' w/BIT AT 227.87', 2-26-00, 1538			No HCl reaction
215	BCS0000 5818 2 MIN	Increased fine gravel			No HCl reaction
220	BCS0000 5819 4 MIN	Increased clay, medium plasticity (May be accumulated clay that came loose from cyclone)			No HCl reaction
225	BCS0000 5820 2 MIN	SANDY GRAVEL: Coarse sand, predom fine angular (pea) gravel, mod yel brn (10YR 5/4)			No HCl reaction
230	BCS0000 5821 2 MIN				No HCl reaction DRILLER REPORTS WATER YIELD BETWEEN 220-230'
235	BCS0000 5822 5 MIN	Grayish red (10R 4/2) - Grayish brn (5YR 3/2)			2-26-00, 1430 2-27-00, 0821
240	BCS0000 5823 6 MIN	Some Lt brn (5YR 5/6) sandy clay w/mod plasticity			No HCl reaction Poor recovery
245	BCS0000 5824 2 MIN	Decreased clay Some cobbles			No HCl reaction
250	BCS0000 5825 3 MIN	SANDY & GRAVELLY CLAY: Coarse angular gravel, mod plasticity. Lt brn (5YR 6/4) - (5YR 5/6). Clasts of xtal-rich, pale yel brn (10YR 6/2) - yel gray (5Y 7/2). Possibly in tuff unit or re-worked unit			No HCl reaction
255	BCS0000 5826 3 MIN				No HCl reaction

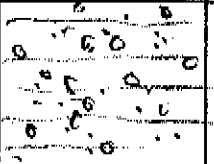


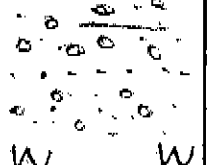
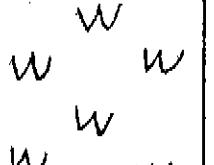

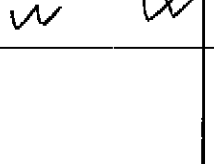
Prepared By K. DONNELSON Date 2-27-00 Checked By J.S. Walker Date 3-2-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-15P Drill Depth From 255 To 290 Page 5 of 5

DEF I (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
	BCS0000 5827	Increased clay, Lt brn (SYR 6/4) med-high plasticity			No HCl reaction
260	3 MIN BCS0000 5828	CLAYEY SAND & GRAVEL: Coarse sand, predom fine ang gravel, low-med plasticity. Lt brn (SYR 6/4 - 5/6). gr-g gravel clasts May be a tuff unit or re-worked unit.			No HCl reaction
265	3 MIN BCS0000 5829				No HCl reaction
270	3 MIN BCS0000 5830	Decreased clay			No HCl reaction
275	2 MIN BCS0000 5831	TUFF: Partially welded, hard, clayey fxs or alt, xtal-rich with bronze biotite. Very light gray (N8) - pink gray (SYR 8/1)			Weak HCl react
280	4 MIN BCS0000 5832	Lt brn (SYR 6/4) with Lt brn (SYR 5/6) inclusions. Some v. fine mafics. Hard.			No HCl reaction
285	16 MIN BCS0000 5833	MUDAY Grayish orange (10YR 7/4) - Dark yel orange (10YR 6/6). Increased mafics Hard.			No HCl reaction
290	46 MIN				2-27-00, 1134
					T.D. = 289.57'

Prepared By K. DONNELSON Date 2-27-00 Checked By J.S. Walker Date 3-2-00