

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-75C Drill Depth From 58' To 115' Page 1 of 12
T.D. = 778.5'
Driller LAYNE Start Date/Time 4/13/00 1820 End Date/Time 4/15/00 1842
Drilling Equip./Method IR 75E REVERSE CIRCULATION Sampling Equip. Method CYCLONE/SPLITTER
AIR

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
		0-58' DRILLED PREVIOUSLY WITH AUGER AND CASING SET. BEGIN DRILLING @ 58. ft. 0-58' Not Sampled see NC-EWDP-75			
60	BCS 0000 6276	58-65' silty-gravelly sand, grayish orange (10YR 7/4), 5% silt, 10% fine gravel (1/2"), 85% well sorted sand (medium and coarse). Gravel is composed of mixed volcanic lithology, multi-colored pale yellowish orange (10YR 8/6), grayish orange pink (5YR 7/2), very light gray (N8), medium light gray (N6). Gravel is subangular to subrounded, sand grains are rounded.			58-65' Poor RETURN REACTS WITH ACID
65	5 min BCS 0000 6277	65-70' silty gravelly sand as above			Rock Bit Plugging up REACTS WITH ACID
70	55 min BCS 0000 6278	70-75 silty gravelly sand, as above			REACTS WITH ACID SURVEY AT 72' 0.1°
75	BCS 0000 6279	75-125 GRAVEL, SAND, SILT & CLAY 79% GRAVEL IS LIMESTONE/DOLomite BRECCIA, PEBBLES ARE LIGHT GRAY (N7) & VERY PALE ORANGE (10YR 8/2). MUD/RETURN WATER IS YELLOWISH GRAY (5Y 7/2)			COARSE GRAVEL PLUGGED RETURN HOSE & SAMPLE SPLITTER
80	10 min BCS 0000 6280	LIGHT GRAY PEBBLES HAVE BRECCIA TEXTURE WITH 10% ANGULAR FRAGMENTS OF DARK GRAY (N3) COLOR			
85	BCS 0000 6281	85-90 As Above			
90	20 min BCS 0000 6282	90-95' 95% SAND & SILT			
95	BCS 0000 6283	95'-115' SILT & SAND STAYS SUSPENDED IN MUD. CLAY RICH INTERVAL			TRIPPED OUT TO SWITCH FROM DOWN HOLE HAMMER TO TRICONE BIT WITH CROSS-OVER SUB SURVEY AT 98' 0.5° HOLE MAKING ABOUT 1/2-1 GAL/MIN
100	BCS 0000 6284	100-105 AS ABOVE			
105	6 min BCS 0000 6285	105-110 AS ABOVE			
110	5 min BCS 0000 6286	110-115 AS ABOVE			

QUALITY ASSURANCE RECORD

MAY - 4 2000

Prepared By B. Wilcox
B. AAQUIST

Date 04-13-00
04-14-00

Checked By B. Wilcox

DO NOT REMOVE THIS FILE

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-07SC Drill Depth From 115 To 180 Page 2 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
	BCS 0000 6287	<u>115'-125' DECREASING CLAY, SAND & SILT SETTLING OUT IN BUCKETS</u>			
120	BCS 0000 6288	<u>120-125 AS ABOVE</u>			
125	BCS 0000 6289	<u>125'-163' SAND WITH MINOR GRAVEL, MED TO COARSE CARBONATE RICH W/ MINOR MEGABESSEIA CLASTS MED. LIGHT GRAY (NG) WITH MINOR DARK GRAY CLASTS (N3) NO CLAY AS ABOVE UNIT REACTS WITH ACID</u>			AT 125' WATER VOLUME INCREASED TO 5 GAL/MIN.
130	BCS 0000 6290				
135	BCS 0000 6291	<u>135-140 AS ABOVE</u>			
140	BCS 0000 6292	<u>140-145 AS ABOVE</u>			SURVEY AT 138' 0.8'
145	BCS 0000 6293	<u>145-150 AS ABOVE</u>			
150	BCS 0000 6294	<u>150-155 AS ABOVE</u>			
155	BCS 0000 6295	<u>155-160 AS ABOVE</u>			
160	BCS 0000 6296	<u>160-163 AS ABOVE</u>			
165	BCS 0000 6297	<u>163'-195' ASH FALL TUFF PALE RED (10R 6/2), 5-10% CONTAMINATION OF LST/DOL. PEBBLES FROM ABOVE TO 185' TUFF HAS ~10% FELDSPAR PHENOCRYSTS, ~5% QUARTZ & 1% BIOTITE</u>			AT 167', RETURN WATER GRAYISH ORANGE (5YR 7/2)
170	BCS 0000 6298	<u>170-175 AS ABOVE</u>			
175	BCS 0000 6299	<u>175-180 AS ABOVE</u>			

Prepared By B. WILCOXON/B. AARVIST Date 4-14-00/4-16-00 Checked By BAW Date 7/17/00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-075C Drill Depth From 180 To 245 Page 3 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
185	BCS 0000 6300	185-190 AS ABOVE	+ + + + + + + + +		
190	BCS 0000 6301	190-195 AS ABOVE	+ + + + + + + + +		
195	BCS 0000 6302		+ + + + + + + + +		
200	BCS 0000 6303	195'-210' ASH FALL TUFF - PALE RED (10R 6/2) FINE GROUND, SAND SIZE MATERIAL OF ABOVE UNIT.	+ + + + + + + + +		198' DEVIATION SURVEY 0.8'
205	BCS 0000 6304	200-205 AS ABOVE	+ + + + + + + + +		
210	BCS 0000 6305	205-210 AS ABOVE	+ + + + + + + + +		
215	BCS 0000 6306	210-215' ASH FALL TUFF AS TO 163-195'	+ + + + + + + + +		
220	BCS 0000 6307	215-250' ASH FALL TUFF, MEDIUM GRAY (N5) BECOMING MED. LIGHT GRAY (N6) AT BOTTOM OF UNIT CONTAINS 15-20% FELDSPAR PHENOCRYSTS, 1% MAFIC PHENOCRYSTS (POSSIBLY ALTERED BIOTITE)	+ + + + + + + + +		
225	BCS 0000 6308	215-235' SAND SIZE MATERIAL RICH IN PHENOCRYSTS PUMICE EVIDENT IN LARGE FRAGMENTS AT BASE OF UNIT	+ + + + + + + + +		
230	BCS 0000 6309	225-230 ASH FALL TUFF AS ABOVE. MEDIUM LIGHT GRAY UNALTERED, DRILLED COMPETENTLY, BIMODAL VOLCANIC LITHOLOGY PREDOMINANTLY GRAYISH ORANGE PINK (5YR 7/2) FRAGMENTS WITH FELSIC MINERALOGY AND DARK GRAY (N3) FRAGMENTS. ALSO, LESSER VERY PALE OR. (10YR 8/2) FRAGMENTS AND Dolomite CONTAMINATION	+ + + + + + + + +		
235	BCS 0000 6310	230-235 AS ABOVE WITH: PREDOMINANTLY SAND SIZE DRILLING INDUCED PARTICLES	+ + + + + + + + +		
240	BCS 0000 6311	235-240 AS ABOVE	+ + + + + + + + +		
245	BCS 0000 6312	240-245 AS ABOVE	+ + + + + + + + +		

Prepared By B. Wilcox Date 4/14/00 Checked By B. Wilcox Date 4/17/00
 B. AAQUIST 04-16-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-075C

Drill Depth From 245 To 310

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DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
250	BCS 0000 6313	245-250 ASH FLOW TUFF AS ABOVE WITH PREDOMINANCE (90%) OF GRAYISH ORANGE PINK FRAGMENTS. (DESCRIBED AT (225-230)) THESE FRAGMENTS ALSO CONTAIN ALTERED MAFICS AND BRONZE BIOTITE. PUMICE FLATTENING (1:10) SUGGESTS MODERATE WELDING.	+ + + + + + + + +		
255	BCS 0000 6314	250-255 SILTY CLAYEY SAND WITH GRAVEL, 50% SAND, 10% GRAVEL GRAVEL IS FINE TO MED, SUBANGULAR, COMPOSED OF MODERATE OR. PINK (SYR 8/14) ASH FLOW FRAGMENTS AND DARK GRAY (N3) DOLOMITE FRAGMENTS. CLAY (35%) IS PALE BROWN (SYR 5/2), HIGH PLASTICITY.	0 - 0 - 0 - 0 - 0 - 0 -		CLAY BALLS IN RETURN DEMONSTRATING HIGH PLASTICITY
260	BCS 0000 6315	255-260 SILTY CLAYEY SAND WITH GRAVEL AS ABOVE	0 - 0 - 0 - 0 - 0 - 0 -		258' DEVIATION 0.7°
265	BCS 0000 6316	260-265 SILTY CLAYEY SAND WITH GRAVEL AS ABOVE	0 - 0 - 0 - 0 - 0 - 0 -		
270	BCS 0000 6317	265-270 SILTY SANDY CLAY, GRAYISH ORANGE PINK (SYR 7/2), 85% CLAY, 15% FINE SAND, SAND COMPOSED OF VOLCANIC TUFF MATERIAL, PHENOCRYSTS: PREDOMINANTLY FELDSPAR, QUARTZ, AND TRACE BIOTITE, CLAY HAS LOW PLASTICITY, MINOR SILT	0 - 0 - 0 - 0 - 0 - 0 -		INCRS Clay Slower drill rate.
275	BCS 0000 6318	270-275 SANDY CLAY AS ABOVE. THIS CLAY IS PERSISTANT TO 510 FT. WITH ONLY MINOR CHANGES, AS DESCRIBED AT INTERVALS BELOW.	0 - 0 - 0 - 0 - 0 - 0 -		RETURN WATER → MOD. OF. PINK (INR 7/14)
280	BCS 0000 6319	275-280 SILTY SANDY CLAY AS ABOVE WITH INCREASED SAND CONTENT (45%), SAND IS WELL GRADED (FINE-MED - COARSE) FEW FINE GRAVEL (1-2%). MINOR SILT.	0 - 0 - 0 - 0 - 0 - 0 -		
285	BCS 0000 6389	280-285 SILTY SANDY CLAY AS ABOVE	0 - 0 - 0 - 0 - 0 - 0 -		
290	BCS 0000 6321	285-290 SILTY SANDY CLAY AS ABOVE	0 - 0 - 0 - 0 - 0 - 0 -		
295	BCS 0000 6322	290-295 SILTY SANDY CLAY AS ABOVE	0 - 0 - 0 - 0 - 0 - 0 -		
300	BCS 0000 6323	295-300 SILTY SANDY CLAY AS ABOVE. VERY UNIFORM TEXTURE, MINERALOGY, AND COLOR.	0 - 0 - 0 - 0 - 0 - 0 -		INCRS. SAND + GVL Lost RETURN
305	BCS 0000 6324	300-305 SILTY SANDY CLAY AS ABOVE WITH 5% FINE GRAVEL (1/4").	0 - 0 - 0 - 0 - 0 - 0 -		
310	BCS 0000 6325	305-310 SILTY SANDY CLAY AS ABOVE WITH 1-2% FINE GRAVEL (1/4"), COLOR BECOMES MORE ORANGE (MODERATE ORANGE (HOR 6/14)). CLAY CONTENT 85%, SAND 10%.	0 - 0 - 0 - 0 - 0 - 0 -		INCRS. Clay

Prepared By B. Wilson
B. A. & UST

Date 4/14/00
04-16-00

Checked By IRL W Date 4/17/00

REV. 12

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWD-P-075C Drill Depth From 310 To 375 Page 5 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
310	BCS 0000 6326	310-315 SILTY SANDY CLAY AS ABOVE. TRACE GRAVEL			
315	BCS 0000 6327	315-320 SILTY SANDY CLAY AS ABOVE. TRACE FINE GRAVEL (1/4")			
320	BCS 0000 6328	320-325 SILTY SANDY CLAY AS ABOVE. SLIGHT INCREASE IN SAND CONTENT TO 15-20%, MINOR (1-2%) FINE GRAVEL (1/2")			318' DEVIATION 0.8° COARSENING more gravel
325	BCS 0000 6329	325-330 SILTY SANDY CLAY AS ABOVE. SAND CONTENT DECREASING TO 5-10%, MINOR FINE GRAVEL			INCRS. CLAY
330	BCS 0000 6330	330-335 AS ABOVE WITH ABSENCE OF GRAVEL			
335	BCS 0000 6331	335-340 AS ABOVE WITH 1-2% FINE TO COARSE GRAVEL RARE 1" GRAVEL			INCRS SAND/GVL
340	BCS 0000 6332	340-345 AS ABOVE, UNIFORM TEXTURE, MINERALOGY, AND COLOR			
345	BCS 0000 6333	345-350 AS ABOVE			
350	BCS 0000 6334	350-355 AS ABOVE, UNIFORM SINCE 335'			
355	BCS 0000 6335	355-360 CLAYEY SANDY GRAVEL, MODERATE ORANGE PINK (10R 6/4), 50% FINE TO COARSE GRAVEL (UP TO 1"), 35% SAND, 15% CLAY. GRAVELS ARE COMPOSED OF FUMICE RICH TUFF FRAGMENTS, SUBANGULAR TO SUBROUNDED.			
360	BCS 0000 6336	360-365 CLAYEY SANDY GRAVEL AS ABOVE. GRAVEL AS ABOVE, UP TO 1" diameter along long axis, SUBANGU- LAR TO SUBROUNDED, MODERATE YELLOW (5Y 7/4) MAKES 1ST APPEARANCE.			
365	BCS 0000 6337	365-370 CLAYEY SANDY GRAVEL AS ABOVE.			
370	BCS 0000 6338	370-375 CLAYEY SANDY GRAVEL AS ABOVE			

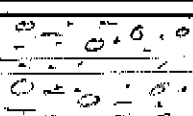
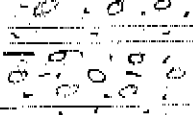

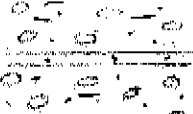

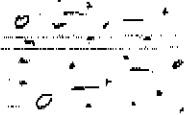




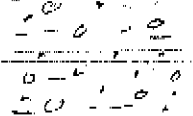
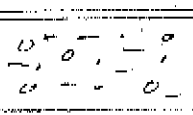
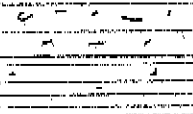
Prepared By B. Wilcox Date 4/14/00 Checked By B. Wilcox Date 4/17/00
B. ANQUIST 04-16-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-07SC Drill Depth From 375 To 440 Page 6 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
375	BCS 0000 6390	375-380 CLAYEY SANDY GRAVEL AS ABOVE. GRAVEL COMPRISES 50% OF MATERIAL, 35% SAND, 15% CLAY			378° DEVIATION 0.8°
380	BCS 0000 6340	380-385 AS ABOVE			
385	BCS 0000 6341	385-390 CLAYEY SANDY GRAVEL AS ABOVE WITH POSSIBLE REDUCTION OF GRAVEL CONTENT (NO GRAVEL IN CHIPTRAY)			
390	BCS 0000 6342	390-395 AS ABOVE WITH GRAVEL REDUCED TO 5%. SAND COMPRISES 85% OF MATERIAL, 10% CLAY, COLOR IS MODERATE ORANGE (10R 6/4)			
395	BCS 0000 6343	395-400 AS ABOVE, MINOR GRAVEL, FINING DOWNWARD			
400	BCS 0000 6344	400-405 CLAYEY SAND WITH MINOR GRAVEL, MODERATE ORANGE, (10R 6/4), 5% GRAVEL, 10% CLAY, 85% SAND			
405	BCS 0000 6345	405-410 AS ABOVE			
410	BCS 0000 6346	410-415 GRAVELLY SAND WITH CLAY, 75% SAND, 20% FINE GRAVEL, 5% CLAY			
415	BCS 0000 6347	415-420 AS ABOVE WITH SAND CONTENT INCREASING AND COARSENING TO 1/4"			
420	BCS 0000 6348	420-425 95% CLAY, MODERATE ORANGE (10R 6/4)			
425	BCS 0000 6349	425-430 MOSTLY SAND, MINOR CLAY & GRAVEL, MODERATE ORANGE (10R 6/4)			425' INCREASED WATER RETURN
430	BCS 0000 6350	430-435 AS ABOVE			
435	BCS 0000 6351	435-440 AS ABOVE			
440					

Prepared By B. Wilcox Date 4/14/00 Checked By B. Wilcox Date 4/17/00
 B. AAQUIST 04-16-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG
 CONTINUATION

Borehole ID NC-EWDP-07SC Drill Depth From 440 To 505 Page 7 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
	BCS 0000 6352	AS ABOVE			
445		445-450 MOSTLY SAND, MINOR CLAY AND GRAVEL AS ABOVE			
	BCS 0000 6353				
450		450-455 AS ABOVE			
	BCS 0000 6354				
455		455-460 AS ABOVE			
	BCS 0000 6355				458' DEVIATION 1.0°
460		460-465 INTERBEDDED CLAY & SAND MODERATE ORANGE (10R 6/4)			WATER RETURN FLUCTUATES LOW IN CLAY INTERVALS
	BCS 0000 6356				
465		465-480 SAND WITH 2% GRAVEL MODERATE ORANGE (10R 6/4)			
	BCS 0000 6357				
470		470-475 SAND WITH 2% GRAVEL AS ABOVE			470' ABOUT 20 GAL/MIN
	BCS 0000 6358				
475		475-480 AS ABOVE			
	BCS 0000 6359				
480		480-510 CLAY PALE RED (10R 6/2) MINIMAL SAND & SILT, >95% PASSED THROUGH STRAINER			<10 GAL/MIN RETURN INJECTING WATER
	BCS 0000 6360				480'-510' MINIMAL
485		485-490 AS ABOVE WITH INCREASED SUSPENSION OF FINES IN SAMPLE.			SAMPLE RECOVERY ALMOST NO COARSE FRACTION, SILT & SAND STAYED SUSPENDED IN MUD AFTER 15 MINUTES
	BCS 0000 6361				
490		490-495 AS ABOVE			< 5 GAL/MIN RETURN INJECTING WATER
	BCS 0000 6362				
495		495-500 AS ABOVE WITH VERY LITTLE SAMPLE RETAINED FINES STAY SUSPENDED IN RETURN WATER			
	BCS 0000 6363				
500		500-505 FINE SANDY SILTY CLAY, COLOR CONSISTENT WITH ABOVE, PALE RED. SAMPLE DISPLAYS GOOD WATER RETENTION			
	BCS 0000 6364				
505					

Prepared By B. Anquist Date 04-16-00 Checked By BW Date 4/17/00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-073C Drill Depth From 505 To 570 Page 8 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
510	BCS 0000 6365	AS ABOVE			
515	BCS 0000 6366	510'-530' TUFF OR TUFFACEOUS SAND, MOD. RED (5R 5/6) UPPER 1/2 IS MODERATE SAND, LOWER 1/2 IS COARSE SAND, 5% COARSE SAND SIZE QUARTZ CRYSTALS	+ + + + + + + + +		
520	BCS 0000 6367	515-520 AS ABOVE, COARSENING DOWNWARD	+ + + + + + + + +		
525	BCS 0000 6368	520-525 WELL SORTED TUFFACEOUS SAND, MOD. MODERATE ORANGE BROWN (10R 5/6) COARSE SAND SIZE PUMICE FRAGMENTS MIXED WITH 40% MEDIUM LIGHT GRAY (N6) TO MEDIUM DARK GRAY (N4) LITHICS, PHENOCRYST CONTENT IS PRIMARILY QUARTZ (95%) AND TRACE MAFICS	+ + + + + + + + +		522' RETURN >10 GAL/MIN
530	BCS 0000 6369	525-530 AS ABOVE WITH TRACE LITHIC GRAVEL (1/2") GRAVELS ARE DUSKY BROWN (5YR 2/2), SURROUNDED TO SUBANGULAR	+ + + + + + + + +		
535	BCS 0000 6370	530-535 INTERBEDDED GRAVEL & MUD 530-535 20% GRAVEL, 20% SAND, SILT STAYED SUSPENDED, POLYMICTIC, BRECCIATED POLYHITES MIXED TUFF PEBBLES	o o o o o o o o o		530-535' CHIP TRAY NOT REPRESENTATIVE OF SAMPLE COMPOSITION, SAMPLES WASHED
540	BCS 0000 6371	535-545 MOSTLY CLAY, 10% SILT, GRAVEL & SAND	o o o o o o o o o		538' DEVIATION 1.0'
545	BCS 0000 6372	540-545 AS ABOVE	o o o o o o o o o		535-545' SAMPLE BUCKETS POWDERED THROUGH STRAINER TO KETCH COARSE FRACTION
550	BCS 0000 6373	545-550 SAND & GRAVEL WITH CLAY 10% MODERATE PINK PEBBLES (5R 7/4) OF f.g. TUFF	o o o o o o o o o		
555	BCS 0000 6374	550-566 GRAVEL & SAND, NO CLAY	o o o o o o o o o		550' RETURN 20 GAL/MIN
560	BCS 0000 6375	555-566 25-35% OF PEBBLE ARE DARK GRAY (N3), VERY ANGULAR, CHERTY LIKE TUFFACEOUS MATERIAL	o o o o o o o o o		
565	BCS 0000 6376	560-565 AS ABOVE	o o o o o o o o o		
570	BCS 0000 6377	566-595 ASH FALL TUFF MODERATE BROWN (5YR 4/4) YELLOWISH BROWN (10YR 7/8) WHEN DRY FELDSPAR & QTZ PHENOCRYSTS 10% & 5% MATRIX HAS VERY FINE OPEN HONEY COMBED TEXTURE 2% GRAYISH BROWN (5YR 3/2) v.f.g. CHERTY LIKE FRAGMENTS	+ + + + + + + + +		565-566' ROUGH DALLINE

Prepared By B. AQUIST Date 04-16-00 Checked By B. AQUIST Date 4/17/00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-FWDP-07SC Drill Depth From 570 To 635 Page 9 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
	BCS 0000 6378	AS ABOVE	+ + + + + +		
575		575-580 AS ABOVE	+ + + + + +		
	BCS 0000 6379		+ + + + + +		
580		580-585 AS ABOVE	+ + + + + +		
	BCS 0000 6380		+ + + + + +		
585		585-590 AS ABOVE, BUT 60% OF MATRIX IS MASSIVE WITH 40% PUMICE LIKE MATERIAL AS ABOVE	+ + + + + +		
	BCS 0000 6381		+ + + + + +		
590		590-595 AS ABOVE, BUT WITH 2% CLAY LUMPS	+ + + + + +		DRILLER REPORTED RODS WERE GRABBING BECAUSE OF CLAY
	BCS 0000 6382		+ + + + + +		
595		595-627' ASH FALL / SAND SIZE LIGHT BROWN (SYR 6/4) TO BROWN (SYR 5/4), CONSISTS OF QTZ & FELDSPAR CRYSTALS, @ SAND SIZE GRAINS OF TUFACEOUS MATERIAL SIMILAR TO ABOVE MATERIAL HAS 2% DARK GRAY (N3) GRAINS	+ + + + + + + + +		TRAY SAMPLE NOT WASHED
600		600-605 AS ABOVE WITH ~50% CLAY ALTERATION ORIGINAL TEXTURE PRESENT IN CLAY	+ + + + + + + + +		TRAY SAMPLE NOT WASHED
	BCS 0000 6384		+ + + + + +		
605		605-610 AS ABOVE - CLAY ALTERATION DECREASING	+ + + + + +		CHIP TRAY SAMPLE WASHED NOT REPRESENTATIVE OF TRUE SAMPLE INTERVAL
	BCS 0000 6385		+ + + + + +		
610		610-615 AS TO 595-600	+ + + + + + + + +		TRAY SAMPLE NOT WASHED
	BCS 0000 6386		+ + + + + +		
615		615-620 AS ABOVE	+ + + + + + + + +		TRAY SAMPLE NOT WASHED
	BCS 0000 6387		+ + + + + +		DEVIATION 1.0° AT 618'
620		620-627 AS ABOVE	+ + + + + + + + +		
	BCS 0000 6388		+ + + + + +		
625		627-778.5 ASH FALL TUFF, PALE YELLOWISH BROWN (10YR 6/2) 10% FELDSPAR PHENOCRYSTS, 1-3% MAFIC PHENOCRYSTS COLOR CHANGES WHEN SAMPLE DRIES	+ + + + + + + + +		TRAY SAMPLES WASHED BELOW 625' AT 627' RETURN WATER BECAME GRAY ORANGE (SYR 8/2)
	BCS 0000 6391		+ + + + + +		
630		AS ABOVE BUT VERY PALE ORANGE (10YR 8/2)	+ + + + + + + + +		
	BCS 0000 6392		+ + + + + +		
635			+ + +		

Prepared By B. AQUIST Date 04-16-00 Checked By BW Date 7/17/00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-07SC Drill Depth From 700 To 765 Page 11 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
700	BCS 0000 6406	700-705 ASHFLOW TUFF AS ABOVE	+ + + + + +		
705	BCS 0000 6407	AS ABOVE LIGHT BROWNISH GRAY (SYR 6/1) VERY LIGHT GRAY (NB) WHEN IT DRIES TRACE MODERATE ORANGE FRAGMENTS	+ + + + + + + + +		
710	BCS 0000 6408	AS ABOVE	+ + + + + +		
715	BCS 0000 6409	AS ABOVE	+ + + + + +		
720	BCS 0000 6410	AS ABOVE WITH 5% MODERATE ORANGE FRAGMENTS	+ + + + + +		718' DEVIATION 1.0"
725	BCS 0000 6411	AS ABOVE BROWNISH GRAY (SYR 5/1) 2% DARK GRAY (N3) FRAGMENTS	+ + + + + +		
730	BCS 0000 6412	AS ABOVE, WITH 2% GRAYISH YELLOW (SYR 8/6) FRAGMENTS	+ + + + + +		
735	BCS 0000 6413	AS ABOVE	+ + + + + +		
740	BCS 0000 6414	AS ABOVE	+ + + + + +		
745	BCS 0000 6415	AS TO 700-705	+ + + + + +		
750	BCS 0000 6416	AS ABOVE, TRACE MODERATE ORANGE FRAGMENTS	+ + + + + +		
755	BCS 0000 6417	AS ABOVE	+ + + + + +		
760	BCS 0000 6418	AS TO 700-705	+ + + + + +		
765			+ + +		

Prepared By B. AUGUIST Date 04-17-00 Checked By BWJ Date 9/17/02

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

CONTINUATION

Borehole ID NC-EWDP-07SC Drill Depth From 765 To 778.5 Page 12 of 12

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	LITHOLOGIC UNIT	Notes
772	BCS 0000 6419	AS ABOVE, TRACE MODERATE ORANGE FRAGMENTS	+ + + + + + + + +		
775	BCS 0000 6420	AS TO 700-705	+ + + + + + + + +		
778.5	BCS 0000 6421	AS ABOVE, GRAYISH BROWN (5YR 4/2)	+ + + + + + + + +		
	T.D.	T.D. = 778.5 4/15/00 1842			

Prepared By B. AAQUIST Date 04-17-00 Checked By BMW Date 4/17/00