

CUTTINGS SAMPLE LOG

Drilling Equip./Method INTEGRAL-RAND TH75E Sampling Equip./Method CYCLONE / SPLITTER
SN 6249 REVERSE CIRCULATION

Prepared By ARTHUR J. MENDENHALL Date 1-22-99 Checked By JAMIE WALKER Date 5-17-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID ML-EWDP-3D Drill Depth From 60 To 120 Page 2 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
65	BCS 0000 1213	VALLEY FILL, AS ABOVE	NO SAMPLE		NO CUTTINGS, NO RETURN
70	BCS 0000 1214			0 0 0	
75	BCS 0000 1215			0 0 0	
80	BCS 0000 1216			0 0 0	
85	BCS 0000 1217			0 0 0	
90	BCS 0000 1218			0 0 0	
95	BCS 0000 1219			0 0 0	ABUNDANT FINE CUTTINGS
100	BCS 0000 1220			0 0 0	
105	BCS 0000 1221			0 0 0	
110	BCS 0000 1222			0 0 0	ABUNDANT FINE CUTTINGS
115	BCS 0000 1223			0 0 0	
120	BCS 0000 1224			0 0 0	





NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID ENC-EMDP-3D Drill Depth From 120 To 180 Page 3 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH 75E / REVERSE CIRC. Sampling Equip./Method CYCLONE / SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes	
125	BCS 0000 1225	VALLEY FILL, AS ABOVE			CUTTINGS WASHED THROUGH SEIVE	
130	BCS 0000 1226		NO			
135	BCS 0000 1227		SAMPLE			
140	BCS 0000 1228					
145	BCS 0000 1229				CUTTINGS WASHED THROUGH SEIVE	
150	BCS 0000 1230					
155	BCS 0000 1231		NO			
160	BCS 0000 1232		SAMPLE			
165	BCS 0000 1233				170-180 5% CLAST, VOLCANIC, VERY PALE ORANGE 104R 8/2	
170	BCS 0000 1234					
175	BCS 0000 1235	VALLEY FILL, TRANSITIONAL BETWEEN ALLUVIAL FAN AND SAND				
180	BCS 0000 1236					

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NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-FWDP-3D Drill Depth From 180 To 240 Page 4 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R-THTSE/REVERSE CIRC. Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes	
185	BCS 0000 1237	VALLEY FILL, AS ABOVE				
190	BCS 0000 1238	VALLEY FILL, SAND, POORLY SORTED, PALE YELLOWISH BROWN 10YR 6/2				
195	BCS 0000 1239					
200	BCS 0000 1240	VALLEY FILL, ALLUVIAL FAN, COMMONLY CALCAREOUS COVERED VOLCANIC CLASTS, VERY PALE ORANGE 10YR 8/2 (DAY)			200'-220' ONLY MINIMAL CUTTINGS IN RETURN	
205	BCS 0000 1241	VALLEY FILL, ALLUVIAL FAN AND SAND, VOLCANIC CLASTS GRAYISH RED 10R 4/2, VERY DUSKY RED 10R 2/2, OR LIGHT BROWN 5YR 6/4, SAND POORLY SORTED, PALE YELLOWISH BROWN 10YR 6/2	NO SAMPLE		CUTTINGS WASHED THROUGH SEIVE	
210	BCS 0000 1242					
215	BCS 0000 1243				CUTTINGS WASHED THROUGH SEIVE	
220	BCS 0000 1244					
225	BCS 0000 1245	VALLEY FILL, SAND, POORLY SORTED, PALE YELLOWISH BROWN 10YR 6/2	NO SAMPLE			
230	BCS 0000 1246					
235	BCS 0000 1247					
240	BCS 0000 1248				FIRST INDICATION OF GROUNDWATER	

FIRST INDICATION OF GROUNDWATER

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 240 To 300 Page 5 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH 75E/REVERSE CIRG Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
245	BCS 0000 1249	VALLEY FILL, AS ABOVE, RARE VOLCANIC CLASTS			
250	BCS 0000 1250				
255	BCS 0000 1251				
260	BCS 0000 1252	SANDSTONE, LACUSTRINE/FLUVIAL, POORLY SORTED, PALE RED 10R 6/2, 10-20% MAFICS, TRACE FeOx			WATER LEVEL 249'-255' 1-22-99 1042 HRS TEMP 48°C GEOPHYSICAL PROBE POSSIBLE WEATHERING SURFACE 10% DARK REDDISH BROWN 10R 3/4
265	BCS 0000 1253				
270	BCS 0000 1254				
275	BCS 0000 1255				
280	BCS 0000 1256	SANDSTONE, LACUSTRINE/FLUVIAL, POORLY SORTED, GRAYISH ORANGE 10YR 7/4, 5-10% ABRADED MAFICS, 1% VOLCANIC CLASTS			10% VOLCANIC CLASTS
285	BCS 0000 1257				
290	BCS 0000 1258				
295	BCS 0000 1259	SILTSTONE, LACUSTRINE, MEDIUM DARK GRAY N4, SOMEWHAT CALCAREOUS			
300	BCS 0000 1260				

Prepared By ARTHUR J. MENDENHALL Date 1-22-99 Checked By JAMIE WALKER Date 5-17-00
1-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 300 To 360 Page 6 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method IRTHSE/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
305	BCS 0000 1261	SILTSTONE, AS ABOVE			RARE VOLCANIC CLASTS
310	BCS 0000 1262				CLAYEY
315	BCS 0000 1263				CLAYEY
320	BCS 0000 1264				
325	BCS 0000 1265				
330	BCS 0000 1266				TUFF, ASH FALL, YELLOWISH GRAY 56Y 8/1
335	BCS 0000 1267				CLAYEY
340	BCS 0000 1268				CLAYEY
345	BCS 0000 1269				
350	BCS 0000 1270	TUFF, ASH, REWORKED, GRAYISH ORANGE PINK 5YR 7/2 TO GRAYISH ORANGE 10YR 7/4, UP TO 5% QUARTZ/SANIDINE PHENOCYSTS, 1% MAFICS, UP TO 20% VOLCANIC CLASTS. COLOR BECOMING VERY PALE ORANGE 10YR 8/2			
355	BCS 0000 1271				CLAYEY
360	BCS 0000 1272				

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-ENWAP-3D Drill Depth From 360 To 420 Page 7 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method LATH 75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
365	BCS 0000 1273	TUFF, ASH, REWORKED, AS ABOVE	+		
370	BCS 0000 1274		+		
375	BCS 0000 1275	0-5% VOLCANIC CLASTS	+		
380	BCS 0000 1276		+		
385	BCS 0000 1277		+		
390	BCS 0000 1278		+		
395	BCS 0000 1279	YELLOWISH GRAY 5Y 7/2	+		
400	BCS 0000 1280	YELLOWISH GRAY 5Y 7/2 AND VERY PALE ORANGE 10YR 8/2	+		7" CASING TO 397'
405	BCS 0000 1281	TUFF, ASH FLOW, MEDIUM DARK GRAY N4, 5% QUARTZ/SANIDINE PHENOCRYSTS, 1% MARICS, UP TO 10% LIGHT GRAY N7 PUMICE.	+		PUMICE SHOWS NO FLATTERING
410	BCS 0000 1282		+		
415	BCS 0000 1283	TUFF, ASH FLOW, GRAYISH ORANGE 10YR 7/4, 5% ZEPHYRUS AND MARICS 1% QUARTZ/SANIDINE	+		
420	BCS 0000 1284		+		

Prepared By ARTHUR J. MENDENHALL Date 1-23-99 Checked By JAMIE WALKER Date 5-17-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 420 To 480 Page 8 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
425	BCS 0000 1285	TUFF, ASH, REWORKED, VERY PALE ORANGE 10YR 8/2, 5-10% ABRASSED BIOTITE AND MAFICS, 1-5% QUARTZ/SANIDINE, 1-20% VOLCANIC CLASTS			
430	BCS 0000 1286				
435	BCS 0000 1287				
440	BCS 0000 1288				
445	BCS 0000 1289				
450	BCS 0000 1290				
455	BCS 0000 1291				
460	BCS 0000 1292				
465	BCS 0000 1293				
470	BCS 0000 1294				
475	BCS 0000 1295				
480	BCS 0000 1296				
485	BCS 0000 1297	BECOMMING YELLOWISH GRAY 5Y 7/2			
490	BCS 0000 1298				
495	BCS 0000 1299				
500	BCS 0000 1300				
505	BCS 0000 1301				
510	BCS 0000 1302				
515	BCS 0000 1303	TUFF, ASH FLOW, BLACK N1; 20-30% PUMICE, VERY PALE ORANGE 10YR 8/2, 0-50% QUARTZ/SANIDINE PHENOCYSTS, 0-10% MAFICS			PUMICE SHOWS NO FLATTENING
520	BCS 0000 1304				
525	BCS 0000 1305				
530	BCS 0000 1306				
535	BCS 0000 1307				
540	BCS 0000 1308				
545	BCS 0000 1309				
550	BCS 0000 1310				
555	BCS 0000 1311				
560	BCS 0000 1312				

Prepared By ARTHUR J. MENDENHALL Date 1-23-99 Checked By JAMIE WALKER Date 5-17-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 480 To 540 Page 9 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH 75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
485	BCS 0000 1297	TUFF, ASH FLOW, AS ABOVE	+		
490	BCS 0000 1298		+		
495	BCS 0000 1299		+		
500	BCS 0000 1300		+		1% VOLCANIC LITHICS
505	BCS 0000 1301		+		POSSIBLE WEATHERING SURFACE PUMICE DARK YELLOWISH ORANGE 10YR 6/6
510	BCS 0000 1302	PUMICE BECOMMING MODERATE GREENISH YELLOW 10Y 7/4	+		
515	BCS 0000 1303		+		
520	BCS 0000 1304	PUMICE BECOMMING PALE GREENISH YELLOW 10Y 8/2	+		
525	BCS 0000 1305		+		
530	BCS 0000 1306		+		
535	BCS 0000 1307	SILTSTONE, LACUSTINE, BROWNISH GRAY 5YR 4/1, CALCAREOUS	~		
540	BCS 0000 1308		~		

Prepared By ARTHUR J. MENDENHALL Date 1-23-99 Checked By JAMIE WALKER Date 5.17-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 540 To 600 Page 10 of 42
 Driller _____ Start Date/Time _____ End Date/Time _____
 Drilling Equip./Method T-RITE, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
545	BCS 0000 1309	SILTSTONE, AS ABOVE, MED. DARK GRAY NY, CALCAREOUS LOCALLY CLAY RICH			
550	BCS 0000 1310				
555	BCS 0000 1311				
560	BCS 0000 1312				
565	BCS 0000 1313				
570	BCS 0000 1314				
575	BCS 0000 1315				
580	BCS 0000 1316				
585	BCS 0000 1317				
590	BCS 0000 1318				
595	BCS 0000 1319	575-585 MINOR FRAGMENTS OF WHITE CRYSTAL TUFF			
600	BCS 0000 1320				

Prepared By BENT BAQUIST Date 1-24-99 Checked By ARTHUR J. MENDENHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 600 To 660 Page 11 of 42
 Driller _____ Start Date/Time _____ End Date/Time _____
 Drilling Equip./Method T-RTH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
605	BCS 0000 1321	SILTSTONE AS ABOVE, from 533' on	<div></div>		
610	BCS 0000 1322				
615	BCS 0000 1323				
620	BCS 0000 1324				
625	BCS 0000 1325				
630	BCS 0000 1326				
635	BCS 0000 1327				
640	BCS 0000 1328				
645	BCS 0000 1329				
650	BCS 0000 1330				
655	BCS 0000 1331				
660	BCS 0000 1332				

Prepared By BENT ARQUIST Date 1-24-99 Checked By ARTHUR J. MENDEMHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 660 To 720 Page 12 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH 75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
665	BCS 0000 1333	SILTSTONE AS ABOVE, MINOR CRYSTAL TUFF FRAGMENTS - MAY HAVE FALLEN FROM HIGHER UP IN HOLE			
670	BCS 0000 1334				
675	BCS 0000 1335				
680	BCS 0000 1336				
685	BCS 0000 1337				
690	BCS 0000 1338				
695	BCS 0000 1339				
700	BCS 0000 1340	705-710 50% GRAY CLAY WITH SILTSTONE			
705	BCS 0000 1341				
710	BCS 0000 1342				
715	BCS 0000 1343				
720	BCS 0000 1344				

Prepared By BENT AQUIST Date 1-24-99
 Arthur J. Mendenhall
 Checked By Mendenhall Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 720' To 780' Page 13 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RTH 75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
725	BCS 0000 1345	SILTSTONE, AS ABOVE WITH MUCH CLAY, SMALL SAMPLE IN BUCKETS, CLAY RICH TO 765'			SILTSTONES STILL CALCAREOUS
730	BCS 0000 1346	TRACE VOLCANIC CLASTS			
735	BCS 0000 1347				
740	BCS 0000 1348				
745	BCS 0000 1349	CLAYEY			
750	BCS 0000 1350	CLAYEY			
755	BCS 0000 1351	TRACE VOLCANIC CLASTS			
760	BCS 0000 1352	TRACE VOLCANIC CLASTS			
765	BCS 0000 1353				
770	BCS 0000 1354	765'-775' MORE COARSE MATERIAL IN BUCKET SAMPLES, LESS CLAY			
775	BCS 0000 1355				
780	BCS 0000 1356	775 TO 805 CLAY RICH SILTSTONE			

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 780' To 840' Page 14 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-R 75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
785	BCS 0000 1357	SILTSTONE AS ABOVE, from 533' on.			SILTSTONE STILL CALCAREOUS
790	BCS 0000 1358				
795	BCS 0000 1359				
800	BCS 0000 1360				
805	BCS 0000 1361	CLAYEY			
810	BCS 0000 1362	DUSKY BROWN SYR 2/2, WATER RETURN TURNED GREENISH GRAY THEN BROWN, MORE COARSE RETURN IN BUCKETS			
815	BCS 0000 1363	MED. DARK GRAY N4			
820	BCS 0000 1364				
825	BCS 0000 1365				
830	BCS 0000 1366	DUSKY BROWN SYR 2/2			
835	BCS 0000 1367	MED. DARK GRAY N4			
840	BCS 0000 1368				

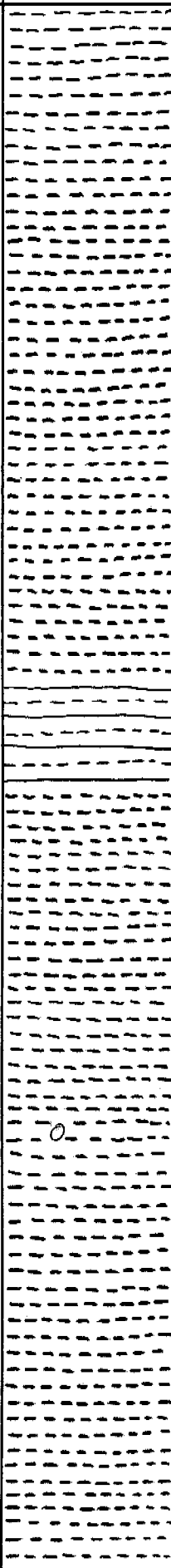
NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 840 To 900 Page 15 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
845	BCS 0000 1369	SILTSTONE, LACUSTRINE, GRAYISH BLACK N2, NONCALCAREOUS			
850	BCS 0000 1370	SILTSTONE, LACUSTRINE, GRAYISH OLIVE SY 4/2, CALCAREOUS			
855	BCS 0000 1371	SILTSTONE, LACUSTRINE, GRAYISH BLACK N2, NONCALCAREOUS			
860	BCS 0000 1372	SILTSTONE, LACUSTRINE, GRAYISH OLIVE SY 4/2, CALCAREOUS			
865	BCS 0000 1373	CLAY RICH			
870	BCS 0000 1374				
875	BCS 0000 1375	TRACE VOLCANIC CLASTS			
880	BCS 0000 1376				
885	BCS 0000 1377				
890	BCS 0000 1378				
895	BCS 0000 1379				
900	BCS 0000 1380				

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID MC-EWDP-3D Drill Depth From 900 To 960 Page 16 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH 75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
905	BCS 0000 1381	SILTSTONE, AS ABOVE, from 633' on.			
910	BCS 0000 1382	MINOR CLAY			
915	BCS 0000 1383				
920	BCS 0000 1384				
925	BCS 0000 1385	SILTSTONES BECOMMING NONCALCAREOUS			
930	BCS 0000 1386				
935	BCS 0000 1387				
940	BCS 0000 1388				
945	BCS 0000 1389	COMMON CLAY			
950	BCS 0000 1390	SILTSTONE, LACUSTRAVE, LIGHT OLIVE GRAY 5Y 5/2 OR GRAYISH BLACK N2, NONCALCAREOUS			
955	BCS 0000 1391	COMMON CLAY			
960	BCS 0000 1392	MINOR CLAY			

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID MC-EWDP-3D Drill Depth From 960 To 1020 Page 17 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
965	BCS 0000 1393	SILTSTONE, AS ABOVE, from 533' on SOME CLAY			
970	BCS 0000 1394	CLAY			
975	BCS 0000 1395				
980	BCS 0000 1396				
985	BCS 0000 1397	SILTSTONE, LACUSTRINE, GREENISH GRAY 5GY 6/1 OR DARK GRAY N3 10% TUFF, ASH FALL, VERY LIGHT GRAY N8, TRACE MAFICS			
990	BCS 0000 1398	SILTSTONE, LACUSTRINE, LIGHT OLIVE GRAY 5Y 5/2 OR GRAYISH BLACK N2			
995	BCS 0000 1399				
1000	BCS 0000 1400				
1005	BCS 0000 1401	SILTSTONE, LACUSTRINE, OLIVE GRAY 5Y 3/2			
1010	BCS 0000 1402				
1015	BCS 0000 1403	40% TUFF, ASH FALL, LIGHT BLuish GRAY 5B 7/1, 0-20% MAFICS, ALSO QUARTZ/SANIDINE PHENOCRYSTS	++++++ ++++++		
1020	BCS 0000 1404				

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1020 To 1080 Page 18 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-ATH 75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1025	BCS 0000 1405	SILTSTONE, AS ABOVE, from 533' on.			
1030	BCS 0000 1406				
1035	BCS 0000 1407	AT 1035' DRILLER REPORTED HE HIT MORE WATER AND THE HAMMER BIT IS DROWNING OUT.			
1040	BCS 0000 1408	AT 1040' TRIPPING OUT TO SWITCH TO TRICONE BIT			
1045	BCS 0000 1409				
1050	BCS 0000 1410				
1055	BCS 0000 1411	CLAY			
1060	BCS 0000 1412				
1065	BCS 0000 1413				
1070	BCS 0000 1414				
1075	BCS 0000 1415				
1080	BCS 0000 1416	20% VOLCANIC CLASTS, PALE REDDISH BROWN IOR 5/4			

Prepared By ARTHUR J. MENDENHALL Date 1-25-99 Checked By JAMIE WALKER Date 5.17.00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NYC-EWDP-3D Drill Depth From 1080 To 1140 Page 19 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RITZSE, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1085	BCS 0000 1417	SILTSTONE, AS ABOVE, from 533' on 20% TUFF, ASH FALL, LIGHT GRAY N7, TRACE PYRITE	+++++		
1090	BCS 0000 1418	SILTSTONE BECOMMING GRAYISH BLACK 2N, NONCALCAREOUS	-----		
1095	BCS 0000 1419		-----		
1100	BCS 0000 1420		-----		
1105	BCS 0000 1421		-----		
1110	BCS 0000 1422	SILTSTONE, MED DARK GRAY N4, NONCALCAREOUS, 3% LIGHT BROWN FINE TUFF FRAGMENTS 5YR 6/4	+-----		
1115	BCS 0000 1423		+-----		
1120	BCS 0000 1424	SILTSTONE, DARK GRAY N3, NONCALCAREOUS, 5-8% TUFF FRAGMENTS LIGHT BROWN 5YR 6/4	+-----		
1125	BCS 0000 1425	SILTSTONE, DARK GRAY N3, NONCALCAREOUS, MINOR TUFF FRAGMENTS AS TO 1105'	+-----		
1130	BCS 0000 1426		+-----		
1135	BCS 0000 1427		+-----		
1140	BCS 0000 1428		+-----		

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1140 To 1200 Page 20 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method IRTH 75 / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1145	BCS 0000 1429	SILTSTONE, GRAYISH BLACK N2 TO OLIVE BLACK SY 2/1, TRACE TUFF FRAGMENTS AS ABOVE NONCALCAREOUS	<div></div>		
1150	BCS 0000 1430				
1155	BCS 0000 1431	1155'-1160' - 40% OF SILTSTONE MEDIUM OLIVE GRAY SY 5/1	<div></div>		
1160	BCS 0000 1432				
1165	BCS 0000 1433	SILTSTONE AS ABOVE 1155'	<div></div>		
1170	BCS 0000 1434				
1175	BCS 0000 1435		<div></div>		
1180	BCS 0000 1436				
1185	BCS 0000 1437		<div></div>		
1190	BCS 0000 1438				
1195	BCS 0000 1439		<div></div>		
1200	BCS 0000 1440				

Prepared By BENT AAQUIST Date 1-26-99 Checked By ARTHUR J. MENDEZ Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NJC-ENDP-3D Drill Depth From 1200' To 1260' Page 21 of 42
 Driller _____ Start Date/Time _____ End Date/Time _____
 Drilling Equip./Method ARTH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1205	BCS 0000 1441	SILTSTONE AS ABOVE, DARK GRAY N3 TO N4			
1210	BCS 0000 1442				
1215	BCS 0000 1443	SILTSTONE TO VERY FINE GRAINED SANDSTONE MEDIUM GRAY N5			
1220	BCS 0000 1444	SILTSTONE, OLIVE GRAY 5Y 5/1, NONCALCAREOUS			
1225	BCS 0000 1445				
1230	BCS 0000 1446	5Y 4/1			
1235	BCS 0000 1447	SILTSTONE TO VERY FINE GRAINED SANDSTONE, MEDIUM GRAY N5			
1240	BCS 0000 1448	SILTSTONE, COARSE GRAINED, OLIVE GRAY 5Y 3/1 NONCALCAREOUS			
1245	BCS 0000 1449	SILTSTONE, DARK GRAY N3, WITH 5% TUFF FRAGMENTS ORANGE BROWN 5YR 6/2 NONCALCAREOUS			
1250	BCS 0000 1450	SILTSTONE, OLIVE GRAY 5Y 5/1 & MED. DARK GRAY N4			WATER ERUPTED OUT OF THE GROUND OUTSIDE THE CASING CEMENT L.C.M. PUMPED DOWN ANNULUS TO STOP RETURN WATER OUTSIDE RODS.
1255	BCS 0000 2551	MED DARK GRAY N4 WATER VOLUME INCREASED TO ~50 GAL/MIN			
1260	BCS 0000 2552				GEOPHYSICAL PROBE INDICATED WATER TEMP DOWN HOLE 63°C

Prepared By BENT AARQUIST Date 1-26-99 Checked By ARTHUR J. MENDOENHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1260' To 1320' Page 22 of 42
Driller _____ Start Date/Time _____ End Date/Time _____
Drilling Equip./Method T-RH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1265	BCS 0000 2553	SILTSTONE DARK GRAY N3 WITH VERY FINE GRAINED SANDSTONE MED BROWNISH GRAY SYR 5/1, ~35% RETURN WATER TEMP 29.5°C			
1270	BCS 0000 2554	SILTSTONE DARK GRAY N3 TO OLIVE GRAY SY 4/1			
1275	BCS 0000 2555	RETURN WATER TEMP 32.0°C			
1280	BCS 0000 2556				
1285	BCS 0000 2557				
1290	BCS 0000 2558	SILTSTONE, REWORKED CRYSTAL TUFF DARK GRAY N3 TO GRAYISH BLACK N2 WITH 2% WHITE N9 PUMICE FRAGMENTS AND QUARTZ PHENOCRYSTS TRACE FINE PYRITE LOCALLY			
1295	BCS 0000 2559				
1300	BCS 0000 2560	WHITE PUMICE AND QUARTZ PHENOCRYSTS 5%			
1305	BCS 0000 2561	WHITE PUMICE AND QUARTZ PHENOCRYSTS CONTENT DECREASE DOWN HOLE TO 1% AT 1320'			
1310	BCS 0000 2562				
1315	BCS 0000 2563				
1320	BCS 0000 2564				

Prepared By BENT AAGUIST Date 1-26-99 Checked By ARTHUR J. MENDENHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1320' To 1380' Page 23 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method FT TH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1325	BCS 0000 2565	SILTSTONE, REWORKED CRYSTAL TUFF AS ABOVE	<div></div>		
	BCS 0000 2566				
1330	BCS 0000 2567				
1335	BCS 0000 2568				
1340	BCS 0000 2569	COARSE SILTSTONE AND FINE GRAINED SANDSTONE, POSSIBLE REWORKED TUFF GRAINS OF QUARTZ, FELDSPAR AND MAFIC MINERALS, TRACE OF PYRITE LOCALLY MEDIUM GRAY N5 TO MEDIUM DARK GRAY N4 WITH LOCAL GRAYISH BLACK NR FRAGMENTS	<div></div>		
1345	BCS 0000 2570				
1350	BCS 0000 2571				
1355	BCS 0000 2572				
1360	BCS 0000 2573				
1365	BCS 0000 2574				
1370	BCS 0000 2575				
1375	BCS 0000 2576				
1380					

Prepared By BENT AARQUIST Date 1-26-99 Checked By ARTHUR J. MEADENHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 1380' To 1440' Page 24 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RTH75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1385'	BCS 0000 2577	COARSE SILTSTONE TO FINE GRAINED SANDSTONE POSSIBLE REWORKED TUFF - SOME FRAGMENTS HAVE WELDED TEXTURES, QUARTZ AND FELDSPAR CRYSTALS COMMON TRACE OF VERY FINE GRAINED PYRITE LOCALLY SIMILAR TO ABOVE - GRAYISH BLACK N2 FRAGMENTS ARE NOT PRESENT BELOW 1390'			
1390'	BCS 0000 2578				
1395'	BCS 0000 2579				
1400'	BCS 0000 2580				
1405'	BCS 0000 2581				
1410'	BCS 0000 2582				
1415'	BCS 0000 2583				
1420'	BCS 0000 2584				
1425'	BCS 0000 2585				
1430'	BCS 0000 2586				
1435'	BCS 0000 2587				
1440'	BCS 0000 2588				

Prepared By BENT AAQUIST Date 1-26-99 Checked By ARTHUR J. MENDENHALL Date 3-23-99

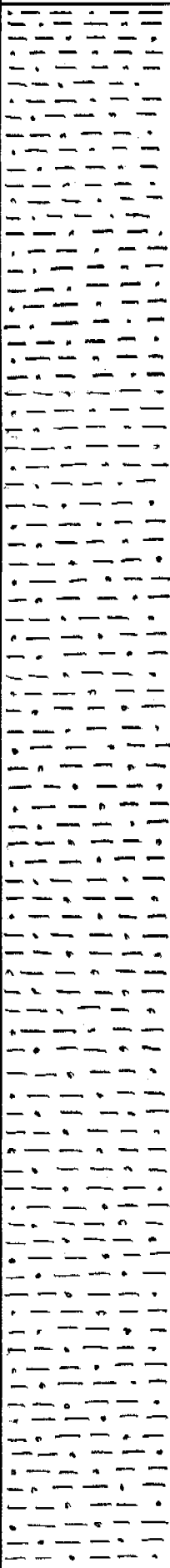
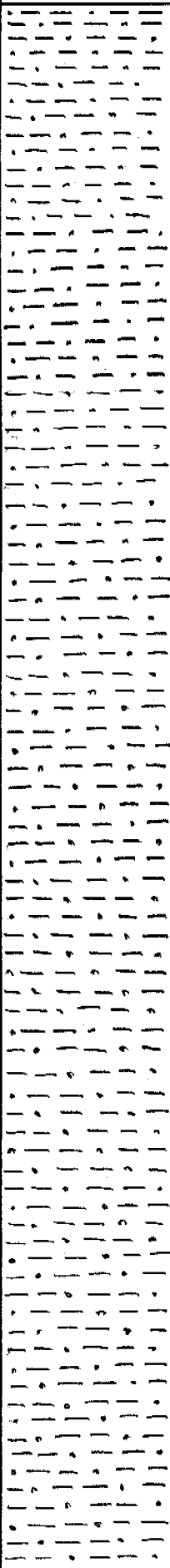
NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 1440' To 1500' Page 25 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1445	BCS 0000 2589	COARSE SILTSTONE TO FINE SANDSTONE AS ABOVE			
1450	BCS 0000 2590				
1455	BCS 0000 2591				
1460	BCS 0000 2592				
1465	BCS 0000 2593				
1470	BCS 0000 2594				
1475	BCS 0000 2595				
1480	BCS 0000 2596				
1485	BCS 0000 2597				
1490	BCS 0000 2598				
1495	BCS 0000 2599	5% GRAYISH BLACK N2 FRAGMENTS			
1500	BCS 0000 2600				

Prepared By BENT AAQUIST Date 1-26-99 Checked By ARTHUR J. MENDENHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1500' To 1560' Page 26 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH 75 E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1505	BCS 0000 2601	COARSE SILTSTONE AND SANDSTONE AS ABOVE			
1510	BCS 0000 2602				
1515	BCS 0000 2603				
1520	BCS 0000 2604	1515 TO 1520 MOSTLY SILTSTONE, FINE MATERIAL ONLY			
1525	BCS 0000 2605	AS ABOVE WITH 5-7% VERY FINE GRAINED CHERTY SILTSTONE DARK GRAY N3 UNIT IS MEDIUM GRAY N5 OVER ALL			
1530	BCS 0000 2606				
1535	BCS 0000 2607				
1540	BCS 0000 2608				
1545	BCS 0000 2609	MINOR FRAGMENTS OF GRAYISH YELLOW 5Y 8/4 TUFF WITH 10% QUARTZ PHENOCRYSTS AND 1-3% BLACK MAFIC MINERALS			
1550	BCS 0000 2610				
1555	BCS 0000 2611				
1560	BCS 0000 2612	8-10% CHERTY SILTSTONE AS ABOVE			

Prepared By BENT AAQUIST Date 1-26-99 - Checked By ARTHUR J. MENDEMHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID UC-EWDP-3D Drill Depth From 1560' To 1620' Page 27 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
	BCS 0000 2613	COARSE SILTSTONE AND FINE SANDSTONE AS ABOVE			
1565	BCS 0000 2614	CASH FLOW 1565-1625 TUFF - COMPOSITIONALLY SIMILAR TO ABOVE UNIT IS LIGHT GRAY N7 WITH LOCAL GRAYISH BLACK N2 CHERTY MASSES WITH VERY FINE GRAINED PYRITE CHERTY MASSES COMPOSE 5-7% AND ARE PART OF TUFFACEOUS MATRIX			
1570	BCS 0000 2615				
1575	BCS 0000 2616				
1580	BCS 0000 2617				
1585	BCS 0000 2618				
1590	BCS 0000 2619				
1595	BCS 0000 2620				
1600	BCS 0000 2621				
1605	BCS 0000 2622				
1610	BCS 0000 2623				
1615	BCS 0000 2624				RETURN WATER 364°C
1620					

Prepared By BENT AARQUIST Date 1-26-99 Checked By ARTHUR J. MENDEMHALL Date 3-23-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1620' To 1680' Page 28 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1625	BCS 0000 2625	TUFF, ASH FLOW, AS ABOVE, from 1565' on LITHICS INCREASING TOWARD BOTTOM OF UNIT AT 1625 FT,	+++++		
1630	BCS 0000 2626	TUFF, ASH FLOW, MEDIUM LIGHT GRAY NG, 15% QUARTZ/SANIDINE PHENOCRYSTS, 5% BIOTITE AND OTHER MAFIC PHENOCRYSTS, 20-30% LITHICS, BLACK M, DUSKY YELLOWISH BROWN 10YR 2/2, OR GRAYISH BROWN 5YR 3/2, TRACE PYRITE	+++++		
1635	BCS 0000 2627		+++++		
1640	BCS 0000 2628		+++++		
1645	BCS 0000 2629		+++++		
1650	BCS 0000 2630		+++++		RETURN WATER 32.5°C
1655	BCS 0000 2631		+++++		
1660	BCS 0000 2632		+++++		RETURN WATER 31.9°C
1665	BCS 0000 2633		+++++		
1670	BCS 0000 2634		+++++		
1675	BCS 0000 2635		+++++		
1680	BCS 0000 2636	1675-1700 30-40% LITHICS	+++++		

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1680 To 1740 Page 29 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-R TH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1685	BCS 0000 2637	TUFF, ASH FLOW, AS ABOVE, from 1565' on	+++++		
1690	BCS 0000 2638	10-20% LITHICS	+++++		
1695	BCS 0000 2639	10-20% LITHICS	+++++		
1700	BCS 0000 2640	10-20% LITHICS	+++++		
1705	BCS 0000 2641	10-20% LITHICS	+++++		
1710	BCS 0000 2642	10-20% LITHICS	+++++		
1715	BCS 0000 2643	SILTSTONE, SANDY, DUSKY YELLOWISH BROWN 10YR 2/2 OR DARK YELLOWISH BROWN 10YR 4/2, LAMINATED, UP TO 1% MOSTLY DISSEMINATED PYRITE.	-----		
1720	BCS 0000 2644	5% TUFF, ASH FALL, VERY LIGHT GRAY N8	-----		
1725	BCS 0000 2645	5% TUFF, ASH FALL, VERY LIGHT GRAY N8	-----		
1730	BCS 0000 2646	5% TUFF, ASH FALL, VERY LIGHT GRAY N8	-----		
1735	BCS 0000 2647	5% TUFF, ASH FALL, VERY LIGHT GRAY N8	-----		
1740	BCS 0000 2648	5% TUFF, ASH FALL, VERY LIGHT GRAY N8	+++++		

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NJC-EWDP-3D Drill Depth From 1740 To 1800 Page 30 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH 75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1745	BCS 0000 2649	TUFF, ASH FLOW, MEDIUM GRAY N5, 10% HORNBLENDE AND BIOTITE PHENOCRYSTS, 5-20% QUARTZ/SANIDINE PHENOCRYSTS 10% SILTSTONE, SANDY, OLIVE BLACK SY 2/1 10% " " " " " " TRACE LITHICS 10% LITHICS	+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1750	BCS 0000 2650		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1755	BCS 0000 2651		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1760	BCS 0000 2652		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1765	BCS 0000 2653		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1770	BCS 0000 2654		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1775	BCS 0000 2655		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1780	BCS 0000 2656		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1785	BCS 0000 2657		+++++		
			+++++		
			+++++		
			+++++		
			+++++		
			+++++		
1790	BCS 0000 2658	SILTSTONE, SANDY, BROWNISH BLACK SYR 2/1, 1% DISSEMINATED PYRITE. CLACUSTRINE,	-----		

1795	BCS 0000 2659		-----		

1800	BCS 0000 2660		-----		

CUTTINGS SAMPLE LOG

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RH75E, REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

Prepared By ARTHUR J. MENDENHALL Date 1-26-99 Checked By JAMIE WALKER Date 5-17-00

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NVC-EWDP-3D Drill Depth From 1860 To 1920 Page 32 of A2

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RTH75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1865	BCS 0000 2673	SILTSTONE, AS ABOVE	-----		
1870	BCS 0000 2674	TUFF, ASH FLOW, MEDIUM GRAY N5, 10-20% QUARTZ/SANIDINE PHENOCRYSTS, 5% MAFIC PHENOCRYSTS	+++++		
1875	BCS 0000 2675	SILTSTONE, SANDY, LACUSTRINE, BROWNISH BLACK 5YR 2/1 OR MEDIUM DARK GRAY N4	-----		
1880	BCS 0000 2676		-----		
1885	BCS 0000 2677	20% MODERATE YELLOWISH BROWN 10YR 5/4	-----		
1890	BCS 0000 2678		-----		
1895	BCS 0000 2679		-----		
1900	BCS 0000 2680		-----		
1905	BCS 0000 2681		-----		
1910	BCS 0000 2682		-----		
1915	BCS 0000 2683		-----		
1920	BCS 0000 2684	20% GRAYISH BLACK N2 MINOR WHITE N9 FRAGMENTS OF UNDERLYING UNIT	-----		

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 1920' To 1980' Page 33 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-R 175E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1925	BCS 0000 2685	SILTSTONE YELLOWISH BROWN 10YR 5/2 AND BROWNISH GRAY 5YR 3/1 AND QUARTZ SANDSTONE GRAINS VERY LIGHT GRAY NB, LOCAL FINE PYRITE IN SILTSTONE AND MINOR PYRITE NODULES			
1930	BCS 0000 2686	SILTSTONES AS ABOVE IN A VERY LIGHT GRAY CLAY NB UNIT >50% CLAY SLOW DRILLING			SLOW DRILLING
1935	BCS 0000 2687	SILTSTONE, BLACK N1, FINE GRAINED, MINOR MIXING OF ABOVE UNIT TO 1940'			
1940	BCS 0000 2688				
1945	BCS 0000 2689	10-15% COARSE SILTSTONE YELLOWISH BROWN 10YR 5/2			
1950	BCS 0000 2690	SILTSTONE 60% OLIVE GRAY, FINE GRAINED, 40% YELLOW GRAY 5Y 7/1			
1955	BCS 0000 2691	SILTSTONE VERY SHADES FROM DARK YELLOW BROWN 10YR 3/2 TO PALE YELLOW BROWN 10YR 7/2 DARKER COLORED CHIPS ARE FINER GRAINED THAN LIGHTER COLORED CHIPS			
1960	BCS 0000 2692				
1965	BCS 0000 2693				
1970	BCS 0000 2694				
1975	BCS 0000 2695				
1980	BCS 0000 2696				

Prepared By BENT AAQUIST Date 1-27-99 Checked By ARTHUR J. MENDENHALL Date 3-23-99

CUTTINGS SAMPLE LOG

Borehole ID DNC-FWDP-3D Drill Depth From 1980 To 2040 Page 34 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
1985	BCS 0000 2697	SILTSTONE, AS ABOVE			
	BCS 0000 2698				
1990	BCS 0000 2699	SILTSTONE, SANDY, LACUSTRAINE, GRAYISH BROWN 5YR 3/2			
1995	BCS 0000 2700				
2000		TUFF, ASH FALL OR REWORKED, LIGHT GRAY, 10% MAFIC PHENOCRYSTS.	+++++		
	BCS 0000 2701	SILTSTONE, SANDY, LACUSTRAINE, PALE BROWN 5YR 5/2 OR DARK GRAY N3, PARTLY CALCAROUS			FREE SAND IN CHIP TRAYS, 2000-2065 INTERVAL, IS SURFACE BLOW SAND.
2005	BCS 0000 2702				
2010	BCS 0000 2703				
2015	BCS 0000 2704				
2020		20% PALE BROWN SILTY MARL			
2025	BCS 0000 2705				
	BCS 0000 2706				
2030	BCS 0000 2707				
2035	BCS 0000 2708				
2040					

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 2040 To 2100 Page 35 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method I-RTT 75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2045	BCS 0000 2709	SILTSTONE, AS ABOVE			
2050	BCS 0000 2710				
2055	BCS 0000 2711				
2060	BCS 0000 2712				
2065	BCS 0000 2713				
2070	BCS 0000 2714	SILTSTONE LIGHT OLIVE GRAY SY 6/1 WITH THIN BLACK LAMINAE			RETURN WATER TEMP. 30.6°C
2075	BCS 0000 2715	SILTSTONE AS ABOVE 2065'			
2080	BCS 0000 2716				
2085	BCS 0000 2717				
2090	BCS 0000 2718	SILTSTONE AS ABOVE, WITH CLAY LAYERS CLAY IS CALCAREOUS, MEDIUM GRAY NY SLOW DRILL PENETRATION			
2095	BCS 0000 2719	AT 2089.5 WATER WAS BROWN 2090 WATER GRAY			
2100	BCS 0000 2720	2097' WATER DARK GRAY FOR 1'			

Prepared By ARTHUR J. MENDENHALL Date 1-27-99 Checked By JAMIE WALKER Date 5.17.00
BENT AARQUIST 1-28-99

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 2100 To 2160 Page 36 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RTH75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2105	BCS 0000 2721	APPROXIMATELY 60% SILTSTONE, LACUSTRINE, BROWNISH BLACK 5YR 2/1 NONCALCAREOUS TO VERY WEAKLY CALCAREOUS AND APPROXIMATELY 40% MARL, SILTY, PALE BROWN 5YR 5/2 LIKELY INTERBEDDED WITH SILTSTONE			
	BCS 0000 2722				
2110	BCS 0000 2723	MOSTLY SILTSTONE			
2115	BCS 0000 2724				
2120	BCS 0000 2725	MOSTLY SILTSTONE			
2125	BCS 0000 2726				
2130	BCS 0000 2727	MOSTLY SILTSTONE			
2135	BCS 0000 2728				
2140	BCS 0000 2729	MOSTLY SILTSTONE			
2145	BCS 0000 2730				
2150	BCS 0000 2731				
2155	BCS 0000 2732				
2160					

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 2160 To 2220 Page 37 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-RTT75E/REVERSE CIRCULATION Sampling Equip./Method CYCLONE/SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2165	BCS 0000 2733	SILTSTONE AND MARL, AS ABOVE. MOSTLY SILTSTONE TRACE GYPSUM			
2170	BCS 0000 2734				
2175	BCS 0000 2735				
2180	BCS 0000 2736				
2185	BCS 0000 2737				
2190	BCS 0000 2738				
2195	BCS 0000 2739				
2200	BCS 0000 2740				
2205	BCS 0000 2741				
2210	BCS 0000 2742				
2215	BCS 0000 2743				BIT GRINDING ROCK TO SAND SIZE WATER 35.3°C SAME AS ABOVE
2220	BCS 0000 2744				
					WATER 39°C

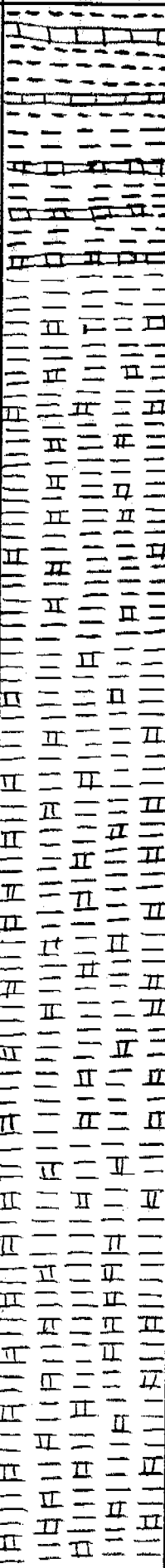
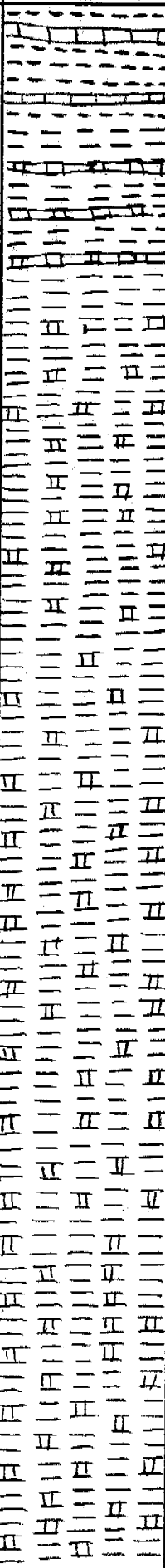
NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID N/C-EWDP-3D Drill Depth From 2220 To 2280 Page 38 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method T-R TH 75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2225	BCS 0000 2745	SILTSTONE AND MARL, AS ABOVE			BIT GRINDING ROCK TO MOSTLY SAND SIZE
2230	BCS 0000 2746	AS ABOVE MED LIGHT GRAY N6 TO LIGHT GRAY N7			
2235	BCS 0000 2747				
2240	BCS 0000 2748	AS ABOVE BUT WITH 10% FRAGMENTS YELLOWISH GRAY 5Y 8// TRACE PY MASSES			
2245	BCS 0000 2749	SILTSTONE AND MARL 90% DARK GRAY N3, 10% GRAYISH - YELLOW 5Y 7/4			
2250	BCS 0000 2750	SILTSTONE AND MARL, 20% DARK GRAY N3, 70% OLIVE GRAY 5Y 4 1/2 10% GRAYISH YELLOW 5Y 7/4			
2255	BCS 0000 2751				
2260	BCS 0000 2752				
2265	BCS 0000 2753	SILTSTONE AND MARL, DARK GRAY N3			
2270	BCS 0000 2754	AS ABOVE BUT WITH 15% LIGHT OLIVE GRAY 5Y 5/2			
2275	BCS 0000 2755				
2280	BCS 0000 2756				
					AT 2299' WATER 35.5°C

Prepared By ARTHUR J. MENDENHALL Date 2-2-99 Checked By JAMIE WALKER Date 5-17-00
BENT AAQUIST 2-4-99

CUTTINGS SAMPLE LOG

Drilling Equip./Method I-R TH75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

Prepared By BENT AARQUIST Date 2-4-99 Checked By JAMIE WALKER Date 5-18-00
ARTHUR J. MENDENHALL 2-4-99

NYE COUNTY NUCLEAR WASTE REPOSITORY PROJECT OFFICE

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 2340 To 2400 Page 40 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method ERTH 75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2345	BCS 0000 2769	SILTSTONE, LACUSTRINE, DARK GRAY N3 OR PALE YELLOWISH BROWN 10YR 6/2, WEAKLY CALCAREOUS	<div></div>		SAMPLE IN BUCKETS IS LAYERED, UPPER PART BLACK, LOWER PART BROWN
2350	BCS 0000 2770				AS ABOVE
2355	BCS 0000 2771				
2360	BCS 0000 2772	SILTSTONE, LACUSTRINE, DARK GRAY N3	<div></div>		WATER 34.7°C
2365	BCS 0000 2773				WATER 37.9°C
2370	BCS 0000 2774	SILTSTONE, LACUSTRINE, DARK GRAY N3 OR GRAYISH RED 10R 4/2	<div></div>		
2375	BCS 0000 2775				ALMOST NO CALCAREOUS REACTION
2380	BCS 0000 2776				
2385	BCS 0000 2777	SILTSTONE, LACUSTRINE, GRAYISH BLACK N2 OR PALE BROWN 5YR 5/2	<div></div>		
2390	BCS 0000 2778				TRACE PYRITE
2395	BCS 0000 2779	1% SANDSTONE, GRAYISH OLIVE GREEN 5GY 3/2.	<div></div>		
2400	BCS 0000 2780				

Prepared By ARTHUR J. MENDEMHALL Date 2-4-99 Checked By JAMIE WALKER Date 5-18-00

CUTTINGS SAMPLE LOG

Borehole ID DNC-EWDP-3D Drill Depth From 2400 To 2460 Page 41 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method TECH 75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2405	BCS 0000 2781	SILTSTONE, LACUSTRINE, DARK GRAY N3, OR SANDSTONE, LACUSTRINE, MEDIUM GRAY N5, VERY FINE GRAINED. VERY WEAKLY CALCAREOUS WEAKLY CALCAREOUS			
2410	BCS 0000 2782				
2415	BCS 0000 2783				
2420	BCS 0000 2784	SILTSTONE, LACUSTRINE, DARK GRAY N3, MINOR SANDSTONE, LIGHT GRAY N7			
2425	BCS 0000 2785				
2430	BCS 0000 2786	SILTSTONE, LACUSTRINE, DARK GRAY N3, SANDSTONE, MEDIUM GRAY N5, CLAY, MEDIUM GRAY IN THIS INTERVAL ONLY			GRADATIONAL CONTACT BETWEEN OVERLYING SILTSTONE AND SANDSTONE
2435	BCS 0000 2787				
2440	BCS 0000 2788				
2445	BCS 0000 2789				
2450	BCS 0000 2790				
2455	BCS 0000 2791				
2460	BCS 0000 2792				

CUTTINGS SAMPLE LOG

Borehole ID NC-EWDP-3D Drill Depth From 2460 To 2500 Page 42 of 42

Driller _____ Start Date/Time _____ End Date/Time _____

Drilling Equip./Method RT-75E / REVERSE CIRCULATION Sampling Equip./Method CYCLONE / SAMPLE SPLITTER

DEPTH (Feet)	Top/Bottom of Cuttings Sample Interval	Description of Lithology - Petrology	GRAPHIC LOG	Lithologic Unit	Notes
2465	BCS 0000 2793	SANDSTONE, LACUSTRINE, MEDIUM GRAY N5			
2470	BCS 0000 2794	SILTSTONE, LACUSTRINE, DARK GRAY N3			
2475	BCS 0000 2795	SANDSTONE, LACUSTRINE, MEDIUM GRAY N5, VERY FINE GRAINED			
2480	BCS 0000 2796				
2485	BCS 0000 2797				
2490	BCS 0000 2798				
2495	BCS 0000 2799				
2500	BCS 0000 2800	BECOMMING MEDIUM DARK GRAY N4			
		5% SILTSTONE, DARK GRAY N3			
	T.D.				