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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
9/10/2001	KDD	12/14/2001	BW	BCS00011026	0.00	2.50	0.0	0.9	0.0	7.0	10.0				5YR 4/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011027	2.50	5.00	0.0	0.9	0.0	14.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011028	5.00	7.50	0.0	0.9	0.0	11.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011029	7.50	10.00	0.0	1.1	0.0	12.0	10.0				5YR 4/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011030	10.00	12.50	0.0	1.1	0.0	16.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011031	12.50	15.00	0.0	1.1	0.0	12.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011032	15.00	17.50	0.0	1.4	0.0	13.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011033	17.50	20.00	0.0	1.4	0.0	8.0	10.0				5YR 4/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011034	20.00	22.50	0.0	1.4	0.0	12.0	10.0				5YR 4/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011035	22.50	25.00	0.0	1.4	0.0	16.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011036	25.00	27.50	0.0	1.7	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011037	27.50	30.00	0.0	1.7	0.0	9.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011038	30.00	32.50	0.0	1.7	0.0	8.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011039	32.50	35.00	0.0	1.7	0.0	26.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011040	35.00	37.50	0.0	1.1	0.0	10.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011041	37.50	40.00	0.0	1.1	0.0	12.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011042	40.00	42.50	0.0	1.1	0.0	11.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011043	42.50	45.00	0.0	1.1	0.0	20.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011044	45.00	47.50	0.0	1.1	0.0	6.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011045	47.50	50.00	0.0	0.7	0.0	23.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011046	50.00	52.50	0.0	0.7	0.0	13.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011047	52.50	55.00	0.0	0.7	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/10/2001	KDD	12/14/2001	BW	BCS00011048	55.00	57.50	0.0	0.7	0.0	13.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011050	60.00	62.50	0.0	0.7	0.0	7.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011051	62.50	65.00	0.0	0.7	0.0	7.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011052	65.00	67.50	0.0	0.7	0.0	23.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011053	67.50	70.00	0.0	1.3	0.0	7.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011054	70.00	72.50	0.0	1.3	0.0	10.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011055	72.50	75.00	0.0	1.3	0.0	13.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011056	75.00	77.50	0.0	1.3	0.0	16.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
9/12/2001	KDD	12/14/2001	BW	BCS00011057	77.50	80.00	0.0	0.6	0.0	4.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011058	80.00	82.50	0.0	0.6	0.0	6.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011059	82.50	85.00	0.0	0.6	0.0	30.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011060	85.00	87.50	0.0	1.1	0.0	6.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011061	87.50	90.00	0.0	1.1	0.0	9.0	10.0				5YR 5/6	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011062	90.00	92.50	0.0	1.1	0.0	8.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011063	92.50	95.00	0.0	1.1	0.0	21.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011064	95.00	97.50	0.0	1.4	0.0	8.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011065	97.50	100.00	0.0	1.4	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011066	100.00	102.50	0.0	1.4	0.0	14.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011067	102.50	105.00	0.0	1.4	0.0	23.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011068	105.00	107.50	0.0	1.1	0.0	7.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011069	107.50	110.00	0.0	1.1	0.0	12.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011070	110.00	112.50	0.0	1.1	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011071	112.50	115.00	0.0	1.1	0.0	24.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011072	115.00	117.50	0.0	1.3	0.0	9.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011073	117.50	120.00	0.0	1.3	0.0	8.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011074	120.00	122.50	0.0	1.3	0.0	8.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011075	122.50	125.00	0.0	1.3	0.0	25.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011076	125.00	127.50	0.0	1.3	0.0	6.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011077	127.50	130.00	0.0	1.3	0.0	10.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011078	130.00	132.50	0.0	1.3	0.0	16.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011079	132.50	135.00	0.0	1.3	0.0	27.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011080	135.00	137.50	0.0	0.8	0.0	7.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011081	137.50	140.00	0.0	0.8	0.0	13.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011082	140.00	142.50	0.0	0.8	0.0	14.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011083	142.50	145.00	0.0	0.8	0.0	16.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011084	145.00	147.50	0.0	0.8	0.0	20.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/14/2001	BW	BCS00011085	147.50	150.00	0.0	1.0	0.0	12.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011086	150.00	152.50	0.0	1.0	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Gra-ding		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
9/12/2001	KDD	12/15/2001	BW	BCS00011087	152.50	155.00	0.0	1.0	0.0	8.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011088	155.00	157.50	0.0	1.0	0.0	27.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011089	157.50	160.00	0.0	0.9	0.0	12.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011090	160.00	162.50	0.0	0.9	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011091	162.50	165.00	0.0	0.9	0.0	13.0	10.0				10YR 5/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/12/2001	KDD	12/15/2001	BW	BCS00011092	165.00	167.50	0.0	0.9	0.0	15.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011093	167.50	170.00	0.0	0.8	0.0	0.5	10.0				5YR 6/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011094	170.00	172.50	0.0	0.8	0.0	16.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011095	172.50	175.00	0.0	0.8	0.0	15.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011096	175.00	177.50	0.0	0.7	0.0	8.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011097	177.50	180.00	0.0	0.7	0.0	12.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011098	180.00	182.50	0.0	0.7	0.0	8.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011099	182.50	185.00	0.0	0.7	0.0	26.0	10.0				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011100	185.00	187.50	0.0	0.5	0.0	12.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011101	187.50	190.00	0.0	0.5	0.0	12.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011102	190.00	192.50	0.0	0.5	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011103	192.50	195.00	0.0	0.5	0.0	19.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011104	195.00	197.50	0.0	0.5	0.0	16.0	10.0				5YR 3/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011105	197.50	200.00	0.0	0.7	0.0	10.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011106	200.00	202.50	0.0	0.7	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011107	202.50	205.00	0.0	0.7	0.0	14.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011108	205.00	207.50	0.0	0.7	0.0	25.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011109	207.50	210.00	0.0	0.6	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011110	210.00	212.50	0.0	0.6	0.0	22.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011111	212.50	215.00	0.0	0.6	0.0	14.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011112	215.00	217.50	0.0	0.6	0.0	16.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011113	217.50	220.00	0.0	0.6	0.0	12.0	10.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011114	220.00	222.50	0.0	0.6	0.0	14.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011115	222.50	225.00	0.0	0.6	0.0	10.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011116	225.00	227.50	0.0	0.6	0.0	22.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
9/13/2001	KDD	12/15/2001	BW	BCS00011117	227.50	230.00	0.0	0.5	0.0	19.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011118	230.00	232.50	0.0	0.5	0.0	12.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011119	232.50	235.00	0.0	0.5	0.0	11.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011120	235.00	237.50	0.0	0.5	0.0	24.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011121	237.50	240.00	0.0	0.5	0.0	18.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011122	240.00	242.50	0.0	0.5	0.0	15.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011123	242.50	245.00	0.0	0.5	0.0	20.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/13/2001	KDD	12/15/2001	BW	BCS00011124	245.00	247.50	0.0	0.5	0.0	13.0	10.0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/18/2001	KDD	12/15/2001	BW	BCS00011125	247.50	250.00	0.0	0.2	0.0	16.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
9/18/2001	KDD	12/15/2001	BW	BCS00011126	250.00	252.50	0.0	0.1	0.0	8.0	10.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011127	252.50	255.00	4.0	0.2	0.0	0.3	10.0				10YR 6/6	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011128	255.00	257.50	4.0	0.2	1.0	0.3	10.0				10Y 6/6	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011129	257.50	260.00	1.0	0.5	1.0	5.0	10.0				5YR 5/2	☐	☐	☑						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011130	260.00	262.50	1.0	0.2	1.0	4.0	10.0				5YR 6/2	☐	☐	☑						▒	▒	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011131	262.50	265.00	0.5	0.2	1.0	5.0	10.0				5YR 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011132	265.00	267.50	0.5	0.3	1.0	5.0	10.0				10R 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011133	267.50	270.00	0.5	0.2	1.0	6.0	10.0				5YR 2/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011134	270.00	272.50	0.5	0.1	1.0	4.0	10.0				5YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011135	272.50	275.00	0.5	0.3	1.0	8.0	10.0				5YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011136	275.00	277.50	0.5	0.3	1.0	6.0	10.0				5YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011137	277.50	280.00	1.0	0.3	1.0	4.0	10.0				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011138	280.00	282.50	1.0	0.1	1.0	9.0	10.0				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011139	282.50	285.00	1.0	0.1	1.0	4.0	10.0				5R 2/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011140	285.00	287.50	1.0	0.2	1.0	7.0	10.0				5YR 2/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011141	287.50	290.00	1.0	0.1	1.0	3.0	10.0				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011142	290.00	292.50	1.0	0.1	1.0	0.3	10.0				5YR 5/4	☐	☐	☑						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2001	HJA	12/15/2001	BW	BCS00011143	292.50	295.00	1.0	0.1	1.0	3.0	10.0				5YR 2/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/31/2001	HJA	12/15/2001	BW	BCS00011144	295.00	297.50	0.0	0.1	0.0	2.0	10.0				5YR 3/2	☐	☑	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/31/2001	HJA	12/15/2001	BW	BCS00011145	297.50	300.00	0.0	0.1	0.0	5.0	10.0				5YR 4/2	☐	☑	☐						▒	▒	▒	▒	▒	▒		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/31/2001	HJA	12/15/2001	BW	BCS00011146	300.00	302.50	0.0	0.1	0.0	6.0	10.0				5YR 5/2	☐	☑	☐						▒	▒	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
11/1/2001	HJA	12/15/2001	BW	BCS00011147	302.50	305.00	0.0	0.1	0.0	6.0	10.0				5YR 5/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011148	305.00	307.50	0.0	0.0	0.0	0.3	7.1				5YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011149	307.50	310.00	0.0	0.2	0.0	0.3	7.1				10YR 5/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011150	310.00	312.50	0.0	0.2	0.0	0.3	7.1				5YR 3/1	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011151	312.50	315.00	0.0	0.2	0.0	2.0	7.1				5YR 3/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011152	315.00	317.50	0.0	0.3	0.0	1.0	7.1				5YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011153	317.50	320.00	0.0	0.2	0.0	3.5	7.1				5YR 4/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011154	320.00	322.50	0.0	0.3	0.0	2.0	7.1				5YR 5/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2001	HJA	12/15/2001	BW	BCS00011155	322.50	325.00	0.0	0.3	0.0	2.0	7.1				5YR 6/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011156	325.00	327.50	0.0	0.5	0.0	0.5	7.1				5YR 6/2	☑	☐	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011157	327.50	330.00	0.0	0.5	0.0	5.0	7.1				5YR 6/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011158	330.00	332.50	0.0	0.5	0.0	2.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011159	332.50	335.00	0.0	0.2	0.0	3.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011160	335.00	337.50	0.0	0.4	0.0	3.0	7.1				5YR 7/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011161	337.50	340.00	0.0	0.4	0.0	2.0	7.1				5YR 5/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011162	340.00	342.50	0.0	0.4	0.0	5.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011163	342.50	345.00	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011164	345.00	347.50	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011165	347.50	350.00	0.0	0.3	0.0	2.0	7.1				5YR 4/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011166	350.00	352.50	0.0	0.3	0.0	3.0	7.1				5YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011167	352.50	355.00	0.0	0.4	0.0	3.0	7.1				5YR 5/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011168	355.00	357.50	0.0	0.4	0.0	3.0	7.1				5YR 5/4	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011169	357.50	360.00	0.0	0.8	0.0	3.0	7.1				5YR 6/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011170	360.00	362.50	0.0	0.8	0.0	4.0	7.1				5YR 5/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011171	362.50	365.00	0.0	0.8	0.0	3.0	7.1				5YR 5/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011172	365.00	367.50	0.0	0.8	0.0	3.0	7.1				5YR 6/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011173	367.50	370.00	0.0	0.7	0.0	3.0	7.1				5YR 6/2	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011174	370.00	372.50	0.0	0.7	0.0	3.0	7.1				5YR 6/2	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011175	372.50	375.00	0.0	0.7	0.0	2.0	7.1				5YR 6/2	☑	☐	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011176	375.00	377.50	0.0	0.7	0.0	2.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
11/5/2001	HJA	12/15/2001	BW	BCS00011177	377.50	380.00	0.0	1.0	0.0	5.0	7.1				5YR 4/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011178	380.00	382.50	0.0	1.0	0.0	4.0	7.1				5YR 7/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011179	382.50	385.00	0.0	1.0	0.0	4.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011180	385.00	387.50	0.0	1.0	0.0	4.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011181	387.50	390.00	0.0	0.8	0.0	3.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011182	390.00	392.50	0.0	0.8	0.0	5.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011183	392.50	395.00	0.0	0.8	0.0	4.0	7.1				5YR 6/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011184	395.00	397.50	0.0	0.8	0.0	5.0	7.1				5YR 6/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2001	HJA	12/15/2001	BW	BCS00011185	397.50	400.00	0.0	0.9	0.0	2.0	7.1				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011186	400.00	402.50	0.0	0.9	0.0	2.0	7.1				5YR 6/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011187	402.50	405.00	0.0	0.9	0.0	3.0	7.1				5YR 6/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011188	405.00	407.50	0.0	0.9	0.0	5.0	7.1				5YR 6/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011189	407.50	410.00	0.0	0.9	0.0	3.0	7.1				5YR 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011190	410.00	412.50	0.0	0.9	0.0	3.0	7.1				5YR 3/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011191	412.50	415.00	0.0	0.9	0.0	4.0	7.1				5YR 4/2	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011192	415.00	417.50	0.0	0.9	0.0	6.0	7.1				5YR 5/6	☐	☑	☐						■	■	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011193	417.50	420.00	0.0	0.7	0.0	3.0	7.1				5YR 5/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011194	420.00	422.50	0.0	0.7	0.0	3.0	7.1				5YR 6/4	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011195	422.50	425.00	0.0	0.7	0.0	3.0	7.1				5YR 6/2	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011196	425.00	427.50	0.0	0.7	0.0	3.0	7.1				5YR 7/4	☑	☐	☐						■	■	☐	☐	☑	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011197	427.50	430.00	0.0	0.8	0.0	4.0	7.1				5YR 7/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011198	430.00	432.50	0.0	0.8	0.0	4.0	7.1				5YR 6/2	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011199	432.50	435.00	0.0	0.8	0.0	3.0	7.1				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011200	435.00	437.50	0.0	0.8	0.0	4.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011201	437.50	440.00	0.0	0.7	0.0	2.0	7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011202	440.00	442.50	0.0	0.7	0.0	3.0	7.1				5YR 7/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011203	442.50	445.00	0.0	0.7	0.0	4.0	7.1				5YR 7/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011204	445.00	447.50	0.0	0.7	0.0	3.0	7.1				5YR 6/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011205	447.50	450.00	0.0	0.8	0.0	2.0	7.1				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011206	450.00	452.50	0.0	0.8	0.0	4.0	7.1				5YR 6/4	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
11/6/2001	HJA	12/15/2001	BW	BCS00011207	452.50	455.00	0.0	0.8	0.0	3.0	7.1				5YR 6/4	☐	☑	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011208	455.00	457.50	0.0	0.8	0.0	3.0	7.1				5YR 6/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011209	457.50	460.00	0.0	0.6	0.0	2.0	7.1				5YR 5/6	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011210	460.00	462.50	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☐	☑	☐								☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011211	462.50	465.00	0.0	0.6	0.0	4.0	7.1				5YR 7/2	☐	☑	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011212	465.00	467.50	0.0	0.6	0.0	3.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011213	467.50	470.00	0.0	0.6	0.0	3.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011214	470.00	472.50	0.0	0.6	0.0	4.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011215	472.50	475.00	0.0	0.6	0.0	3.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011216	475.00	477.50	0.0	0.6	0.0	4.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011217	477.50	480.00	0.0	0.6	0.0	2.0	7.1				5YR 6/4	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011218	480.00	482.50	0.0	0.6	0.0	2.0	7.1				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011219	482.50	485.00	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☐	☑	☐								☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011220	485.00	487.50	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☐	☑	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011221	487.50	490.00	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☐	☑	☐								☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011222	490.00	492.50	0.0	0.6	0.0	3.0	7.1				5YR 6/2	☐	☑	☐								☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011223	492.50	495.00	0.0	0.6	0.0	2.0	7.1				5YR 6/2	☑	☐	☐								☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011224	495.00	497.50	0.0	0.6	0.0	2.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/6/2001	HJA	12/15/2001	BW	BCS00011225	497.50	500.00	0.0	0.6	0.0	2.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011226	500.00	502.50	0.0	0.1	0.0	2.0	7.1				5YR 6/2	☐	☑	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011227	502.50	505.00	0.0	0.6	0.0	1.0	7.1				5YR 6/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011228	505.00	507.50	0.0	0.6	0.0	1.0	7.1				5YR 7/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011229	507.50	510.00	0.0	0.6	0.0	1.0	7.1				5YR 6/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011230	510.00	512.50	0.0	0.6	0.0	1.0	7.1				5YR 6/2	☑	☐	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011231	512.50	515.00	0.0	0.6	0.0	1.0	7.1				5YR 6/2	☑	☐	☐								☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011232	515.00	517.50	0.0	0.6	0.0	1.0	7.1				5YR 6/2	☑	☐	☐								☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011233	517.50	520.00	0.0	0.6	0.0	2.0	7.1				5YR 6/4	☐	☑	☐								☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011234	520.00	522.50	0.0	1.3	0.0	2.0	7.1				5YR 6/4	☐	☑	☐								☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011235	522.50	525.00	0.0	0.2	0.0	3.0	7.1				5YR 6/4	☐	☑	☐								☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2001	HJA	12/15/2001	BW	BCS00011236	525.00	527.50	0.0	0.3	0.0	2.0	7.1				5YR 6/2	☑	☐	☐								☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Low	Moderate	High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Subangular	Subrounded	Rounded	Cementation: None	Weak	Moderate	Strong	HCL Reaction: None	Weak	Strong	Major Rock Type (%): Volcanics	Carbonates	Other
11/7/2001	HJA	12/15/2001	BW	BCS00011237	527.50	530.00	0.0	0.3	0.0	1.0	7.1				5YR 6/2	✓											✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011238	530.00	532.50	0.0	0.8	0.0	2.0	7.1				5YR 5/2	✓										✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011239	532.50	535.00	0.0	0.8	0.0	2.0	7.1				5YR 6/2	✓										✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011240	535.00	537.50	0.0	0.8	0.0	1.0	7.1				5YR 5/2	✓										✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011241	537.50	540.00	0.0	0.8	0.0	2.0	7.1				5YR 6/2		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011242	540.00	542.50	0.0	0.8	0.0	2.0	7.1				5YR 7/2		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011243	542.50	545.00	0.0	0.8	0.0	3.0	7.1				5YR 7/2	✓										✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011244	545.00	547.50	0.0	0.6	0.0	5.0	7.1				5YR 6/4		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011245	547.50	550.00	0.0	0.6	0.0	4.0	7.1				5YR 6/4		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011246	550.00	552.50	0.0	0.6	0.0	0.3	7.1				5YR 6/2		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011247	552.50	555.00	0.0	0.6	0.0	2.0	7.1				5YR 6/2		✓							✓			✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011248	555.00	557.50	0.0	0.6	0.0	1.0	7.1				5YR 7/2		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011249	557.50	560.00	0.0	0.6	0.0	3.0	7.1				5YR 7/2		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011250	560.00	562.50	0.0	0.6	0.0	1.0	7.1				5YR 7/2		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011251	562.50	565.00	0.0	0.6	0.0	3.0	7.1				5YR 7/2		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011252	565.00	567.50	0.0	0.5	0.0	1.0	7.1				5YR 7/2		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011253	567.50	570.00	0.0	0.6	0.0	3.0	7.1				5YR 6/4		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011254	570.00	572.50	0.0	0.6	0.0	4.0	7.1				5YR 6/4		✓										✓					✓				✓				✓			100		
11/30/2001	HJA	12/15/2001	BW	BCS00011255	572.50	575.00	0.0	0.6	0.0	4.0	7.1				5YR 6/4		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/28/2001	BW	BCS00011256	575.00	577.50	0.0	0.6	0.0	4.0	7.1				5YR 7/2	✓										✓						✓				✓				✓			100		
11/30/2001	HJA	12/28/2001	BW	BCS00011257	577.50	580.00	0.0	0.6	0.0	4.0	7.1				5YR 5/2		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/28/2001	BW	BCS00011258	580.00	582.50	0.0	0.6	0.0	3.0	7.1				5YR 6/4		✓									✓						✓				✓				✓			100		
11/30/2001	HJA	12/28/2001	BW	BCS00011259	582.50	585.00	0.0	0.6	0.0	4.0	7.1				5YR 6/4		✓							✓		✓						✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011260	585.00	587.50	0.0	0.7	0.0	3.0	7.1				5YR 7/2	✓										✓						✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011261	587.50	590.00	0.0	0.7	1.0		7.1				5YR 7/2		✓									✓						✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011262	590.00	592.50	0.0	0.7	1.0		7.1				5YR 6/4			✓									✓					✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011263	592.50	595.00	0.0	0.7	1.0		7.1				5YR 5/4			✓											✓				✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011264	595.00	597.50	0.0	0.7	1.0		7.1				5YR 6/2		✓											✓				✓				✓				✓			100		
12/1/2001	HJA	12/28/2001	BW	BCS00011265	597.50	600.00	0.0	0.7	1.0		7.1				5YR 5/4			✓									✓					✓				✓				✓			100		
12/1/2001	HJA	1/31/2002	BW	BCS00011266	600.00	602.50	0.0	0.7	3.0		7.1				5YR 7/2		✓									✓						✓				✓				✓			100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
12/1/2001	HJA	1/31/2002	BW	BCS00011267	602.50	605.00	0.0	0.7	3.0		7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011268	605.00	607.50	0.0	0.9	3.0		7.1				5YR 6/2	☐	☑	☐						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011269	607.50	610.00	0.0	0.9	3.0		7.1				5YR 6/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011270	610.00	612.50	0.0	0.9	3.0		7.1				5YR 6/2	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011271	612.50	615.00	0.0	0.9	3.0		7.1				5YR 5/4	☐	☐	☑						☑	☐	☐	☐	☑	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011272	615.00	617.50	0.0	0.9	3.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011273	617.50	620.00	0.0	0.9	3.0		7.1				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011274	620.00	622.50	0.0	0.9	3.0		7.1				5YR 6/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011275	622.50	625.00	0.0	0.9	3.0		7.1				5YR 6/4	☐	☑	☐						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011276	625.00	627.50	0.0	0.9	3.0		7.1				5YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011277	627.50	630.00	0.0	0.9	3.0		7.1				5YR 3/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011278	630.00	632.50	0.0	0.9	3.0		7.1				5YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011279	632.50	635.00	0.0	0.9	3.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011280	635.00	637.50	0.0	0.5	3.0		7.1				5YR 7/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011281	637.50	640.00	0.0	0.5	2.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011282	640.00	642.50	0.0	0.5	2.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011283	642.50	645.00	0.0	0.5	2.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011284	645.00	647.50	0.0	1.0	2.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011285	647.50	650.00	0.0	1.0	2.0		7.1				5YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011286	650.00	652.50	0.0	1.0	3.0		7.1				5YR 6/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011287	652.50	655.00	0.0	1.0	3.0		7.1				5YR 6/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011288	655.00	657.50	0.0	0.6	3.0		7.1				10R 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011289	657.50	660.00	0.0	0.6	3.0		7.1				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011290	660.00	662.50	0.0	0.6	3.0		7.1				5YR 5/6	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/1/2001	HJA	1/31/2002	BW	BCS00011291	662.50	665.00	0.0	0.6	3.0		7.1				5YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/13/2001	BW	1/27/2002	HJA	BCS00011292	665.00	667.50	0.0	0.5	4.0		7.1				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/13/2001	BW	1/27/2002	HJA	BCS00011293	667.50	670.00	0.0	0.5	4.0		7.1				5YR 5/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/13/2001	BW	1/27/2002	HJA	BCS00011294	670.00	672.50	0.0	0.5	4.0		7.1				5YR 5/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011295	672.50	675.00	0.0	0.7	4.0		7.1				5YR 5/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011296	675.00	677.50	0.0	0.7	10.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Drilling Data: Liquid Drilling Fluid Injection Rate (gpm)	Drilling Data: Drilling Rate (feet/min)	Drilling Data: Water Production (gpm)	Drilling Data: Sample Recovery (gallons)	Drilling Data: Borehole Diameter (inches)	Sample Density Measurements: Tare Weight (kg)	Sample Density Measurements: Sample Plus Tare Weight (kg)	Sample Density Measurements: Sample Weight (kg)	Munsell Color Symbol	Moisture Content: Dry	Moisture Content: Moist	Moisture Content: Wet	Particle Size Distribution (%): Gravel	Particle Size Distribution (%): Sand	Particle Size Distribution (%): Silt	Particle Size Distribution (%): Clay	Particle Size Distribution (%): Fines (Silt plus Clay)	Grading: Well Graded	Grading: Poorly Graded	Estimated Plasticity: None	Estimated Plasticity: Low	Estimated Plasticity: Moderate	Estimated Plasticity: High	USCS Group Symbol	Gravel/Sand GrainShape: Angular	Gravel/Sand GrainShape: Subangular	Gravel/Sand GrainShape: Subrounded	Gravel/Sand GrainShape: Rounded	Cementation: None	Cementation: Weak	Cementation: Moderate	Cementation: Strong	HCL Reaction: None	HCL Reaction: Weak	HCL Reaction: Strong	Major Rock Type (%): Volcanics	Major Rock Type (%): Carbonates	Major Rock Type (%): Other
12/14/2001	BW	1/27/2002	HJA	BCS00011297	677.50	680.00	0.0	0.7	12.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011298	680.00	682.50	0.0	0.7	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011299	682.50	685.00	0.0	0.3	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011300	685.00	687.50	0.0	0.3	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011301	687.50	690.00	0.0	0.3	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/14/2001	BW	1/27/2002	HJA	BCS00011302	690.00	692.50	0.0	0.3	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/15/2001	BW	1/27/2002	HJA	BCS00011303	692.50	695.00	0.0	0.7	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/15/2001	BW	1/27/2002	HJA	BCS00011304	695.00	697.50	0.0	0.7	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/15/2001	BW	1/27/2002	HJA	BCS00011305	697.50	700.00	0.0	0.7	15.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/15/2001	BW	1/27/2002	HJA	BCS00011306	700.00	702.50	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011307	702.50	705.00	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011308	705.00	707.50	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011309	707.50	710.00	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011310	710.00	712.50	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011311	712.50	715.00	0.0	0.9	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011312	715.00	717.50	0.0	0.9	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011313	717.50	720.00	0.0	0.9	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011314	720.00	722.50	0.0	0.9	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011315	722.50	725.00	0.0	0.7	16.5		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011316	725.00	727.50	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011317	727.50	730.00	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011318	730.00	732.50	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						▣	▣	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011319	732.50	735.00	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011320	735.00	737.50	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011321	737.50	740.00	0.0	0.7	17.0		7.1				5YR 5.5/3	☐	☐	☑						▣	▣	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/16/2001	BW	1/27/2002	HJA	BCS00011322	740.00	742.50	0.0	0.7	18.8		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011323	742.50	745.00	0.0	0.8	18.8		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011324	745.00	747.50	0.0	0.8	18.8		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011325	747.50	750.00	0.0	0.8	18.8		7.1				5YR 5.5/3	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011326	750.00	752.50	0.0	0.8	25.0		7.1				5YR 5.5/3	☐	☐	☑						▣	▣	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-10P** (Phase 3) Driller/Drilling Company: Alton Schoonmaker/THF Drilling Method: Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Depth Interval (feet bgs)		Drilling Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Gra-ding		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
					From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
12/17/2001	BW	1/27/2002	HJA	BCS00011327	752.50	755.00	0.0	0.6	25.0		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011328	755.00	757.50	0.0	0.6	25.0		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011329	757.50	760.00	0.0	0.6	25.0		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011330	760.00	762.50	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011331	762.50	765.00	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011332	765.00	767.50	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011333	767.50	770.00	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011334	770.00	772.50	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011335	772.50	775.00	0.0	0.4	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011336	775.00	777.50	0.0	0.4	37.5		7.1				5YR 5/2	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011337	777.50	780.00	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011338	780.00	782.50	0.0	0.6	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011339	782.50	785.00	0.0	0.8	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/17/2001	BW	1/27/2002	HJA	BCS00011340	785.00	787.50	0.0	0.8	37.5		7.1				5YR 5.5/3	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		