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

Borehole ID: **NC-EWDP-28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 240 Start Date: 10/21/2002 End Date: 10/22/2002

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) (gal)	Sample Plus Tare Weight (kg)	Sample Weight (kg) (gal)		DRY	MOIST	WET	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	WELL	POORLY	NONE	LOW	MODERATE	HIGH		ANGULAR	SUBANGULAR	SUBROUNDED	ROUNDED	NONE	WEAK	MODERATE	STRONG	NONE	WEAK	STRONG	VOLCANICS	CARBONATES	OTHER
10/21/2002	BW	11/24/2002	EJH	BCS00040900	0.00	2.50	0.0	0.3	0.0	1.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040901	2.50	5.00	0.0	0.3	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040902	5.00	7.50	0.0	0.3	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040903	7.50	10.00	0.0	0.3	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040904	10.00	12.50	1.0	0.3	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040905	12.50	15.00	1.0	0.3	0.0	2.0	6.5				5YR 4/4	☐	☑	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040906	15.00	17.50	1.0	0.3	0.0	2.5	6.5				5YR 4/4	☐	☑	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040907	17.50	20.00	0.0	0.3	0.0	3.0	6.5				5YR 4/4	☐	☑	☐					15	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040908	20.00	22.50	0.0	0.5	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					0	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040909	22.50	25.00	0.0	0.5	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					0	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040910	25.00	27.50	0.0	0.5	0.0	2.5	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040911	27.50	30.00	0.0	0.5	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040912	30.00	32.50	0.0	0.5	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040913	32.50	35.00	0.0	0.5	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040914	35.00	37.50	0.0	0.5	0.0	4.5	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040915	37.50	40.00	0.0	0.5	0.0	4.0	6.5				5YR 4/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040916	40.00	42.50	0.0	0.5	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040917	42.50	45.00	0.0	0.5	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040918	45.00	47.50	0.0	0.5	0.0	1.5	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040919	47.50	50.00	0.0	0.5	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040920	50.00	52.50	0.0	0.5	0.0	2.5	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040921	52.50	55.00	0.0	0.5	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					5	☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040922	55.00	57.50	0.0	0.5	0.0	2.5	6.5				5YR 4/4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/21/2002	BW	11/24/2002	EJH	BCS00040923	57.50	60.00	0.0	0.5	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040924	60.00	62.50	0.0	0.8	0.0	1.5	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040925	62.50	65.00	0.0	0.8	0.0	1.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	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 (%)					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) (gal)	Sample Plus Tare Weight (kg)	Sample Weight (kg) (gal)		DRY	MOIST	WET	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	WELL	POORLY	NONE	LOW	MODERATE	HIGH		ANGULAR	SUBANGULAR	SUBROUNDED	ROUNDED	NONE	WEAK	MODERATE	STRONG	NONE	WEAK	STRONG	VOLCANICS	CARBONATES	OTHER
10/22/2002	BW	11/24/2002	EJH	BCS00040926	65.00	67.50	0.0	0.8	0.0	0.5	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040927	67.50	70.00	0.0	0.8	0.0	0.5	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040928	70.00	72.50	0.0	0.8	0.0	0.5	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040929	72.50	75.00	0.0	0.8	0.0	1.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040930	75.00	77.50	0.0	0.8	0.0	1.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040931	77.50	80.00	0.0	0.8	0.0	1.5	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040932	80.00	82.50	0.0	0.8	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040933	82.50	85.00	0.0	0.8	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040934	85.00	87.50	0.0	0.8	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040935	87.50	90.00	0.0	0.8	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040936	90.00	92.50	0.0	0.8	0.0	2.5	6.5				5YR 5/6	☑	☐	☐					25	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040937	92.50	95.00	0.0	0.8	0.0	2.5	6.5				5YR 5/6	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040938	95.00	97.50	0.0	0.8	0.0	2.0	6.5				5YR 6/4	☑	☐	☐					20	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040939	97.50	100.00	0.0	0.8	0.0	2.0	6.5				5YR 5/6	☑	☐	☐					40	■	■	☐	☐	☑	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040940	100.00	102.50	0.0	0.8	0.0	3.0	6.5				5YR 5/6	☑	☐	☐					45	■	■	☐	☐	☐	☑		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040941	102.50	105.00	0.0	0.8	0.0	3.5	6.5				5YR 5/6	☑	☐	☐					45	■	■	☐	☐	☐	☑		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040942	105.00	107.50	0.0	0.8	0.0	2.0	6.5				5YR 5/6	☑	☐	☐					45	■	■	☐	☐	☑	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040943	107.50	110.00	0.0	0.8	0.0	3.0	6.5				5YR 5/6	☑	☐	☐					45	■	■	☐	☐	☑	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040944	110.00	112.50	0.0	0.8	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					35	■	■	☐	☐	☑	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040945	112.50	115.00	0.0	0.8	0.0	4.0	6.5				5YR 6/4	☑	☐	☐					35	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040946	115.00	117.50	0.0	0.8	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040947	117.50	120.00	0.0	0.8	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040948	120.00	122.50	0.0	0.8	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040949	122.50	125.00	0.0	0.4	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040950	125.00	127.50	0.0	0.4	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040951	127.50	130.00	0.0	0.4	0.0	2.5	6.5				5YR 6/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		

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10/22/2002	BW	11/24/2002	EJH	BCS00040952	130.00	132.50	0.0	0.4	0.0	2.0	6.5				5YR 6/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040953	132.50	135.00	0.0	2.5	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040954	135.00	137.50	0.0	2.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040955	137.50	140.00	0.0	2.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040956	140.00	142.50	0.0	2.5	0.0	4.0	6.5				5YR 5/6	☑	☐	☐					25	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040957	142.50	145.00	0.0	2.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040958	145.00	147.50	0.0	2.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040959	147.50	150.00	0.0	2.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					35	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040960	150.00	152.50	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040961	152.50	155.00	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040962	155.00	157.50	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040963	157.50	160.00	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040964	160.00	162.50	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040965	162.50	165.00	0.0	2.0	0.0	3.0	6.5				5YR 5/6	☑	☐	☐					10	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040966	165.00	167.50	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					40	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040967	167.50	170.00	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040968	170.00	172.50	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040969	172.50	175.00	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040970	175.00	177.50	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					35	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040971	177.50	180.00	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					35	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040972	180.00	182.50	0.0	2.0	0.0	4.0	6.5				10R 4/2	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040973	182.50	185.00	0.0	2.0	0.0	4.0	6.5				10R 4/2	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040974	185.00	187.50	0.0	2.0	0.0	4.0	6.5				10R 4/2	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040975	187.50	190.00	0.0	2.0	0.0	4.0	6.5				10R 4/2	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040976	190.00	192.50	0.0	2.0	0.0	4.0	6.5				10R 4/2	☑	☐	☐					15	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040977	192.50	195.00	0.0	2.0	0.0	3.0	6.5				5YR 6/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		

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

Borehole ID: **NC-EWDP-28P** (Phase 4) Driller/Drilling Company: Greg Secrist/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 240 Start Date: 10/21/2002 End Date: 10/22/2002

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) (gal)	Sample Plus Tare Weight (kg)	Sample Weight (kg) (gal)		DRY	MOIST	WET	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	WELL	POORLY	NONE	LOW	MODERATE	HIGH		ANGULAR	SUBANGULAR	SUBROUNDED	ROUNDED	NONE	WEAK	MODERATE	STRONG	NONE	WEAK	STRONG	VOLCANICS	CARBONATES	OTHER
10/22/2002	BW	11/24/2002	EJH	BCS00040978	195.00	197.50	0.0	2.0	0.0	3.0	6.5				10YR 7/4	☑	☐	☐					10	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040979	197.50	200.00	0.0	2.0	0.0	2.0	6.5				10YR 7/4	☑	☐	☐					6	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040980	200.00	202.50	0.0	2.0	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040981	202.50	205.00	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040982	205.00	207.50	0.0	2.0	0.0	3.0	6.5				10YR 6/2	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040983	207.50	210.00	0.0	2.0	0.0	2.0	6.5				10YR 6/2	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040984	210.00	212.50	0.0	2.0	0.0	4.0	6.5				10YR 6/2	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040985	212.50	215.00	0.0	2.0	0.0	3.5	6.5				10YR 6/2	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040986	215.00	217.50	0.0	2.0	0.0	3.5	6.5				10R 4/2	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040987	217.50	220.00	0.0	2.0	0.0	3.0	6.5				10R 4/2	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040988	220.00	222.50	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040989	222.50	225.00	0.0	2.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040990	225.00	227.50	0.0	2.0	0.0	3.0	6.5				10R 4/2	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040991	227.50	230.00	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					30	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040992	230.00	232.50	0.0	2.0	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040993	232.50	235.00	0.0	2.0	0.0	3.0	6.5				10YR 6/2	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040994	235.00	237.50	0.0	2.0	0.0	3.0	6.5				10YR 6/2	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☑	☐	100		
10/22/2002	BW	11/24/2002	EJH	BCS00040995	237.50	240.00	0.0	2.0	0.0	3.0	6.5				10YR 7/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		