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

Borehole ID: **NC-EWDP-16P** (Phase 4) Driller/Drilling Company: Greg Secrist & Larry Renolds/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 165 Start Date: 12/13/2002 End Date: 12/14/2002

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
12/13/2002	EJH	1/15/2003	BW	BCS00042501	0.00	2.50	0.0	1.4	0.0	2.0	6.5				5YR 4/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042502	2.50	5.00	0.0	1.4	0.0	2.5	6.5				5YR 4/4	☑	☐	☐					13	☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042503	5.00	7.50	0.0	1.4	0.0	3.0	6.5				5YR 4/4	☑	☐	☐					12	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042504	7.50	10.00	0.0	1.4	0.0	1.0	6.5				N3	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042505	10.00	12.50	0.0	1.4	0.0	1.5	6.5				N3	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042506	12.50	15.00	0.0	1.4	0.0	1.5	6.5				N4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042507	15.00	17.50	0.0	1.4	0.0	2.0	6.5				N4	☑	☐	☐					12	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042508	17.50	20.00	0.0	1.4	0.0	5.0	6.5				N4	☑	☐	☐					13	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042509	20.00	22.50	0.0	1.4	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					12	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042510	22.50	25.00	0.0	1.4	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042511	25.00	27.50	0.0	1.4	0.0	1.0	6.5				10YR 5/4	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042512	27.50	30.00	0.0	1.4	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042513	30.00	32.50	0.0	1.4	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042514	32.50	35.00	0.0	1.4	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					10	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042515	35.00	37.50	0.0	1.4	0.0	3.0	6.5				N3	☑	☐	☐					12	☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042516	37.50	40.00	0.0	1.4	0.0	2.5	6.5				N3	☑	☐	☐					14	☑	☐	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042517	40.00	42.50	0.0	1.5	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					42	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042518	42.50	45.00	0.0	1.5	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					44	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042519	45.00	47.50	0.0	1.5	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					45	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042520	47.50	50.00	0.0	1.5	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					48	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042521	50.00	52.50	0.0	1.5	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					52	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042522	52.50	55.00	0.0	1.5	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					58	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042523	55.00	57.50	0.0	1.5	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					51	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042524	57.50	60.00	0.0	1.5	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					52	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042525	60.00	62.50	0.0	1.5	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					50	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042526	62.50	65.00	0.0	1.3	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					50	▪	▪	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		

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Borehole ID: **NC-EWDP-16P** (Phase 4) Driller/Drilling Company: Greg Secrist & Larry Renolds/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 165 Start Date: 12/13/2002 End Date: 12/14/2002

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
12/13/2002	EJH	1/15/2003	BW	BCS00042527	65.00	67.50	0.0	1.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					52	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042528	67.50	70.00	0.0	1.3	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					53	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042529	70.00	72.50	0.0	1.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					53	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042530	72.50	75.00	0.0	1.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					55	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042531	75.00	77.50	0.0	1.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					55	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042532	77.50	80.00	0.0	1.3	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					37	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042533	80.00	82.50	0.0	2.2	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					55	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042534	82.50	85.00	0.0	2.2	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					50	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042535	85.00	87.50	0.0	2.2	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					50	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042536	87.50	90.00	0.0	2.2	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042537	90.00	92.50	0.0	2.2	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					46	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042538	92.50	95.00	0.0	2.2	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					50	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042539	95.00	97.50	0.0	2.2	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					50	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/13/2002	EJH	1/15/2003	BW	BCS00042540	97.50	100.00	0.0	2.2	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					51	■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042541	100.00	102.50	0.0	3.3	0.0	2.5	6.5				10YR 5/4	☑	☐	☐					53	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042542	102.50	105.00	0.0	3.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					52	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042543	105.00	107.50	0.0	3.3	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					55	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042544	107.50	110.00	0.0	3.3	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					52	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042545	110.00	112.50	0.0	3.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					52	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042546	112.50	115.00	0.0	3.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042547	115.00	117.50	0.0	3.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042548	117.50	120.00	0.0	3.3	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					25	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042549	120.00	122.50	0.0	2.9	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					45	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042550	122.50	125.00	0.0	2.9	0.0	3.5	6.5				10YR 5/4	☑	☐	☐					34	■	■	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042551	125.00	127.50	0.0	2.9	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					34	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042552	127.50	130.00	0.0	2.9	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					35	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	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) (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
12/14/2002	EJH	1/15/2003	BW	BCS00042553	130.00	132.50	0.0	2.9	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					40	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042554	132.50	135.00	0.0	2.9	0.0	4.0	6.5				10YR 5/4	☑	☐	☐					40	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042555	135.00	137.50	0.0	2.9	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					40	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042556	137.50	140.00	0.0	2.9	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					40	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042557	140.00	142.50	0.0	4.0	0.0	3.0	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042558	142.50	145.00	0.0	4.0	0.0	1.5	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042559	145.00	147.50	0.0	4.0	0.0	1.5	6.5				10YR 5/4	☑	☐	☐					10	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042560	147.50	150.00	0.0	4.0	0.0	1.0	6.5				10YR 5/4	☑	☐	☐					20	■	■	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042561	150.00	152.50	0.0	4.0	0.0	2.0	6.5				10YR 5/4	☑	☐	☐					2	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042562	152.50	155.00	0.0	4.0	0.0	2.5	6.5				10YR 4/2	☑	☐	☐					2	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042563	155.00	157.50	0.0	4.0	0.0	2.5	6.5				10YR 4/2	☑	☐	☐					3	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042564	157.50	160.00	0.0	4.0	0.0	2.0	6.5				10YR 4/2	☑	☐	☐					5	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042565	160.00	162.50	0.0	2.5	0.0	4.0	6.5				10YR 4/2	☑	☐	☐					10	☐	☑	☐	☑	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		
12/14/2002	EJH	1/15/2003	BW	BCS00042566	162.50	165.00	0.0	2.5	0.0	3.0	6.5				10YR 4/2	☑	☐	☐					12	☐	☑	☑	☐	☐	☐		☐	☐	☐	☑	☑	☐	☐	☐	☐	☐	☑	100		