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

Borehole ID: **NC-EWDP-24PA** (Phase 5)

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/25/2006	24PA-0-2.5-D	0.00	2.50	From 0 to 57.5 ft fines are lost at surface due to blow-by. Sample split from 0 to 57.5 ft is 1/2.
1/25/2006	24PA-2.5-5-D	2.50	5.00	Thin coatings on gravels.
1/25/2006	24PA-5-7.5-D	5.00	7.50	
1/25/2006	24PA-7.5-10-D	7.50	10.00	
1/25/2006	24PA-10-12.5-D	10.00	12.50	
1/25/2006	24PA-12.5-15-D	12.50	15.00	
1/25/2006	24PA-15-17.5-D	15.00	17.50	
1/25/2006	24-PA-17.5-20-D	17.50	20.00	
1/25/2006	24PA-20-22.5-D	20.00	22.50	First appearance of basalt gravel clast chips, black (N2.5) and vesicular.
1/25/2006	24PA-22.5-25-D	22.50	25.00	
1/25/2006	24PA-25-27.5-D	25.00	27.50	Presence of calcite chips possibly as fracture fill.

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1/25/2006	24PA-27.5-30-D	27.50	30.00	Presence of black vesicular basalt gravel clast chips from 30 to 37.5 ft.
1/25/2006	24PA-30-32.5-D	30.00	32.50	
1/25/2006	24PA-32.5-35-D	32.50	35.00	
1/25/2006	24PA-35-37.5-D	35.00	37.50	
1/25/2006	24PA-37.5-40-D	37.50	40.00	
1/25/2006	24PA-40-42.5-D	40.00	42.50	
1/25/2006	24PA-42.5-45-D	42.50	45.00	
1/25/2006	24PA-45-47.5-D	45.00	47.50	
1/25/2006	24PA-47.5-50-D	47.50	50.00	Large ashflow tuff chip 1 1/4 in.
1/25/2006	24PA-50-52.5-D	50.00	52.50	
1/25/2006	24PA-52.5-55-D	52.50	55.00	Chips of calcite in sample (<1%).

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1/25/2006	24PA-55-57.5-D	55.00	57.50	6 3/4in borehole from 0 to 57.7 ft. Heavy grain coatings. Large (1") basalt gravel clast chips @ 57.5 ft.
1/26/2006	24PA-57.5-60-D	57.50	60.00	Sample split = 1/4. Samples are moist from 57.5 to 60 ft resulting from injection during 16" casing set.
1/26/2006	24PA-60-62.5-D	60.00	62.50	Samples are moist from drill injection water from 60 to 87.5 ft for dust control.
1/26/2006	24PA-62.5-65-D	62.50	65.00	Presence of 1 chip (3/4") of cemented sand grains.
1/26/2006	24PA-65-67.5-D	65.00	67.50	From 67.5 to 85 ft appears to be boulders (no reaction to HCL, coarse grained)
1/26/2006	24PA-67.5-70-D	67.50	70.00	
1/26/2006	24PA-70-72.5-D	70.00	72.50	Contains 1 well rounded sandstone fragment 1 3/4 in.
1/26/2006	24PA-72.5-75-D	72.50	75.00	Rounded basalt fragment 1 in. Degree of rounding may be over-estimated due to small gravel size.
1/26/2006	24PA-75-77.5-D	75.00	77.50	
1/26/2006	24PA-77.5-80-D	77.50	80.00	
1/26/2006	24PA-80-82.5-D	80.00	82.50	Sample is muddy from increased injection.

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1/26/2006	24PA-82.5-85-D	82.50	85.00	
1/26/2006	24PA-85-87.5-D	85.00	87.50	
1/26/2006	24PA-87.5-90-D	87.50	90.00	Sample is dry - no injection water used.
1/26/2006	24PA-90-92.5-D	90.00	92.50	
1/26/2006	24PA-92.5-95-D	92.50	95.00	
1/26/2006	24PA-95-97.5-D	95.00	97.50	Chips of quartz in sample (<1%) ? filling fractures?
1/26/2006	24PA-97.5-100-D	97.50	100.00	
1/26/2006	24PA-100-102.5-D	100.00	102.50	
1/26/2006	24PA-102.5-105-D	102.50	105.00	
1/26/2006	24PA-105-107.5-D	105.00	107.50	
1/26/2006	24PA-107.5-110-D	107.50	110.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/26/2006	24PA-110-112.5-D	110.00	112.50	More clay in fines - sticky, stains the hands, low plasticity.
1/26/2006	24PA-112.5-115-D	112.50	115.00	
1/26/2006	24PA-115-117.5-D	115.00	117.50	
1/26/2006	24PA-117.5-120-D	117.50	120.00	
1/26/2006	24PA-120-122.5-D	120.00	122.50	
1/26/2006	24PA-122.5-125-D	122.50	125.00	
1/26/2006	24PA-125-127.5-D	125.00	127.50	
1/26/2006	24PA-127.5-130-D	127.50	130.00	
1/26/2006	24PA-130-132.5-D	130.00	132.50	
1/26/2006	24PA-132.5-135-D	132.50	135.00	
1/26/2006	24PA-135-137.5-D	135.00	137.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/26/2006	24PA-137.5-140-D	137.50	140.00	Small sample (0.5 gallon).
1/26/2006	24PA-140-142.5-D	140.00	142.50	
1/26/2006	24PA-142.5-145-D	142.50	145.00	
1/27/2006	24PA-145-147.5-D	145.00	147.50	
1/27/2006	24PA-147.5-150-D	147.50	150.00	
1/27/2006	24PA-150-151.8-D	150.00	151.80	Abandoned 24PA at 151.8 ft due to broken casing shoe bit.