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

Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/29/2006	24PB-0-2.5-D	0.00	2.50	Loss of fines at diverter and cyclone due to air winnowing. Sample split is 1/2 from 0-20 ft.
1/29/2006	24PB-2.5-5-D	2.50	5.00	
1/29/2006	24PB-5-7.5-D	5.00	7.50	
1/29/2006	24PB-7.5-10-D	7.50	10.00	
1/29/2006	24PB-10-12.5-D	10.00	12.50	Thick (1-3mm) grain coatings of calcium carbonate on gravel clasts.
1/29/2006	24PB-12.5-15-D	12.50	15.00	
1/29/2006	24PB-15-17.5-D	15.00	17.50	
1/29/2006	24PB-17.5-20-D	17.50	20.00	First appearance of basalt gravel clasts, vessicular and black (N2.5).
1/29/2006	24PB-20-22.5-D	20.00	22.50	Sample is not split from 20 ft-72.5 ft because sample was too small.
1/29/2006	24PB-22.5-25-D	22.50	25.00	
1/29/2006	24PB-25-27.5-D	25.00	27.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/29/2006	24PB-27.5-30-D	27.50	30.00	First appearance of glassy vitrophyre gravel clasts.
1/29/2006	24PB-30-32.5-D	30.00	32.50	
1/29/2006	24PB-32.5-35-D	32.50	35.00	Hole is unstable. Loose sediments caving on top of bit (32.5 ft-57.5 ft).
1/29/2006	24PB-35-37.5-D	35.00	37.50	Lots of rod lifting and potential for contamination (32.5 ft-57.5 ft).
1/29/2006	24PB-37.5-40-D	37.50	40.00	
1/29/2006	24PB-40-42.5-D	40.00	42.50	
1/29/2006	24PB-42.5-45-D	42.50	45.00	
1/29/2006	24PB-45-47.5-D	45.00	47.50	
1/29/2006	24PB-47.5-50-D	47.50	50.00	First sediment that does not react with HCL.
1/29/2006	24PB-50-52.5-D	50.00	52.50	Beginning to see some rounding of clasts.
1/29/2006	24PB-52.5-55-D	52.50	55.00	Sediments are loose and caving in, borehole is difficult drilling.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/29/2006	24PB-55-57.5-D	55.00	57.50	
1/30/2006	24PB-57.5-60-D	57.50	60.00	
1/30/2006	24PB-60-62.5-D	60.00	62.50	Sample weight not recorded for this sample.
1/30/2006	24PB-62.5-65-D	62.50	65.00	Increase in sample size (4 gallons) because hole is hogging-out.
1/30/2006	24PB-65-67.5-D	65.00	67.50	
1/30/2006	24PB-67.5-70-D	67.50	70.00	
1/30/2006	24PB-70-72.5-D	70.00	72.50	Sample split is 1/2 from 72.5ft-420 ft.
1/30/2006	24PB-72.5-75-D	72.50	75.00	Increased basalt clast content (20%).
1/30/2006	24PB-75-77.5-D	75.00	77.50	50% of gravel is basalt.
1/30/2006	24PB-77.5-80-D	77.50	80.00	Basalt clast content reduced to 5%.
1/30/2006	24PB-80-82.5-D	80.00	82.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/30/2006	24PB-82.5-85-D	82.50	85.00	
1/30/2006	24PB-85-87.5-D	85.00	87.50	
1/30/2006	24PB-87.5-90-D	87.50	90.00	
1/30/2006	24PB-90-92.5-D	90.00	92.50	Gravel contains large quartz fragments up to 3/4".
1/30/2006	24PB-92.5-95-D	92.50	95.50	
1/30/2006	24PB-95-97.5-D	95.50	97.50	30% basalt gravel clasts.
1/30/2006	24PB-97.5-100-D	97.50	100.00	
1/30/2006	24PB-100-102.5-D	100.00	102.50	
1/30/2006	24PB-102.5-105-D	102.50	105.00	Bad drilling. Unstable formation.
1/30/2006	24PB-105-107.5-D	105.00	107.50	
1/30/2006	24PB-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
1/30/2006	24PB-110-112.5-D	110.00	112.50	
1/30/2006	24PB-112.5-115-D	112.50	115.00	
1/30/2006	24PB-115-117.5-D	115.00	117.50	
1/30/2006	24PB-117.5-120-D	117.50	120.00	
1/30/2006	24PB-120-122.5-D	120.00	122.50	
1/30/2006	24PB-122.5-125-D	122.50	125.00	
1/30/2006	24PB-125-127.5-D	125.00	127.50	Very slight moisture.
1/30/2006	24PB-127.5-130-D	127.50	130.00	
1/30/2006	24PB-130-132.5-D	130.00	132.50	
1/30/2006	24PB-132.5-135-D	132.50	135.00	
1/30/2006	24PB-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
1/31/2006	24PB-137.5-140-D	137.50	140.00	Wet sample is due to conditioning. All fines are lost.
1/31/2006	24PB-140-142.5-D	140.00	142.50	Moist sample is due to conditioning. All fines are lost.
1/31/2006	24PB-142.5-145-D	142.50	145.00	Loss of fines due to conditioning water (sticking to drill pipe).
1/31/2006	24PB-145-147.5-D	145.00	147.50	Slightly moist, possibly natural formation moisture.
1/31/2006	24PB-147.5-150-D	147.50	150.00	
1/31/2006	24PB-150-152.5-D	150.00	152.50	
1/31/2006	24PB-152.5-155-D	152.50	155.00	Slightly moist. Possibly natural moisture.
1/31/2006	24PB-155-157.5-D	155.00	157.50	
1/31/2006	24PB-157.5-160-D	157.50	160.00	
1/31/2006	24PB-160-162.5-D	160.00	162.50	
1/31/2006	24PB-162.5-165-D	162.50	165.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/31/2006	24PB-165-167.5-D	165.00	167.50	
1/31/2006	24PB-167.5-170-D	167.50	170.00	
1/31/2006	24PB-170-172.5-D	170.00	172.50	
1/31/2006	24PB-172.5-175-D	172.50	175.00	First occurrence of clay percentage being greater than silt. Clay is sticky and stains the hand.
1/31/2006	24PB-175-177.5-D	175.00	177.50	Sample is moist from conditioning. Also a loss of fines due to sticking of fines in drill pipe.
1/31/2006	24PB-177.5-180-D	177.50	180.00	
1/31/2006	24PB-180-182.5-D	180.00	182.50	
1/31/2006	24PB-182.5-185-D	182.50	185.00	
1/31/2006	24PB-185-187.5-D	185.00	187.50	Moisture appears to be natural because hole doesn't dry when it's blow-dried.
1/31/2006	24PB-187.5-190-D	187.50	190.00	
1/31/2006	24PB-190-192.5-D	190.00	192.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
1/31/2006	24PB-192.5-195-D	192.50	195.00	
1/31/2006	24PB-195-197.5-D	195.00	197.50	
1/31/2006	24PB-197.5-200-D	197.50	200.00	Uniform lithology.
1/31/2006	24PB-200-202.5-D	200.00	202.50	
1/31/2006	24PB-202.5-205-D	202.50	205.00	
1/31/2006	24PB-205-207.5-D	205.00	207.50	
2/1/2006	24PB-207.5-210-D	207.50	210.00	Driller notes water in borehole. Sample is wet. Only 2 prominent gravel types.
2/1/2006	24PB-210-212.5-D	210.00	212.50	2 prominent gravel types: ashflow tuff; grayish brown (10YR 5/2) and reddish brown (5YR 4/3).
2/1/2006	24PB-212.5-215-D	212.50	215.00	Slug the hole with a different polymer and foam mixture.
2/1/2006	24PB-215-217.5-D	215.00	217.50	
2/1/2006	24PB-217.5-220-D	217.50	220.00	No split - collected entire sample. Sample is drier.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
2/1/2006	24PB-220-222.5-D	220.00	222.50	Sample is even drier. Sample has an odor like detergent (drilling additive).
2/1/2006	24PB-222.5-225-D	222.50	225.00	
2/1/2006	24PB-225-227.5-D	225.00	227.50	First appearance of a clayey sand (SC).
2/1/2006	24PB-227.5-230-D	227.50	230.00	First appearance of true rounded grains.
2/1/2006	24PB-230-232.5-D	230.00	232.50	Very slight moisture.
2/1/2006	24PB-232.5-235-D	232.50	235.00	Presence of sandstone fragments (1% - 2%).
2/1/2006	24PB-235-237.5-D	235.00	237.50	Approximately 5% - 10% sandstone fragments, a few show rounded surfaces like gravel.
2/1/2006	24PB-237.5-240-D	237.50	240.00	
2/1/2006	24PB-240-242.5-D	240.00	242.50	
2/1/2006	24PB-242.5-245-D	242.50	245.00	
2/1/2006	24PB-245-247.5-D	245.00	247.50	Slightly moist.

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
2/1/2006	24PB-247.5-250-D	247.50	250.00	Approximately 5% rounded sandstone gravels.
2/1/2006	24PB-250-252.5-D	250.00	252.50	
2/1/2006	24PB-252.5-255-D	252.50	255.00	
2/1/2006	24PB-255-257.5-D	255.00	257.50	
2/1/2006	24PB-257.5-260-D	257.50	260.00	
2/1/2006	24PB-260-262.5-D	260.00	262.50	
2/1/2006	24PB-262.5-265-D	262.50	265.00	
2/1/2006	24PB-265-267.5-D	265.00	267.50	Contaminated with foam and rinsed with water. Sampled but no gravel weighing.
2/1/2006	24PB-267.5-270-D	267.50	270.00	
2/1/2006	24PB-270-272.5-D	270.00	272.50	
2/1/2006	24PB-272.5-275-D	272.50	275.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
2/1/2006	24PB-275-277.5-D	275.00	277.50	
2/1/2006	24PB-277.5-280-D	277.50	280.00	
2/1/2006	24PB-280-282.5-D	280.00	282.50	
2/1/2006	24PB-282.5-285-D	282.50	285.00	Bit plugged because of high clay content.
2/1/2006	24PB-285-287.5-D	285.00	287.50	
2/1/2006	24PB-287.5-290-D	287.50	290.00	
2/1/2006	24PB-290-292.5-D	290.00	292.50	Bit stuck because loose bouldery formation is caving.
2/2/2006	24PB-292.5-295-D	292.50	295.00	
2/2/2006	24PB-295-297.5-D	295.00	297.50	
2/2/2006	24PB-297.5-300-D	297.50	300.00	
2/2/2006	24PB-300-302.5-D	300.00	302.50	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
2/2/2006	24PB-302.5-305-D	302.50	305.00	
2/2/2006	24PB-305-307.5-D	305.00	307.50	
2/2/2006	24PB-307.5-310-D	307.50	310.00	
2/2/2006	24PB-310-312.5-D	310.00	312.50	
2/2/2006	24PB-312.5-315-D	312.50	315.00	
2/2/2006	24PB-315-317.5-D	315.00	317.50	
2/2/2006	24PB-317.5-320-D	317.50	320.00	
2/2/2006	24PB-320-322.5-D	320.00	322.50	
2/2/2006	24PB-322.5-325-D	322.50	325.00	
2/2/2006	24PB-325-327.5-D	325.00	327.50	
2/2/2006	24PB-327.5-330-D	327.50	330.00	

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Date Logged	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Comments
2/2/2006	24PB-330-332.5-D	330.00	332.50	
2/2/2006	24PB-332.5-335-D	332.50	335.00	
2/2/2006	24PB-335-337.5-D	335.00	337.50	
2/2/2006	24PB-337.5-340-D	337.50	340.00	
2/2/2006	24PB-340-342.5-D	340.00	342.50	
2/2/2006	24PB-342.5-345-D	342.50	345.00	
2/2/2006	24PB-345-347.5-D	345.00	347.50	
2/2/2006	24PB-347.5-350-D	347.50	350.00	
2/2/2006	24PB-350-352.5-D	350.00	352.50	Ashy matrix (350 ft-352.5 ft).
2/2/2006	24PB-352.5-355-D	352.50	355.00	Lithologies are very uniform with only 1 or 2 lithic types. A few gravel clasts are rounded and have grain coatings.
2/2/2006	24PB-355-357.5-D	355.00	357.50	

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2/2/2006	24PB-357.5-360-D	357.50	360.00	
2/2/2006	24PB-360-362.5-D	360.00	362.50	
2/2/2006	24PB-362.5-365-D	362.50	365.00	
2/2/2006	24PB-365-367.5-D	365.00	367.50	Ashy matrix.
2/2/2006	24PB-367.5-370-D	367.50	370.00	
2/2/2006	24PB-370-372.5-D	370.00	372.50	
2/2/2006	24PB-372.5-375-D	372.50	375.00	
2/2/2006	24PB-375-377.5-D	375.00	377.50	
2/2/2006	24PB-377.5-380-D	377.50	380.00	
2/2/2006	24PB-380-382.5-D	380.00	382.50	
2/2/2006	24PB-382.5-385-D	382.50	385.00	

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2/2/2006	24PB-385-387.5-D	385.00	387.50	
2/2/2006	24PB-387.5-390-D	387.50	390.00	
2/2/2006	24PB-390-392.5-D	390.00	392.50	
2/2/2006	24PB-392.5-395-D	392.50	395.00	
2/2/2006	24PB-395-397.5-D	395.00	397.50	Uniform lithology - only 2-3 types of gravel clasts. Gravels have rounded surface and coatings.
2/7/2006	24PB-397.5-400-D	397.50	400.00	
2/7/2006	24PB-400-402.5-D	400.00	402.50	
2/7/2006	24PB-402.5-405-D	402.00	405.00	Bedrock at 405 ft.