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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/13/2001	KDD	8/11/2001	GH	BCS00008401	0.00	2.50	0.0	2.5	0.0	2.5	5.4				10YR 8/2	☑	☐	☐						☐	☑	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008402	2.50	5.00	0.0	2.5	0.0	3.2	5.4				10YR 8/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008403	5.00	7.50	4.0	2.5	0.0	4.0	5.4				5YR 6/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008404	7.50	10.00	4.0	1.3	0.0	3.9	5.4				5YR 4/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008405	10.00	12.50	4.0	1.3	0.0	3.2	5.4				5YR 4/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008406	12.50	15.00	4.0	1.3	0.0	1.2	5.4				5YR 4/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008407	15.00	17.50	4.0	1.3	0.0	2.3	5.4				5YR 4/4	☐	☑	☐						☐	☑	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008408	17.50	20.00	4.0	1.3	0.0	3.5	5.4				5R 5/4	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/13/2001	KDD	8/11/2001	GH	BCS00008409	20.00	22.50	4.0	1.3	0.0	1.3	5.4				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008410	22.50	25.00	0.0	2.5	0.0	2.3	5.4				10YR 8/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008411	25.00	27.50	0.0	1.3	0.0	2.4	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008412	27.50	30.00	0.0	1.7	0.0	2.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008413	30.00	32.50	0.0	1.7	0.0	2.5	5.4				10YR 4/2	☐	☑	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008414	32.50	35.00	0.0	1.1	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008415	35.00	37.50	0.0	1.1	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008416	37.50	40.00	0.0	1.1	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008417	40.00	42.50	0.0	1.1	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008418	42.50	45.00	0.0	1.4	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008419	45.00	47.50	0.0	1.4	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008420	47.50	50.00	0.0	1.4	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008421	50.00	52.50	0.0	1.4	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008422	52.50	55.00	0.0	2.5	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008423	55.00	57.50	0.0	2.5	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008424	57.50	60.00	0.0	2.5	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008425	60.00	62.50	0.0	2.5	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008426	62.50	65.00	0.0	5.0	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008427	65.00	67.50	0.0	5.0	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008428	67.50	70.00	0.0	5.0	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008429	70.00	72.50	0.0	0.2	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008430	72.50	75.00	0.0	0.2	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/14/2001	KDD	8/11/2001	GH	BCS00008431	75.00	77.50	0.0	0.2	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008432	77.50	80.00	0.0	0.2	0.0	1.3	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008433	80.00	82.50	0.0	0.3	0.0	4.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008434	82.50	85.00	0.0	0.3	0.0	2.6	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008435	85.00	87.50	0.0	0.6	0.0	4.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008436	87.50	90.00	0.0	0.4	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008437	90.00	92.50	0.0	0.3	0.0	4.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008438	92.50	95.00	0.0	0.5	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008439	95.00	97.50	0.0	0.4	0.0	2.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008440	97.50	100.00	0.0	0.3	0.0	1.4	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008441	100.00	102.50	0.0	1.0	0.0	2.5	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008442	102.50	105.00	0.0	1.3	0.0	2.9	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008443	105.00	107.50	0.0	0.3	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☐	☐	☑	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008444	107.50	110.00	0.0	0.3	0.0	4.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008445	110.00	112.50	0.0	0.3	0.0	3.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		■	■	■	■	■	■	■	■	☐	☑	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008446	112.50	115.00	0.0	0.4	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☑	☐	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008447	115.00	117.50	0.0	0.8	0.0	1.9	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008448	117.50	120.00	0.0	0.5	0.0	1.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008449	120.00	122.50	0.0	0.8	0.0	3.2	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008450	122.50	125.00	0.0	0.8	0.0	2.8	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008451	125.00	127.50	0.0	1.3	0.0	2.4	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008452	127.50	130.00	0.0	0.3	0.0	3.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008453	130.00	132.50	0.0	0.6	0.0	3.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008454	132.50	135.00	0.0	0.8	0.0	3.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008455	135.00	137.50	0.0	0.5	0.0	3.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008456	137.50	140.00	0.0	0.5	0.0	2.6	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008457	140.00	142.50	0.0	0.7	0.0	1.1	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008458	142.50	145.00	0.0	0.7	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008459	145.00	147.50	0.0	0.4	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008460	147.50	150.00	0.0	0.8	0.0	2.0	5.4				10YR 4/2	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/14/2001	KDD	8/11/2001	GH	BCS00008461	150.00	152.50	0.0	0.8	0.0	2.8	5.4				10YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008462	152.50	155.00	0.0	1.7	0.0	2.6	5.4				10YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008463	155.00	157.50	0.0	1.7	0.0	2.8	5.4				10YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008464	157.50	160.00	0.0	0.2	0.0	2.7	5.4				10YR 4/2	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008465	160.00	162.50	0.0	0.6	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008466	162.50	165.00	0.0	0.8	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008467	165.00	167.50	0.0	1.3	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008468	167.50	170.00	0.0	0.8	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008469	170.00	172.50	0.0	0.8	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008470	172.50	175.00	0.0	1.0	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						■	■	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008471	175.00	177.50	0.0	1.0	0.0	3.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008472	177.50	180.00	0.0	0.6	0.0	3.2	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008473	180.00	182.50	0.0	1.3	0.0	2.7	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008474	182.50	185.00	0.0	2.5	0.0	2.5	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008475	185.00	187.50	0.0	0.3	0.0	3.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008476	187.50	190.00	0.0	2.5	0.0	2.8	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008477	190.00	192.50	0.0	1.3	0.0	4.6	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008478	192.50	195.00	0.0	1.3	0.0	2.4	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008479	195.00	197.50	0.0	0.4	0.0	5.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008480	197.50	200.00	0.0	0.4	0.0	3.0	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008481	200.00	202.50	0.0	1.1	0.0	2.2	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008482	202.50	205.00	0.0	0.6	0.0	3.1	5.4				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008483	205.00	207.50	0.0	0.5	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008484	207.50	210.00	0.0	0.5	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☐	☑	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008485	210.00	212.50	0.0	1.3	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008486	212.50	215.00	0.0	1.3	0.0	2.2	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008487	215.00	217.50	0.0	1.3	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008488	217.50	220.00	0.0	1.3	0.0	4.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008489	220.00	222.50	0.0	1.5	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008490	222.50	225.00	0.0	1.5	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/14/2001	KDD	8/11/2001	GH	BCS00008491	225.00	227.50	0.0	1.5	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008492	227.50	230.00	0.0	1.5	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						■	■	■	■	■	■		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008493	230.00	232.50	0.0	1.5	0.0	2.6	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008494	232.50	235.00	0.0	1.5	0.0	3.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008495	235.00	237.50	0.0	1.5	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008496	237.50	240.00	0.0	1.5	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008497	240.00	242.50	0.0	1.0	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008498	242.50	245.00	0.0	1.0	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008499	245.00	247.50	0.0	1.0	0.0	2.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008500	247.50	250.00	0.0	1.0	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008501	250.00	252.50	0.0	1.0	0.0	3.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008502	252.50	255.00	0.0	1.0	0.0	3.1	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008503	255.00	257.50	0.0	1.0	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/14/2001	KDD	8/11/2001	GH	BCS00008504	257.50	260.00	0.0	1.0	0.0	2.9	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008505	260.00	262.50	0.0	0.8	0.0	1.8	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008506	262.50	265.00	0.0	0.8	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008507	265.00	267.50	0.0	0.8	0.0	2.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008508	267.50	270.00	0.0	0.8	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☐	☑	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008509	270.00	272.50	0.0	0.7	0.0	2.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008510	272.50	275.00	0.0	0.7	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008511	275.00	277.50	0.0	1.0	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008512	277.50	280.00	0.0	1.0	0.0	3.2	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008513	280.00	282.50	0.0	1.1	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008514	282.50	285.00	0.0	1.1	0.0	3.0	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008515	285.00	287.50	0.0	1.1	0.0	2.7	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008516	287.50	290.00	0.0	1.1	0.0	2.5	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008517	290.00	292.50	0.0	0.9	0.0	2.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008518	292.50	295.00	0.0	0.9	0.0	3.4	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008519	295.00	297.50	0.0	0.9	0.0	3.2	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/15/2001	KDD	8/11/2001	GH	BCS00008520	297.50	300.00	0.0	0.9	0.0	3.3	5.4				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/15/2001	KDD	8/11/2001	GH	BCS00008521	300.00	302.50	0.0	2.0	0.0	2.1	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008522	302.50	305.00	0.0	2.0	0.0	3.0	5.4				10YR 5/4	✓								✓			✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008523	305.00	307.50	0.0	2.0	0.0	3.0	5.4				10YR 5/4	✓								■	■		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008524	307.50	310.00	0.0	2.0	0.0	3.2	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008525	310.00	312.50	0.0	0.2	0.0	2.0	5.4				10YR 5/4		✓							✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008526	312.50	315.00	0.0	1.3	0.0	2.7	5.4				10YR 4/2	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008527	315.00	317.50	0.0	1.3	0.0	2.6	5.4				10YR 4/2	✓								✓		✓							✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008528	317.50	320.00	0.0	1.3	0.0	2.8	5.4				10YR 4/2	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008529	320.00	322.50	0.0	1.7	0.0	1.7	5.4				10YR 4/2	✓								✓		✓							✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008530	322.50	325.00	0.0	1.7	0.0	2.9	5.4				10YR 4/2	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008531	325.00	327.50	0.0	1.7	0.0	3.0	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008532	327.50	330.00	0.0	1.7	0.0	3.0	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008533	330.00	332.50	0.0	1.7	0.0	4.0	5.4				10YR 5/4	✓									✓		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008534	332.50	335.00	0.0	1.7	0.0	3.4	5.4				10YR 5/4	✓									✓		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008535	335.00	337.50	0.0	1.7	0.0	2.8	5.4				10YR 5/4	✓								✓			✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008536	337.50	340.00	0.0	1.7	0.0	4.0	5.4				10YR 5/4	✓								■	■		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008537	340.00	342.50	0.0	1.0	0.0	2.5	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008538	342.50	345.00	0.0	1.0	0.0	3.0	5.4				10YR 5/4	✓								✓		✓						✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008539	345.00	347.50	0.0	1.0	0.0	4.0	5.4				10YR 5/4	✓								■	■		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008540	347.50	350.00	0.0	1.0	0.0	2.9	5.4				10YR 5/4	✓								■	■		✓						✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008541	350.00	352.50	0.0	1.0	0.0	2.7	5.4				10YR 5/4	✓								■	■		✓					✓			✓					✓		100		
7/15/2001	KDD	8/11/2001	GH	BCS00008542	352.50	355.00	0.0	1.0	0.0	3.5	5.4				10YR 5/4		✓							■	■		✓					✓			✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008543	355.00	357.50	0.0	1.0	0.0	2.9	5.4				10YR 5/4	✓								✓			✓						✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008544	357.50	360.00	0.0	1.0	0.0	3.0	5.4				10YR 5/4	✓								✓		✓							✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008545	360.00	362.50	0.0	2.5	0.0	2.9	5.4				10YR 4/2	✓								✓		✓							✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008546	362.50	365.00	0.0	2.5	0.0	2.6	5.4				10YR 4/2		✓							✓			✓						✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008547	365.00	367.50	0.0	2.5	0.0	3.4	5.4				10YR 4/2		✓							✓		✓							✓		✓				✓			100		
7/15/2001	KDD	8/11/2001	GH	BCS00008548	367.50	370.00	0.0	2.5	0.0	3.1	5.4				10YR 4/2		✓							✓		✓							✓		✓				✓			100		
7/16/2001	KDD	8/11/2001	GH	BCS00008549	370.00	372.50	0.0	1.3	0.0	2.2	5.4				10YR 4/2			✓						■	■	■	■	■	■				✓		✓				■	■	■	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008550	372.50	375.00	0.0	0.6	0.0	2.7	5.4				10YR 5/4			✓						✓		✓						✓			✓					✓		100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/16/2001	KDD	9/14/2001	JSW	BCS00008551	375.00	377.50	0.0	0.4	0.0	3.2	5.4				10YR 5/4	☐	☑	☐						☑	☐	▪	▪	▪	▪		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008552	377.50	380.00	0.0	1.3	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	▪	▪	▪	▪		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008553	380.00	382.50	0.0	0.6	0.0	1.6	5.4				10YR 5/4	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008554	382.50	385.00	0.0	0.6	0.0	2.7	5.4				10YR 5/4	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008555	385.00	387.50	0.0	0.6	0.0	3.0	5.4				10YR 5/4	☐	☑	☐						☑	☐	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008556	387.50	390.00	0.0	0.6	0.0	2.8	5.4				10YR 5/4	☐	☑	☐						▪	▪	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008557	390.00	392.50	0.0	1.3	0.0	4.2	5.4				5YR 4/4	☐	☐	☑						▪	▪	☐	☑	☐	☐		☐	☑	☐	☐	☐	☑	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008558	392.50	395.00	0.0	1.3	0.8		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008559	395.00	397.50	0.0	0.7	1.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008560	397.50	400.00	0.0	0.7	1.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008561	400.00	402.50	0.0	0.6	1.2		5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008562	402.50	405.00	0.0	0.8	2.6		5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008563	405.00	407.50	0.0	0.8	1.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008564	407.50	410.00	0.0	1.3	2.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008565	410.00	412.50	0.0	1.3	2.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008566	412.50	415.00	0.0	0.2	0.3		5.4				10YR 5/4	☐	☐	☑						▪	▪	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008567	415.00	417.50	0.0	0.6	1.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008568	417.50	420.00	0.0	0.3	2.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008569	420.00	422.50	0.0	1.3	4.2		5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008570	422.50	425.00	0.0	1.3	5.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008571	425.00	427.50	0.0	1.0	2.1		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008572	427.50	430.00	0.0	1.0	2.1		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008573	430.00	432.50	0.0	1.3	5.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008574	432.50	435.00	0.0	2.5	6.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008575	435.00	437.50	0.0	2.5	4.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008576	437.50	440.00	0.0	2.5	5.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008577	440.00	442.50	0.0	1.3	2.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008578	442.50	445.00	0.0	2.5	5.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008579	445.00	447.50	0.0	2.5	2.9		5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008580	447.50	450.00	0.0	1.3	3.3		5.4				10YR 5/4	☐	☐	☑						☐	☑	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/16/2001	KDD	8/11/2001	GH	BCS00008581	450.00	452.50	0.0	2.5	6.9		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008582	452.50	455.00	0.0	2.5	4.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008583	455.00	457.50	0.0	2.5	3.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008584	457.50	460.00	0.0	1.3	3.9		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008585	460.00	462.50	0.0	2.5	4.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008586	462.50	465.00	0.0	1.3	2.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008587	465.00	467.50	0.0	1.3	4.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008588	467.50	470.00	0.0	1.3	3.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008589	470.00	472.50	0.0	2.5	6.1		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008590	472.50	475.00	0.0	2.5	6.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008591	475.00	477.50	0.0	1.3	5.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008592	477.50	480.00	0.0	0.8	2.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008593	480.00	482.50	0.0	1.3	3.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008594	482.50	485.00	0.0	1.3	2.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008595	485.00	487.50	0.0	2.5	1.9		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008596	487.50	490.00	0.0	2.5	2.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008597	490.00	492.50	0.0	1.3	1.0		5.4				5YR 5/6	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008598	492.50	495.00	0.0	2.5	2.6		5.4				5YR 5/6	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008599	495.00	497.50	0.0	2.5	10.9		5.4				5YR 5/6	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008600	497.50	500.00	0.0	1.3	4.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008601	500.00	502.50	0.0	1.3	6.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008602	502.50	505.00	0.0	2.5	7.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008603	505.00	507.50	0.0	2.5	7.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008604	507.50	510.00	0.0	2.5	8.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008605	510.00	512.50	0.0	1.3	3.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008606	512.50	515.00	0.0	2.5	2.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008607	515.00	517.50	0.0	2.5	3.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008608	517.50	520.00	0.0	2.5	4.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008609	520.00	522.50	0.0	2.5	6.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	9/14/2001	JSW	BCS00008610	522.50	525.00	0.0	2.5	4.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/16/2001	KDD	8/11/2001	GH	BCS00008611	525.00	527.50	0.0	1.3	3.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008612	527.50	530.00	0.0	1.3	2.2		5.4				10YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008613	530.00	532.50	0.0	2.5	3.8		5.4				10YR 4/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008614	532.50	535.00	0.0	1.3	2.8		5.4				10YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008615	535.00	537.50	0.0	2.5	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008616	537.50	540.00	0.0	1.3	3.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008617	540.00	542.50	0.0	1.3	2.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008618	542.50	545.00	0.0	2.5	11.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008619	545.00	547.50	0.0	2.5	11.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008620	547.50	550.00	0.0	2.5	8.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008621	550.00	552.50	0.0	2.5	8.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008622	552.50	555.00	0.0	1.3	4.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008623	555.00	557.50	0.0	2.5	8.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008624	557.50	560.00	0.0	2.5	12.8		5.4				10YR 4/2	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008625	560.00	565.00	0.0	1.7	4.6		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008626	565.00	570.00	0.0	2.5	5.6		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008627	570.00	575.00	0.0	1.7	10.3		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008628	575.00	580.00	0.0	2.5	14.8		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008629	580.00	585.00	0.0	1.7	10.3		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008630	585.00	590.00	0.0	1.3	7.7		5.4				10YR 4/2	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008631	590.00	595.00	0.0	2.5	7.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008632	595.00	600.00	0.0	1.3	5.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008633	600.00	605.00	0.0	1.7	8.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008634	605.00	610.00	0.0	1.3	3.3		5.4				10YR 5/4	☐	☐	☑						▣	▣	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008635	610.00	615.00	0.0	2.5	3.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008636	615.00	620.00	0.0	1.7	2.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008637	620.00	625.00	0.0	1.0	2.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008638	625.00	630.00	0.0	2.5	8.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008639	630.00	635.00	0.0	1.3	6.7		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008640	635.00	640.00	0.0	2.5	5.6		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/16/2001	KDD	8/11/2001	GH	BCS00008641	640.00	645.00	0.0	1.7	4.9		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008642	645.00	650.00	0.0	2.5	7.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008643	650.00	655.00	0.0	2.5	5.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008644	655.00	660.00	0.0	2.5	5.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008645	660.00	665.00	0.0	1.7	5.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008646	665.00	670.00	0.0	2.5	8.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008647	670.00	675.00	0.0	1.7	6.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008648	675.00	680.00	0.0	2.5	6.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008649	680.00	685.00	0.0	2.5	10.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008650	685.00	690.00	0.0	2.5	4.8		5.4				10YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008651	690.00	695.00	0.0	1.7	1.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008652	695.00	700.00	0.0	1.7	4.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008653	700.00	705.00	0.0	1.7	4.6		5.4				10YR 5/4	☐	☐	☑						■	■	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008654	705.00	710.00	0.0	1.7	6.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008655	710.00	715.00	0.0	1.7	6.3		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/16/2001	KDD	8/11/2001	GH	BCS00008656	715.00	720.00	0.0	1.7	6.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008657	720.00	725.00	0.0	2.5	16.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008658	725.00	730.00	0.0	2.5	12.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008659	730.00	735.00	0.0	2.5	12.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008660	735.00	740.00	0.0	2.5	12.8		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008661	740.00	745.00	0.0	2.5	22.4		5.4				5YR 4/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008662	745.00	750.00	0.0	1.7	12.0		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008663	750.00	755.00	0.0	1.7	16.3		5.4				10YR 6/2	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008664	755.00	760.00	0.0	1.7	6.5		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008665	760.00	765.00	0.0	2.5	14.4		5.4				10YR 5/4	☐	☐	☑						■	■	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008666	765.00	770.00	0.0	1.7	12.5		5.4				5YR 3/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008667	770.00	775.00	0.0	1.7	9.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008668	775.00	780.00	0.0	2.5	12.8		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008669	780.00	785.00	0.0	2.5	14.4		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008670	785.00	790.00	0.0	1.7	18.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		

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

Borehole ID: **NC-EWDP-19IM2A** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 825 Start Date: 7/13/2001 End Date: 7/17/2001

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
7/17/2001	KDD	8/11/2001	GH	BCS00008671	790.00	795.00	0.0	2.5	24.0		5.4				10YR 5/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008672	795.00	800.00	0.0	1.7	12.5		5.4				5YR 4/4	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008673	800.00	805.00	0.0	1.7	13.6		5.4				10YR 5/4	☐	☐	☑						☐	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008674	805.00	810.00	0.0	2.5	30.4		5.4				5YR 4/4	☐	☐	☑						☐	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008675	810.00	815.00	0.0	1.7	15.2		5.4				10YR 5/4	☐	☐	☑						☑	☐	☐	☑	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008676	815.00	820.00	0.0	2.5	22.4		5.4				10YR 5/4	☐	☐	☑						☐	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
7/17/2001	KDD	8/11/2001	GH	BCS00008677	820.00	825.00	0.0	2.5	14.4		5.4				10YR 6/6	☐	☐	☑						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		