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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009401 | 0.00 | 2.50 | 0.0 | 1.0 | 0.0 | 4.5 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | | ✓ | ✓ | | | | | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009402 | 2.50 | 5.00 | 0.0 | 1.0 | 0.0 | 4.1 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009403 | 5.00 | 7.50 | 0.0 | 1.0 | 0.0 | 3.0 | 5.4 | | | | N/A | | | ✓ | | | | | | | | | | | | | | | | | | | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009404 | 7.50 | 10.00 | 0.0 | 1.0 | 0.0 | 1.5 | 5.4 | | | | N/A | | | ✓ | | | | | | | | | | | | | | | | | | | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009405 | 10.00 | 12.50 | 0.0 | 1.0 | 0.0 | 2.0 | 5.4 | | | | N/A | | | ✓ | | | | | | | | | | | | | | | | | | | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009406 | 12.50 | 15.00 | 0.0 | 1.0 | 0.0 | 1.4 | 5.4 | | | | N/A | | | ✓ | | | | | | | | | | | | | | | | | | | | | 100 | | |
| 7/19/2001 | PM | 8/25/2001 | KDD | BCS00009407 | 15.00 | 17.50 | 0.0 | 1.0 | 0.0 | 1.0 | 5.4 | | | | 5YR 5/4 | | ✓ | | | | | | | | | ✓ | | | | | | ✓ | | | ✓ | | | | 100 | | |
| 7/19/2001 | PM | 8/25/2001 | KDD | BCS00009408 | 17.50 | 20.00 | 0.0 | 1.0 | 0.0 | 2.5 | 5.4 | | | | 5YR 5/4 | | ✓ | | | | | | | | | ✓ | | | | | | ✓ | | | ✓ | | | | 100 | | |
| 7/19/2001 | PM | 8/25/2001 | KDD | BCS00009409 | 20.00 | 22.50 | 0.0 | 1.0 | 0.0 | 1.3 | 5.4 | | | | 5YR 5/4 | | ✓ | | | | | | | | | ✓ | | | | | | | ✓ | | ✓ | | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009410 | 22.50 | 25.00 | 0.0 | 1.0 | 0.0 | 1.4 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009411 | 25.00 | 27.50 | 0.0 | 0.6 | 0.0 | 2.1 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009412 | 27.50 | 30.00 | 0.0 | 0.6 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009413 | 30.00 | 32.50 | 0.0 | 0.6 | 0.0 | 4.0 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009414 | 32.50 | 35.00 | 0.0 | 0.6 | 0.0 | 1.5 | 5.4 | | | | 5YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009415 | 35.00 | 37.50 | 0.0 | 0.6 | 0.0 | 1.0 | 5.4 | | | | 5YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009416 | 37.50 | 40.00 | 0.0 | 0.6 | 0.0 | 2.6 | 5.4 | | | | 5YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009417 | 40.00 | 42.50 | 0.0 | 1.1 | 0.0 | 2.1 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009418 | 42.50 | 45.00 | 0.0 | 1.1 | 0.0 | 1.0 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009419 | 45.00 | 47.50 | 0.0 | 1.1 | 0.0 | 1.1 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009420 | 47.50 | 50.00 | 0.0 | 1.1 | 0.0 | 2.0 | 5.4 | | | | 5YR 4/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | | ✓ | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009421 | 50.00 | 52.50 | 0.0 | 1.1 | 0.0 | 2.3 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009422 | 52.50 | 55.00 | 0.0 | 1.1 | 0.0 | 1.4 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009423 | 55.00 | 57.50 | 0.0 | 1.1 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009424 | 57.50 | 60.00 | 0.0 | 1.1 | 0.0 | 1.0 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | ✓ | | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009425 | 60.00 | 62.50 | 0.0 | 1.1 | 0.0 | 1.0 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009426 | 62.50 | 65.00 | 0.0 | 1.1 | 0.0 | 1.2 | 5.4 | | | | 5YR 4/1 | ✓ | | | | | | | | ✓ | | ✓ | | | | | ✓ | | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009427 | 65.00 | 67.50 | 0.0 | 1.1 | 0.0 | 2.5 | 5.4 | | | | 5YR 4/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009428 | 67.50 | 70.00 | 0.0 | 1.1 | 0.0 | 2.7 | 5.4 | | | | 5YR 4/1 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009429 | 70.00 | 72.50 | 0.0 | 1.1 | 0.0 | 2.5 | 5.4 | | | | 10YR 4/2 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009430 | 72.50 | 75.00 | 0.0 | 1.1 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ✓ | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | ✓ | | | | ✓ | | | 100 | | |

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Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009431 | 75.00 | 77.50 | 0.0 | 1.1 | 0.0 | 1.8 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009432 | 77.50 | 80.00 | 0.0 | 1.1 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009433 | 80.00 | 82.50 | 0.0 | 0.9 | 0.0 | 1.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009434 | 82.50 | 85.00 | 0.0 | 0.9 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009435 | 85.00 | 87.50 | 0.0 | 0.9 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009436 | 87.50 | 90.00 | 0.0 | 0.9 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009437 | 90.00 | 92.50 | 0.0 | 0.9 | 0.0 | 1.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009438 | 92.50 | 95.00 | 0.0 | 0.9 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009439 | 95.00 | 97.50 | 0.0 | 0.9 | 0.0 | 2.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009440 | 97.50 | 100.00 | 0.0 | 0.9 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009441 | 100.00 | 102.50 | 0.0 | 0.8 | 0.0 | 1.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009442 | 102.50 | 105.00 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009443 | 105.00 | 107.50 | 0.0 | 0.8 | 0.0 | 1.7 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009444 | 107.50 | 110.00 | 0.0 | 0.8 | 0.0 | 3.0 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009445 | 110.00 | 112.50 | 0.0 | 0.8 | 0.0 | 3.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009446 | 112.50 | 115.00 | 0.0 | 0.8 | 0.0 | 1.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009447 | 115.00 | 117.50 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009448 | 117.50 | 120.00 | 0.0 | 0.8 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009449 | 120.00 | 122.50 | 0.0 | 0.5 | 0.0 | 1.0 | 5.4 | | | | 5YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/11/2001 | GH | BCS00009450 | 122.50 | 125.00 | 0.0 | 0.5 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009451 | 125.00 | 127.50 | 0.0 | 0.5 | 0.0 | 2.7 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009452 | 127.50 | 130.00 | 0.0 | 0.5 | 0.0 | 2.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009453 | 130.00 | 132.50 | 0.0 | 0.5 | 0.0 | 1.5 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009454 | 132.50 | 135.00 | 0.0 | 0.5 | 0.0 | 2.0 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009455 | 135.00 | 137.50 | 0.0 | 0.5 | 0.0 | 2.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009456 | 137.50 | 140.00 | 0.0 | 0.5 | 0.0 | 2.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009457 | 140.00 | 142.50 | 0.0 | 0.5 | 0.0 | 1.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009458 | 142.50 | 145.00 | 0.0 | 0.5 | 0.0 | 1.3 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009459 | 145.00 | 147.50 | 0.0 | 0.5 | 0.0 | 2.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009460 | 147.50 | 150.00 | 0.0 | 0.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009461 | 150.00 | 152.50 | 0.0 | 0.5 | 0.0 | 2.5 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009462 | 152.50 | 155.00 | 0.0 | 0.5 | 0.0 | 2.3 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009463 | 155.00 | 157.50 | 0.0 | 0.5 | 0.0 | 3.0 | 5.4 | | | | 5YR 3/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009464 | 157.50 | 160.00 | 0.0 | 0.5 | 0.0 | 2.9 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009465 | 160.00 | 162.50 | 0.0 | 0.7 | 0.0 | 2.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009466 | 162.50 | 165.00 | 0.0 | 0.7 | 0.0 | 2.3 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009467 | 165.00 | 167.50 | 0.0 | 0.7 | 0.0 | 2.3 | 5.4 | | | | 5YR 5/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009468 | 167.50 | 170.00 | 0.0 | 0.7 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009469 | 170.00 | 172.50 | 0.0 | 0.7 | 0.0 | 1.8 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009470 | 172.50 | 175.00 | 0.0 | 0.7 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009471 | 175.00 | 177.50 | 0.0 | 0.7 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009472 | 177.50 | 180.00 | 0.0 | 0.7 | 0.0 | 2.3 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009473 | 180.00 | 182.50 | 0.0 | 0.7 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009474 | 182.50 | 185.00 | 0.0 | 0.7 | 0.0 | 1.9 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009475 | 185.00 | 187.50 | 0.0 | 0.7 | 0.0 | 1.1 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009476 | 187.50 | 190.00 | 0.0 | 0.7 | 0.0 | 1.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009477 | 190.00 | 192.50 | 0.0 | 0.7 | 0.0 | 1.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009478 | 192.50 | 195.00 | 0.0 | 0.7 | 0.0 | 1.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009479 | 195.00 | 197.50 | 0.0 | 0.7 | 0.0 | 2.8 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009480 | 197.50 | 200.00 | 0.0 | 0.7 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009481 | 200.00 | 202.50 | 0.0 | 1.1 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009482 | 202.50 | 205.00 | 0.0 | 1.1 | 0.0 | 2.7 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009483 | 205.00 | 207.50 | 0.0 | 1.1 | 0.0 | 2.5 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009484 | 207.50 | 210.00 | 0.0 | 1.1 | 0.0 | 2.6 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009485 | 210.00 | 212.50 | 0.0 | 1.1 | 0.0 | 2.1 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009486 | 212.50 | 215.00 | 0.0 | 1.1 | 0.0 | 2.7 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009487 | 215.00 | 217.50 | 0.0 | 1.1 | 0.0 | 2.7 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009488 | 217.50 | 220.00 | 0.0 | 1.1 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009489 | 220.00 | 222.50 | 0.0 | 1.3 | 0.0 | 1.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009490 | 222.50 | 225.00 | 0.0 | 1.3 | 0.0 | 2.7 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009491 | 225.00 | 227.50 | 0.0 | 1.3 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009492 | 227.50 | 230.00 | 0.0 | 1.3 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009493 | 230.00 | 232.50 | 0.0 | 1.3 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009494 | 232.50 | 235.00 | 0.0 | 1.3 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009495 | 235.00 | 237.50 | 0.0 | 1.3 | 0.0 | 2.4 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009496 | 237.50 | 240.00 | 0.0 | 1.3 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009497 | 240.00 | 242.50 | 0.0 | 0.8 | 0.0 | 1.8 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009498 | 242.50 | 245.00 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009500 | 245.00 | 247.50 | 0.0 | 0.8 | 0.0 | 3.1 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009501 | 247.50 | 250.00 | 0.0 | 0.8 | 0.0 | 2.8 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009502 | 250.00 | 252.50 | 0.0 | 0.8 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009503 | 252.50 | 255.00 | 0.0 | 0.8 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009504 | 255.00 | 257.50 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/19/2001 | PM | 8/12/2001 | GH | BCS00009505 | 257.50 | 260.00 | 0.0 | 0.8 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00012371 | 260.00 | 262.50 | 0.0 | 1.2 | 0.0 | 1.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009506 | 262.50 | 265.00 | 0.0 | 1.2 | 0.0 | 2.0 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009507 | 265.00 | 267.50 | 0.0 | 1.2 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009508 | 267.50 | 270.00 | 0.0 | 1.2 | 0.0 | 2.5 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009509 | 270.00 | 272.50 | 0.0 | 1.2 | 0.0 | 2.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009510 | 272.50 | 275.00 | 0.0 | 1.2 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009511 | 275.00 | 277.50 | 0.0 | 1.2 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009512 | 277.50 | 280.00 | 0.0 | 1.2 | 0.0 | 3.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009513 | 280.00 | 282.50 | 0.0 | 0.8 | 0.0 | 1.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009514 | 282.50 | 285.00 | 0.0 | 0.8 | 0.0 | 2.3 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009515 | 285.00 | 287.50 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009516 | 287.50 | 290.00 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009517 | 290.00 | 292.50 | 0.0 | 0.8 | 0.0 | 2.3 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009518 | 292.50 | 295.00 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009519 | 295.00 | 297.50 | 0.0 | 0.8 | 0.0 | 2.6 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009520 | 297.50 | 300.00 | 0.0 | 0.8 | 0.0 | 2.8 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009521 | 300.00 | 302.50 | 0.0 | 0.6 | 0.0 | 1.3 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009522 | 302.50 | 305.00 | 0.0 | 0.6 | 0.0 | 2.0 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009523 | 305.00 | 307.50 | 0.0 | 0.6 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009524 | 307.50 | 310.00 | 0.0 | 0.6 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009525 | 310.00 | 312.50 | 0.0 | 0.6 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009526 | 312.50 | 315.00 | 0.0 | 0.6 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009527 | 315.00 | 317.50 | 0.0 | 0.6 | 0.0 | 2.7 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009528 | 317.50 | 320.00 | 0.0 | 0.6 | 0.0 | 2.2 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009529 | 320.00 | 322.50 | 0.0 | 0.8 | 0.0 | 1.1 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009530 | 322.50 | 325.00 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009531 | 325.00 | 327.50 | 0.0 | 0.8 | 0.0 | 4.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009532 | 327.50 | 330.00 | 0.0 | 0.8 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009533 | 330.00 | 332.50 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009534 | 332.50 | 335.00 | 0.0 | 0.8 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009535 | 335.00 | 337.50 | 0.0 | 0.8 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009536 | 337.50 | 340.00 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009537 | 340.00 | 342.50 | 0.0 | 0.8 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009538 | 342.50 | 345.00 | 0.0 | 0.8 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009539 | 345.00 | 347.50 | 0.0 | 0.8 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009540 | 347.50 | 350.00 | 0.0 | 0.8 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009541 | 350.00 | 352.50 | 0.0 | 0.8 | 0.0 | 2.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009542 | 352.50 | 355.00 | 0.0 | 0.8 | 0.0 | 2.3 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009543 | 355.00 | 357.50 | 0.0 | 0.8 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009544 | 357.50 | 360.00 | 0.0 | 0.8 | 0.0 | 3.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009545 | 360.00 | 362.50 | 0.0 | 1.5 | 0.0 | 1.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009546 | 362.50 | 365.00 | 0.0 | 1.5 | 0.0 | 2.6 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009547 | 365.00 | 367.50 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009548 | 367.50 | 370.00 | 0.0 | 1.5 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009549 | 370.00 | 372.50 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009550 | 372.50 | 375.00 | 0.0 | 1.5 | 0.0 | 2.9 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009551 | 375.00 | 377.50 | 0.0 | 1.5 | 0.0 | 3.4 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009552 | 377.50 | 380.00 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009553 | 380.00 | 382.50 | 0.0 | 1.5 | 0.0 | 2.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009554 | 382.50 | 385.00 | 0.0 | 1.5 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009555 | 385.00 | 387.50 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009556 | 387.50 | 390.00 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009557 | 390.00 | 392.50 | 0.0 | 1.5 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009558 | 392.50 | 395.00 | 0.0 | 1.5 | 0.0 | 2.6 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009559 | 395.00 | 397.50 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009560 | 397.50 | 400.00 | 0.0 | 1.5 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009561 | 400.00 | 402.50 | 0.0 | 1.5 | 0.0 | 1.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009562 | 402.50 | 405.00 | 0.0 | 1.5 | 0.0 | 3.1 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009563 | 405.00 | 407.50 | 0.0 | 1.5 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009564 | 407.50 | 410.00 | 0.0 | 1.5 | 0.0 | 3.1 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009565 | 410.00 | 412.50 | 0.0 | 1.5 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009566 | 412.50 | 415.00 | 0.0 | 1.5 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009567 | 415.00 | 417.50 | 0.0 | 1.5 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009568 | 417.50 | 420.00 | 0.0 | 1.5 | 0.0 | 3.3 | 5.4 | | | | 10YR 6/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009569 | 420.00 | 422.50 | 0.0 | 1.4 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009570 | 422.50 | 425.00 | 0.0 | 1.4 | 0.0 | 2.6 | 5.4 | | | | 10YR 4/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009571 | 425.00 | 427.50 | 0.0 | 1.4 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009572 | 427.50 | 430.00 | 0.0 | 1.4 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009573 | 430.00 | 432.50 | 0.0 | 1.4 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009574 | 432.50 | 435.00 | 0.0 | 1.4 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | PM | 8/12/2001 | GH | BCS00009575 | 435.00 | 437.50 | 0.0 | 1.4 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009576 | 437.50 | 440.00 | 0.0 | 1.4 | 0.0 | 3.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009577 | 440.00 | 442.50 | 0.0 | 2.0 | 0.0 | 1.4 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009578 | 442.50 | 445.00 | 0.0 | 2.0 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009579 | 445.00 | 447.50 | 0.0 | 2.0 | 0.0 | 2.9 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009580 | 447.50 | 450.00 | 0.0 | 2.0 | 0.0 | 3.1 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 | Sand | Silt | Clay | Fines (Silt plus Clay) | Grading: Well Graded | Grading: Poorly Graded | Estimated Plasticity: None | Low | Moderate | High | USCS Group Symbol | Gravel/Sand GrainShape: Angular | Subangular | Subrounded | Rounded | Cementation: None | Weak | Moderate | Strong | HCL Reaction: None | Weak | Strong | Major Rock Type (%): Volcanics | Carbonates | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009581 | 450.00 | 452.50 | 0.0 | 2.0 | 0.0 | 2.6 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009582 | 452.50 | 455.00 | 0.0 | 2.0 | 0.0 | 2.8 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009583 | 455.00 | 457.50 | 0.0 | 2.0 | 0.0 | 2.9 | 5.4 | | | | 10YR 6/2 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009584 | 457.50 | 460.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009585 | 460.00 | 462.50 | 0.0 | 1.4 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009586 | 462.50 | 465.00 | 0.0 | 1.4 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009587 | 465.00 | 467.50 | 0.0 | 1.4 | 0.0 | 1.0 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009588 | 467.50 | 470.00 | 0.0 | 1.4 | 0.0 | 2.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009589 | 470.00 | 472.50 | 0.0 | 1.4 | 0.0 | 2.1 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009590 | 472.50 | 475.00 | 0.0 | 1.4 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009591 | 475.00 | 477.50 | 0.0 | 1.4 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009592 | 477.50 | 480.00 | 0.0 | 1.4 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009593 | 480.00 | 482.50 | 0.0 | 2.0 | 0.0 | 2.2 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009594 | 482.50 | 485.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009595 | 485.00 | 487.50 | 0.0 | 2.0 | 0.0 | 3.5 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009596 | 487.50 | 490.00 | 0.0 | 2.0 | 0.0 | 3.1 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009597 | 490.00 | 492.50 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009598 | 492.50 | 495.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009599 | 495.00 | 497.50 | 0.0 | 2.0 | 0.0 | 3.8 | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009600 | 497.50 | 500.00 | 0.0 | 2.0 | 0.0 | 3.6 | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009601 | 500.00 | 502.50 | 0.0 | 2.0 | 0.0 | 2.4 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009602 | 502.50 | 505.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009603 | 505.00 | 507.50 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009604 | 507.50 | 510.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009605 | 510.00 | 512.50 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009606 | 512.50 | 515.00 | 0.0 | 2.0 | 0.0 | 3.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009607 | 515.00 | 517.50 | 0.0 | 2.0 | 0.0 | 3.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009608 | 517.50 | 520.00 | 0.0 | 2.0 | 0.0 | 3.8 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009609 | 520.00 | 522.50 | 0.0 | 2.2 | 0.0 | 2.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009610 | 522.50 | 525.00 | 0.0 | 2.2 | 0.0 | 3.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009611 | 525.00 | 527.50 | 0.0 | 2.2 | 0.0 | 3.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009612 | 527.50 | 530.00 | 0.0 | 2.2 | 0.0 | 3.4 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009613 | 530.00 | 532.50 | 0.0 | 2.2 | 0.0 | 3.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009614 | 532.50 | 535.00 | 0.0 | 2.2 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009615 | 535.00 | 537.50 | 0.0 | 2.2 | 0.0 | 2.8 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009616 | 537.50 | 540.00 | 0.0 | 2.2 | 0.0 | 3.2 | 5.4 | | | | 5YR 7/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009617 | 540.00 | 542.50 | 0.0 | 2.0 | 0.0 | 2.6 | 5.4 | | | | 5YR 6/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009618 | 542.50 | 545.00 | 0.0 | 2.0 | 0.0 | 2.6 | 5.4 | | | | 5YR 6/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009619 | 545.00 | 547.50 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 6/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009620 | 547.50 | 550.00 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 6/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009621 | 550.00 | 552.50 | 0.0 | 2.0 | 0.0 | 2.8 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009622 | 552.50 | 555.00 | 0.0 | 2.0 | 0.0 | 3.4 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009623 | 555.00 | 557.50 | 0.0 | 2.0 | 0.0 | 3.0 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009624 | 557.50 | 560.00 | 0.0 | 2.0 | 0.0 | 3.4 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009625 | 560.00 | 562.50 | 0.0 | 1.3 | 0.0 | 2.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009626 | 562.50 | 565.00 | 0.0 | 1.3 | 0.0 | 1.6 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009627 | 565.00 | 567.50 | 0.0 | 1.3 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009628 | 567.50 | 570.00 | 0.0 | 1.3 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009629 | 570.00 | 572.50 | 0.0 | 1.3 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009630 | 572.50 | 575.00 | 0.0 | 1.3 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009631 | 575.00 | 577.50 | 0.0 | 1.3 | 0.0 | 4.0 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009632 | 577.50 | 580.00 | 0.0 | 1.3 | 0.0 | 3.8 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009633 | 580.00 | 582.50 | 0.0 | 1.0 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009634 | 582.50 | 585.00 | 0.0 | 1.0 | 0.0 | 3.6 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009635 | 585.00 | 587.50 | 0.0 | 1.0 | 0.0 | 3.2 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/24/2001 | KDD | 8/12/2001 | GH | BCS00009636 | 587.50 | 590.00 | 0.0 | 1.0 | 0.0 | 2.8 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009637 | 590.00 | 592.50 | 0.0 | 0.6 | 0.0 | 2.7 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009638 | 592.50 | 595.00 | 0.0 | 0.6 | 0.0 | 2.5 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009639 | 595.00 | 597.50 | 0.0 | 0.6 | 0.0 | 3.0 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009640 | 597.50 | 600.00 | 0.0 | 0.6 | 0.0 | 1.9 | 5.4 | | | | 10YR 5/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 | Sand | Silt | Clay | Fines (Silt plus Clay) | Grading: Well Graded | Grading: Poorly Graded | Estimated Plasticity: None | Low | Moderate | High | USCS Group Symbol | Gravel/Sand GrainShape: Angular | Subangular | Subrounded | Rounded | Cementation: None | Weak | Moderate | Strong | HCL Reaction: None | Weak | Strong | Major Rock Type (%): Volcanics | Carbonates | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009641 | 600.00 | 602.50 | 0.0 | 0.4 | 0.0 | 1.0 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009642 | 602.50 | 605.00 | 0.0 | 0.4 | 0.0 | 2.3 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009643 | 605.00 | 607.50 | 0.0 | 0.4 | 0.0 | 3.9 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009644 | 607.50 | 610.00 | 0.0 | 0.4 | 0.0 | 3.0 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009645 | 610.00 | 612.50 | 0.0 | 0.4 | 0.0 | 1.2 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009646 | 612.50 | 615.00 | 0.0 | 0.9 | 0.0 | 2.8 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009647 | 615.00 | 617.50 | 0.0 | 0.9 | 0.0 | 3.5 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009648 | 617.50 | 620.00 | 0.0 | 0.9 | 0.0 | 2.2 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009649 | 620.00 | 622.50 | 0.0 | 0.3 | 0.0 | 2.5 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009650 | 622.50 | 625.00 | 0.0 | 0.3 | 0.0 | 1.3 | 5.4 | | | | 5YR 4/4 | ☑ | ☐ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009651-10SA-1136 | 625.00 | 627.50 | 0.8 | 0.3 | 0.0 | 1.6 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009652-10SA-1137 | 627.50 | 630.00 | 0.8 | 0.3 | 0.0 | 1.9 | 5.4 | | | | 5YR 4/4 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009653-10SA-1138 | 630.00 | 632.50 | 0.8 | 0.5 | 0.0 | 0.4 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009654-10SA-1139 | 632.50 | 635.00 | 0.8 | 0.5 | 0.0 | 0.6 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009655-10SA-1140 | 635.00 | 637.50 | 0.8 | 0.5 | 0.0 | 0.5 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009656-10SA-1141 | 637.50 | 640.00 | 0.8 | 0.5 | 0.0 | 3.6 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009657-10SA-1142 | 640.00 | 642.50 | 0.8 | 0.3 | 0.0 | 1.0 | 5.4 | | | | 5YR 6/4 | ☑ | ☐ | ☐ | | | | | | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009658-10SA-1143 | 642.50 | 645.00 | 0.8 | 0.3 | 0.0 | 1.9 | 5.4 | | | | 5YR 6/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009659-10SA-1144 | 645.00 | 647.50 | 0.8 | 0.3 | 0.0 | 4.0 | 5.4 | | | | 5YR 6/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/12/2001 | GH | BCS00009660-10SA-1145 | 647.50 | 650.00 | 0.8 | 0.3 | 0.0 | 1.8 | 5.4 | | | | 5YR 6/4 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009661-10SA-1146 | 650.00 | 652.50 | 0.8 | 0.5 | 0.0 | 2.4 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009662-10SA-1147 | 652.50 | 655.00 | 0.8 | 0.5 | 0.0 | 1.0 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009663-10SA-1148 | 655.00 | 657.50 | 0.8 | 0.5 | 0.0 | 0.7 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009664-10SA-1149 | 657.50 | 660.00 | 0.8 | 0.5 | 0.0 | 1.3 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009665-10SA-1150 | 660.00 | 662.50 | 0.8 | 0.3 | 0.0 | 2.1 | 5.4 | | | | 5YR 5/6 | ☐ | ☑ | ☐ | | | | | | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/25/2001 | KDD | 8/11/2001 | GH | BCS00009666-10SA-1151 | 662.50 | 665.00 | 0.8 | 0.3 | 0.0 | 0.2 | 5.4 | | | | 5YR 5/6 | ☑ | ☐ | ☐ | | | | | | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 7/26/2001 | KDD | 9/14/2001 | JSW | BCS00009667-10SA-1152 | 665.00 | 670.00 | 0.0 | 1.3 | 2.4 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ▣ | ▣ | ☑ | ☐ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009668-10SA-1153 | 670.00 | 675.00 | 0.0 | 1.7 | 10.6 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009669-10SA-1154 | 675.00 | 680.00 | 0.0 | 1.7 | 2.7 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ▣ | ▣ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009670-10SA-1155 | 680.00 | 685.00 | 0.0 | 1.7 | 2.9 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ▣ | ▣ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |

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

Borehole ID: **NC-EWDP-10SA** (Phase 3) Driller/Drilling Company: Brian Mikelson/Eklund Drilling Co. Drilling Method: Reverse Circulation Air Rotary Alluvium Depth (ft bgs): 0 to 750 Start Date: 7/18/2001 End Date: 7/26/2001 

| 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 (%) | | | | | 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) | 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 |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009671-10SA-1156 | 685.00 | 690.00 | 0.0 | 2.5 | 9.9 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009672-10SA-1157 | 690.00 | 695.00 | 0.0 | 1.7 | 5.6 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009673-10SA-1158 | 695.00 | 700.00 | 0.0 | 2.5 | 5.3 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009674-10SA-1159 | 700.00 | 705.00 | 0.0 | 2.5 | 6.9 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009675-10SA-1160 | 705.00 | 710.00 | 0.0 | 2.5 | 10.1 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009676-10SA-1161 | 710.00 | 715.00 | 0.0 | 2.5 | 7.2 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009677-10SA-1162 | 715.00 | 720.00 | 0.0 | 2.5 | 7.7 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009678-10SA-1163 | 720.00 | 725.00 | 0.0 | 2.5 | 5.3 | | 5.4 | | | | 5YR 5/4 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009679-10SA-1164 | 725.00 | 730.00 | 0.0 | 2.5 | 8.3 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009680-10SA-1165 | 730.00 | 735.00 | 0.0 | 2.5 | 7.5 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009681-10SA-1166 | 735.00 | 740.00 | 0.0 | 5.0 | 16.0 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009682-10SA-1167 | 740.00 | 745.00 | 0.0 | 2.5 | 5.1 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☑ | ☐ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |
| 8/22/2001 | KDD | 9/14/2001 | JSW | BCS00009683-10SA-1168 | 745.00 | 750.00 | 0.0 | 2.5 | 7.2 | | 5.4 | | | | 5YR 5/6 | ☐ | ☐ | ☑ | | | | | | ■ | ■ | ☐ | ☐ | ☑ | ☐ | | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | 100 | | |