Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

Key for Sample Number: SC = Sonic core; SCA = Sonic core duplicate interval; C = Drive core. Key for Sample Type: L = Logging; D = Density; F = Fill; LC = Lost core; R = Entire run; X = End of run (overlaps with next run).

Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/26/2004	DD/BW	10/27/2004	BW	1	D	22PC-460-460.5-SC	460.00	460.50			6.20	0.20	6.00	5.80																															
10/26/2004	DD/BW	10/27/2004	BW	1	L	22PC-460-460.5-SCA	460.00	460.50				0.82	6.40	5.58	5YR 4/6		✓		37	47	6	10	16			✓			✓		SC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	1	R	22PC-460-463.7-SC	460.00	463.70	0.80	3.70																																			
10/26/2004	DD/BW	10/27/2004	BW	1	D	22PC-460.5-461.3-SC	460.50	461.30			6.20	0.20	13.75	13.55																															
10/26/2004	DD/BW	10/27/2004	BW	1	L	22PC-460.5-461.1-SC	460.50	461.10				0.81	9.65	8.84	10YR 4/3		✓		46	40	4	10	14		✓			✓			GP-GC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	1	L	22PC-461.1-461.8-SC	461.10	461.80				0.85	6.75	5.90	5YR 4/6		✓		52	36	5	7	12	✓				✓			GW-GC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	1	D	22PC-461.3-462-SC	461.30	462.00			6.20	0.20	11.30	11.10																															
10/26/2004	DD/BW	10/27/2004	BW	1	LX	22PC-461.8-463.7-SC	461.80	463.70				0.85	9.40	8.55	10YR 4/3		✓		44	36	6	14	20			✓			✓		GC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	1	D	22PC-462-462.9-SC	462.00	462.90			6.20	0.20	13.95	13.75																															
10/26/2004	DD/BW	10/27/2004	BW	1	D	22PC-462.9-463.7-SC	462.90	463.70			6.20	0.20	12.05	11.85																															
10/26/2004	DD/BW	10/27/2004	BW	2	D	22PC-463.7-464.9-SC	463.70	464.90			6.20	0.20	12.55	12.35																															
10/26/2004	DD/BW	10/27/2004	BW	2	R	22PC-463.7-471.4-SC	463.70	471.40	1.70	7.70																																			
10/26/2004	DD/BW	10/27/2004	BW	2	LX	22PC-463.7-464.2-SC	463.70	464.20				0.82	4.75	3.93	5YR 5/6		✓		13	61	8	18	26			✓				✓	SC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	2	L	22PC-464.2-466.3-SC	464.20	466.30				0.86	10.85	9.99	5YR 6/4		✓		59	32	3	6	9	✓				✓			GW-GC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	2	D	22PC-464.9-466.5-SC	464.90	466.50			6.20	0.20	18.85	18.65																															
10/26/2004	DD/BW	10/27/2004	BW	2	L	22PC-466.3-468.1-SC	466.30	468.10				0.81	9.95	9.14	5YR 6/4		✓		64	29	2	5	7	✓				✓			GW-GC		✓			✓				✓			100		
10/26/2004	DD/BW	10/27/2004	BW	2	D	22PC-466.5-468.2-SC	466.50	468.20			6.20	0.20	20.20	20.00																															
10/26/2004	DD/BW	10/27/2004	BW	2	L	22PC-468.1-469.1-SC	468.10	469.10				0.82	10.50	9.68	5YR 6/4		✓		24	54	7	15	22			✓			✓		SC		✓			✓				✓			100		

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/26/2004	DD/BW	10/27/2004	BW	2	D	22PC-468.2-469.8-SC	468.20	469.80			6.20	0.20	18.05	17.85		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	2	LX	22PC-469.1-471.4-SC	469.10	471.40				0.84	9.75	8.91	5YR 5/4	☐	☑	☐	41	44	6	9	15	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	2	D	22PC-469.8-471.4-SC	469.80	471.40			6.20	0.20	19.40	19.20		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	R	22PC-471.4-481.8-SC	471.40	481.80	2.30	10.50						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-471.4-473.2-SC	471.40	473.20			6.20	0.20	24.35	24.15		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	LX	22PC-471.4-473.2-SCA	471.40	473.20				0.85	8.95	8.10	5YR 5/8	☐	☐	☑	22	66	4	8	12	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	3	L	22PC-473.2-474.5-SC	473.20	474.50				0.82	6.00	5.18	5YR 5/8	☐	☐	☑	43	43	4	10	14	☑	☐	☐	☐	☑	☐	☐	GW-GC/SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-473.2-475-SC	473.20	475.00			6.20	0.20	20.75	20.55		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	L	22PC-474.5-476.2-SC	474.50	476.20				0.83	10.75	9.92	5YR 5/8	☐	☐	☑	37	52	4	7	11	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-475-476.8-SC	475.00	476.80			6.20	0.20	17.45	17.25		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	LX	22PC-476.2-481.8-SC	476.20	481.80				0.81	14.15	13.34	5YR 4/6	☐	☐	☑	39	49	4	8	12	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-476.8-478.5-SC	476.80	478.50			6.20	0.20	18.30	18.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-478.5-480-SC	478.50	480.00			6.20	0.20	18.10	17.90		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	D	22PC-480-481.8-SC	480.00	481.80			6.20	0.20	20.30	20.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	3	LC	22PC-481.8-483.7-SC	481.80	483.70								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	4	LX	22PC-483.7-484.6-SC	483.70	484.60				0.85	6.00	5.15	10YR 4/2	☐	☐	☑	59	33	2	6	8	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	4	R	22PC-483.7-492.1-SC	483.70	492.10	1.10	8.10						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	4	D	22PC-483.7-485.4-SC	483.70	485.40			6.20	0.20	20.35	20.15		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

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Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/26/2004	DD/BW	10/27/2004	BW	4	L	22PC-484.6-488.8-SC	484.60	488.80				0.85	11.30	10.45	5YR 4/6	☐	☐	☑	42	46	4	8	12	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/27/2004	BW	4	D	22PC-485.4-486.9-SC	485.40	486.90			6.20	0.20	19.05	18.85		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/27/2004	BW	4	D	22PC-486.9-488.5-SC	486.90	488.50			6.20	0.20	19.20	19.00		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	4	D	22PC-488.5-490-SC	488.50	490.00			6.20	0.20	17.90	17.70		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	4	LX	22PC-488.8-491.8-SC	488.80	491.80				0.82	8.90	8.08	5YR 4/6	☐	☐	☑	31	48	6	15	21	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/29/2004	BW	4	D	22PC-490-491.8-SC	490.00	491.80			6.20	0.20	19.75	19.55		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	4	LC	22PC-491.8-492.1-SC	491.80	492.10								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐	SW	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	5	R	22PC-492.1-494.2-SC	492.10	494.20	1.00	2.10						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	5	D	22PC-492.1-492.7-SC	492.10	492.70			6.20	0.20	8.25	8.05		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/26/2004	DD/BW	10/29/2004	BW	5	L	22PC-492.1-493.8-SC	492.10	493.80				0.81	7.25	6.44	5YR 4/6	☐	☐	☑	52	38	4	6	10	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/29/2004	BW	5	D	22PC-492.7-494.2-SC	492.70	494.20			6.20	0.20	18.60	18.40		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	BW	10/29/2004	BW	6	LX	22PC-493.8-494.6-SC	493.80	494.60				0.86	9.35	8.49	10YR 6/3	☐	☐	☑	38	46	6	10	16	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/26/2004	DD/BW	10/29/2004	BW	5	LX	22PC-493.8-494.2-SC	493.80	494.20								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	BW	10/29/2004	BW	6	R	22PC-494.2-504.2-SC	494.20	504.20	1.20	10.00						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	BW	10/29/2004	BW	6	D	22PC-494.2-494.6-SC	494.20	494.60			6.20	0.20	4.55	4.35		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	BW	10/29/2004	BW	6	L	22PC-494.6-497.2-SC	494.60	497.20				0.82	10.00	9.18	5YR 6/6	☐	☐	☑	49	42	3	6	9	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	6	D	22PC-494.6-496.3-SC	494.60	496.30			6.20	0.20	23.50	23.30		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	BW	10/29/2004	BW	6	D	22PC-496.3-497.7-SC	496.30	497.70			6.20	0.20	18.00	17.80		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/27/2004	BW	10/29/2004	BW	6	L	22PC-497.2-499.6-SC	497.20	499.60				0.81	12.00	11.19	5YR 6/6	☐	☐	☑	31	55	5	9	14	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	6	D	22PC-497.7-499.3-SC	497.70	499.30			6.20	0.20	20.70	20.50		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	6	D	22PC-499.3-500.9-SC	499.30	500.90			6.20	0.20	18.95	18.75		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	6	L	22PC-499.6-501.4-SC	499.60	501.40				0.85	9.00	8.15	5YR 6/6	☐	☐	☑	47	40	5	8	13	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	6	D	22PC-500.9-502.5-SC	500.90	502.50			6.20	0.20	16.80	16.60		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	6	LX	22PC-501.4-504.2-SC	501.40	504.20				0.82	12.90	12.08	7.5YR 5/4	☐	☐	☑	51	29	7	13	20	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	6	D	22PC-502.5-504.2-SC	502.50	504.20			6.20	0.20	18.10	17.90		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	7	LX	22PC-504.2-505.0-SC	504.20	505.00				0.82	9.55	8.73	2.5YR 6/8	☐	☐	☑	45	45	3	7	10	☑	☐	☐	☐	☑	☐	☐	GW-GC/SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	7	R	22PC-504.2-509.1-SC	504.20	509.10	1.40	4.90						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	7	D	22PC-504.2-505.8-SC	504.20	505.80			6.20	0.20	19.50	19.30		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	7	LX	22PC-505.0-509.1-SC	505.00	509.10				0.81	11.35	10.54	5YR 5/6	☐	☐	☑	36	54	3	7	10	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	BW	10/29/2004	BW	7	D	22PC-505.8-507.4-SC	505.80	507.40			6.20	0.20	21.30	21.10		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	BW	10/29/2004	BW	7	D	22PC-507.4-509.1-SC	507.40	509.10			6.20	0.20	18.20	18.00		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	EJH	10/29/2004	BW	8	LX	22PC-509.1-509.4-SC	509.10	509.40				0.86	4.05	3.19	7.5YR 5/6	☐	☐	☑	27	62	4	7	11	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-509.1-510.0-SC	509.10	510.00			6.20	0.20	0.85	0.65		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	EJH	10/29/2004	BW	8	R	22PC-509.1-519.3-SC	509.10	519.30	3.20	10.00						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/27/2004	EJH	10/29/2004	BW	8	L	22PC-509.4-513.5-SC	509.40	513.50				0.82	10.85	10.03	7.5YR 5/6	☐	☐	☑	33	59	3	5	8	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-510-511.5-SC	510.00	511.50			6.20	0.20	18.15	17.95		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

Key for Sample Number: SC = Sonic core; SCA = Sonic core duplicate interval; C = Drive core. Key for Sample Type: L = Logging; D = Density; F = Fill; LC = Lost core; R = Entire run; X = End of run (overlaps with next run).

Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-511.5-513.3-SC	511.50	513.30			6.20	0.20	19.80	19.60		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-513.3-515.3-SC	513.30	515.30			6.20	0.20	20.30	20.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	10/29/2004	BW	8	L	22PC-513.5-516.2-SC	513.50	516.20				0.83	10.95	10.12	5YR 6/6	☐	☐	☑	51	37	4	8	12	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-515.3-517.4-SC	515.30	517.40			6.20	0.20	22.40	22.20		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	10/29/2004	BW	8	LX	22PC-516.2-519.2-SC	516.20	519.20				0.82	5.85	5.03	5YR 6/6	☐	☐	☑	45	49	2	4	6	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	10/29/2004	BW	8	D	22PC-517.4-519.2-SC	517.40	519.20			6.20	0.20	17.80	17.60		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	10/29/2004	BW	8	LC	22PC-519.2-519.3-SC	519.20	519.30								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	10/29/2004	BW	9	R	22PC-519.3-526.5-SC	519.30	526.50	1.00	6.10						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	LC	22PC-519.3-520.4-SC	519.30	520.40								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	D	22PC-520.4-520.7-SC	520.40	520.70			6.20	0.20	2.80	2.60		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	LX	22PC-520.4-521.1-SC	520.40	521.10				0.82	7.45	6.63	7.5YR 6/6	☐	☐	☑	50	40	3	7	10	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	11/1/2004	BW	9	D	22PC-520.7-522.1-SC	520.70	522.10			6.20	0.20	17.50	17.30		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	L	22PC-521.1-521.8-SC	521.10	521.80				0.85	4.95	4.10	7.5YR 5/6	☐	☐	☑	32	62	2	4	6	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	11/1/2004	BW	9	L	22PC-521.8-522.7-SC	521.80	522.70				0.86	6.10	5.24	7.5YR 5/6	☐	☐	☑	65	26	3	6	9	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	11/1/2004	BW	9	D	22PC-522.1-523.5-SC	522.10	523.50			6.20	0.20	17.75	17.55		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	L	22PC-522.7-525.5-SC	522.70	525.50				0.82	8.70	7.88	5YR 6/6	☐	☐	☑	46	44	4	6	10	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/27/2004	EJH	11/1/2004	BW	9	D	22PC-523.5-525.1-SC	523.50	525.10			6.20	0.20	19.70	19.50		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/27/2004	EJH	11/1/2004	BW	9	D	22PC-525.1-526.5-SC	525.10	526.50			6.20	0.20	17.25	17.05		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/27/2004	EJH	11/1/2004	BW	9	LX	22PC-525.5-526.5-SC	525.50	526.50				0.87	6.30	5.43	5YR 5/6	☐	☐	☑	49	40	4	7	11	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	10	R	22PC-526.5-533.1-SC	526.50	533.10	2.20	6.60						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	10	D	22PC-526.5-528.2-SC	526.50	528.20			6.20	0.20	17.40	17.20		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	10	LX	22PC-526.5-529.8-SC	526.50	529.80				0.86	5.45	4.59	2.5YR 5/8	☐	☐	☑	39	44	7	10	17	☐	☐	☑	☐	☑	☐	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	10	D	22PC-528.2-529.8-SC	528.20	529.80			6.20	0.20	17.05	16.85		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	10	D	22PC-529.8-531.6-SC	529.80	531.60			6.20	0.20	19.50	19.30		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	10	L	22PC-529.8-531.3-SC	529.80	531.30				0.87	4.55	3.68	2.5YR 5/8	☐	☐	☑	42	41	7	10	17	☐	☐	☑	☐	☑	☐	☐	GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	10	LX	22PC-531.3-533.1-SC	531.30	533.10				0.83	5.75	4.92	2.5YR 5/8	☐	☐	☑	27	56	7	10	17	☐	☐	☑	☐	☑	☐	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	10	D	22PC-531.6-533.1-SC	531.60	533.10			6.20	0.20	16.75	16.55		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	11	LX	22PC-533.1-534.1-SCB	533.10	534.10				0.81	6.45	5.64	2.5YR 6/8	☐	☐	☑	42	41	7	10	17	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	11	R	22PC-533.1-534.1-SC	533.10	534.10	0.30	1.00						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	11	D	22PC-533.1-534.1-SCA	533.10	534.10			6.20	0.20	12.35	12.15		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	12	LX	22PC-534.1-536.6-SC	534.10	536.60				0.83	11.75	10.92	5YR 5/6	☐	☐	☑	31	52	7	10	17	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	12	R	22PC-534.1-544.2-SC	534.10	544.20	1.70	9.90						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	12	D	22PC-534.1-534.5-SC	534.10	534.50			6.20	0.20	4.65	4.45		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	12	D	22PC-534.5-536.2-SC	534.50	536.20			6.20	0.20	19.00	18.80		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	12	D	22PC-536.2-537.8-SC	536.20	537.80			6.20	0.20	19.10	18.90		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
10/28/2004	DD	11/1/2004	BW	12	L	22PC-536.6-537.8-SC	536.60	537.80				0.85	5.10	4.25	5YR 5/6	☐	☐	☑	53	35	4	8	12	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/28/2004	DD	11/1/2004	BW	12	D	22PC-537.8-539.2-SC	537.80	539.20			6.20	0.20	16.60	16.40																															
10/28/2004	DD	11/1/2004	BW	12	LX	22PC-537.8-544.0-SC	537.80	544.00				0.86	8.70	7.84	5YR 5/6			✓	36	50	4	10	14	✓				✓			SW-SC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	12	D	22PC-539.2-540.8-SC	539.20	540.80			6.20	0.20	18.25	18.05																															
10/28/2004	DD	11/1/2004	BW	12	D	22PC-540.8-542.4-SC	540.80	542.40			6.20	0.20	19.70	19.50																															
10/28/2004	DD	11/1/2004	BW	12	D	22PC-542.4-544.0-SC	542.40	544.00			6.20	0.20	18.20	18.00																															
10/28/2004	DD	11/1/2004	BW	12	LC	22PC-544.0-544.2-SC	544.00	544.20																																					
10/28/2004	DD	11/1/2004	BW	13	R	22PC-544.2-550.2-SC	544.20	550.20	1.20	6.00																																			
10/28/2004	DD	11/1/2004	BW	13	D	22PC-544.2-545.1-SC	544.20	545.10			6.20	0.20	9.70	9.50																															
10/28/2004	DD	11/1/2004	BW	13	LX	22PC-544.2-546.7-SC	544.20	546.70				0.82	7.30	6.48	5YR 5/6			✓	44	44	4	8	12	✓				✓			GW-GC/SW-SC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	13	D	22PC-545.1-546.7-SC	545.10	546.70			6.20	0.20	17.80	17.60																															
10/28/2004	DD	11/1/2004	BW	13	D	22PC-546.7-548.5-SC	546.70	548.50			6.20	0.20	18.60	18.40																															
10/28/2004	DD	11/1/2004	BW	13	L	22PC-546.7-547.5-SC	546.70	547.50				0.83	4.65	3.82	5YR 4/6			✓	19	66	5	10	15			✓		✓			SC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	13	L	22PC-547.5-549.5-SC	547.50	549.50				0.83	6.25	5.42	5YR 5/8			✓	55	34	4	7	11	✓			✓				GW-GC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	13	D	22PC-548.5-550.2-SC	548.50	550.20			6.20	0.20	18.75	18.55																															
10/28/2004	DD	11/1/2004	BW	13	LX	22PC-549.5-550.2-SC	549.50	550.20				0.82	3.40	2.58	5YR 4/6			✓	43	46	4	7	11	✓			✓				SW-SC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	14	D	22PC-550.2-551.8-SC	550.20	551.80			6.20	0.20	17.30	17.10																															
10/28/2004	DD	11/1/2004	BW	14	LX	22PC-550.2-552.8-SC	550.20	552.80				0.83	5.10	4.27	2.5YR 5/8			✓	70	24	2	4	6	✓			✓				GW-GC			✓			✓			✓			100		
10/28/2004	DD	11/1/2004	BW	14	R	22PC-550.2-560.2-SC	550.20	560.20	2.50	10.00																																			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/28/2004	DD	11/1/2004	BW	14	D	22PC-551.8-553.6-SC	551.80	553.60			6.20	0.20	18.15	17.95		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/28/2004	DD	11/1/2004	BW	14	L	22PC-552.8-554.5-SC	552.80	554.50				0.87	3.80	2.93	2.5YR 5/6	☐	☐	☑	49	38	5	8	13	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	14	D	22PC-553.6-555.3-SC	553.60	555.30			6.20	0.20	17.30	17.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/28/2004	DD	11/1/2004	BW	14	LX	22PC-554.5-560.2-SC	554.50	560.20				0.87	13.25	12.38	5YR 5/6	☐	☐	☑	56	37	2	5	7	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/28/2004	DD	11/1/2004	BW	14	D	22PC-555.3-556.8-SC	555.30	556.80			6.20	0.20	18.55	18.35		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/28/2004	DD	11/1/2004	BW	14	D	22PC-556.8-558.5-SC	556.80	558.50			6.20	0.20	18.20	18.00		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/28/2004	DD	11/1/2004	BW	14	D	22PC-558.5-560.2-SC	558.50	560.20			6.20	0.20	18.15	17.95		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	15	R	22PC-560.2-565.4-SC	560.20	565.40	1.70	5.20						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	15	LX	22PC-560.2-562.8-SC	560.20	562.80				0.83	4.20	3.37	2.5YR 5/8	☐	☐	☑	62	31	2	5	7	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/1/2004	BW	15	D	22PC-560.2-560.6-SC	560.20	560.60			6.20	0.20	4.75	4.55		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	15	D	22PC-560.6-562.2-SC	560.60	562.20			6.20	0.20	15.60	15.40		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	15	D	22PC-562.2-563.8-SC	562.20	563.80			6.20	0.20	15.85	15.65		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	15	LX	22PC-562.8-565.4-SC	562.80	565.40				0.86	5.65	4.79	2.5YR 5/8	☐	☐	☑	18	76	2	4	6	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/1/2004	BW	15	D	22PC-563.8-565.4-SC	563.80	565.40			6.20	0.20	16.45	16.25		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/2/2004	BW	16	R	22PC-565.4-568.1-SC	565.40	568.10	0.70	2.70						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	16	D	22PC-565.4-566.2-SC	565.40	566.20			6.20	0.20	8.25	8.05		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
10/29/2004	DD	11/1/2004	BW	16	LX	22PC-565.4-567.1-SC	565.40	567.10				0.83	3.70	2.87	5YR 5/8	☐	☐	☑	51	42	2	5	7	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	16	D	22PC-566.2-568.1-SC	566.20	568.10			6.20	0.20	16.60	16.40		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/29/2004	DD	11/2/2004	BW	16	LX	22PC-567.1-568.1-SC	567.10	568.10				0.87	4.70	3.83	2.5YR 5/8	☐	☐	☑	47	41	4	8	12	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	17	D	22PC-568.1-569.6-SC	568.10	569.60			6.20	0.20	16.20	16.00																															
10/29/2004	DD	11/2/2004	BW	17	LX	22PC-568.1-569.9-SC	568.10	569.90				0.82	8.95	8.13	5YR 5/8	☐	☐	☑	36	59	2	3	5	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	17	R	22PC-568.1-578.1-SC	568.10	578.10	2.00	10.00																																			
10/29/2004	DD	11/2/2004	BW	17	D	22PC-569.6-571.3-SC	569.60	571.30			6.20	0.20	16.75	16.55																															
10/29/2004	DD	11/2/2004	BW	17	L	22PC-569.9-571.3-SC	569.90	571.30				0.86	7.30	6.44	5YR 5/8	☐	☐	☑	66	24	3	7	10	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	17	LX	22PC-571.3-578.1-SC	571.30	578.10				0.83	9.70	8.87	5YR 5/8	☐	☐	☑	44	46	3	7	10	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	17	D	22PC-571.3-572.9-SC	571.30	572.90			6.20	0.20	14.95	14.75																															
10/29/2004	DD	11/2/2004	BW	17	D	22PC-572.9-574.7-SC	572.90	574.70			6.20	0.20	16.35	16.15																															
10/29/2004	DD	11/2/2004	BW	17	D	22PC-574.7-576.3-SC	574.70	576.30			6.20	0.20	16.05	15.85																															
10/29/2004	DD	11/2/2004	BW	17	D	22PC-576.3-578.1-SC	576.30	578.10			6.20	0.20	17.90	17.70																															
10/29/2004	DD	11/2/2004	BW	18	LX	22PC-578.1-578.6-SC	578.10	578.60				0.82	5.00	4.18	5YR 5/4	☐	☐	☑	52	43	2	3	5	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	18	R	22PC-578.1-585.3-SC	578.10	585.30	1.40	7.20																																			
10/29/2004	DD	11/2/2004	BW	18	D	22PC-578.1-578.8-SC	578.10	578.80			6.20	0.20	8.40	8.20																															
10/29/2004	DD	11/2/2004	BW	18	L	22PC-578.6-582.8-SC	578.60	582.80				0.82	11.65	10.83	5YR 5/6	☐	☐	☑	40	52	3	5	8	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	18	D	22PC-578.8-580.6-SC	578.80	580.60			6.20	0.20	20.70	20.50																															
10/29/2004	DD	11/2/2004	BW	18	D	22PC-580.6-581.9-SC	580.60	581.90			6.20	0.20	15.85	15.65																															
10/29/2004	DD	11/2/2004	BW	18	D	22PC-581.9-583.6-SC	581.90	583.60			6.20	0.20	19.30	19.10																															

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
10/29/2004	DD	11/2/2004	BW	18	LX	22PC-582.8-585.3-SC	582.80	585.30				0.86	6.05	5.19	5YR 5/6	☐	☐	☑	48	45	2	5	7	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
10/29/2004	DD	11/2/2004	BW	18	D	22PC-583.6-585.3-SC	583.60	585.30			6.20	0.20	17.20	17.00																															
11/1/2004	DD	11/2/2004	BW	19	R	22PC-585.3-595.0-SC	585.30	595.00	1.00	9.80																																			
11/1/2004	DD	11/2/2004	BW	19	D	22PC-585.3-586.8-SC	585.30	586.80			6.20	0.20	16.30	16.10																															
11/1/2004	DD	11/2/2004	BW	19	LX	22PC-585.3-586.2-SC	585.30	586.20				0.84	9.45	8.61	7.5YR 5/6	☐	☐	☑	45	48	3	4	7	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	19	L	22PC-586.2-587.0-SC	586.20	587.00				0.83	10.55	9.72	7.5YR 5/6	☐	☐	☑	28	62	4	6	10	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	19	D	22PC-586.8-588.4-SC	586.80	588.40			6.20	0.20	18.20	18.00																															
11/1/2004	DD	11/2/2004	BW	19	L	22PC-587.0-587.8-SC	587.00	587.80				0.82	9.00	8.18	7.5YR 5/4	☐	☐	☑	55	40	2	3	5	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	19	L	22PC-587.8-594.5-SC	587.80	594.50				0.83	9.60	8.77	7.5YR 5/6	☐	☐	☑	40	52	3	5	8	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	19	D	22PC-588.4-589.9-SC	588.40	589.90			6.20	0.20	19.30	19.10																															
11/1/2004	DD	11/2/2004	BW	19	D	22PC-589.9-591.6-SC	589.90	591.60			6.20	0.20	17.45	17.25																															
11/1/2004	DD	11/2/2004	BW	19	D	22PC-591.6-593.3-SC	591.60	593.30			6.20	0.20	16.75	16.55																															
11/1/2004	DD	11/2/2004	BW	19	D	22PC-593.3-595.0-SC	593.30	595.00			6.20	0.20	17.60	17.40																															
11/1/2004	DD	11/2/2004	BW	19	LX	22PC-594.5-595.0-SC	594.50	595.00				0.83	5.35	4.52	5YR 5/8	☐	☐	☑	52	43	2	3	5	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	20	LX	22PC-595.0-595.7-SC	595.00	595.70				0.82	2.40	1.58	7.5YR 5/4	☐	☐	☑	67	31	1	1	2	☑	☐	☐	☑	☐	☐	☐	GW	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/1/2004	DD	11/2/2004	BW	20	R	22PC-595.0-599.6-SC	595.00	599.60	0.90	4.60																																			
11/1/2004	DD	11/2/2004	BW	20	D	22PC-595.0-596.6-SC	595.00	596.60			6.20	0.20	19.15	18.95																															
11/1/2004	DD	11/2/2004	BW	20	L	22PC-595.7-597.3-SC	595.70	597.30				0.83	3.50	2.67	7.5YR 5/6	☐	☐	☑	37	53	3	7	10	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/1/2004	DD	11/2/2004	BW	20	D	22PC-596.6-598.2-SC	596.60	598.20			6.20	0.20	17.30	17.10																															
11/1/2004	DD	11/2/2004	BW	20	LX	22PC-597.3-599.6-SC	597.30	599.60				0.86	7.20	6.34	7.5YR 5/6			✓	45	47	3	5	8	✓			✓				SW-SC			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	20	D	22PC-598.2-599.6-SC	598.20	599.60			6.20	0.20	16.15	15.95																															
11/1/2004	DD	11/2/2004	BW	21	LX	22PC-599.6-600.3-SC	599.60	600.30				0.82	5.80	4.98	2.5YR 5/6			✓	38	58	1	3	4	✓			✓				SW			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	21	R	22PC-599.6-606.6-SC	599.60	606.60	1.20	7.00																																			
11/1/2004	DD	11/2/2004	BW	21	D	22PC-599.6-600.5-SC	599.60	600.50			6.20	0.20	11.50	11.30																															
11/1/2004	DD	11/2/2004	BW	21	L	22PC-600.3-601.9-SC	600.30	601.90				0.82	7.65	6.83	2.5YR 5/8			✓	40	54	2	4	6	✓				✓			SW-SC			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	21	D	22PC-600.5-602.0-SC	600.50	602.00			6.20	0.20	16.65	16.45																															
11/1/2004	DD	11/2/2004	BW	21	L	22PC-601.9-604.1-SC	601.90	604.10				0.82	6.85	6.03	2.5YR 6/8			✓	44	48	3	5	8	✓				✓			SW-SC			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	21	D	22PC-602.0-603.5-SC	602.00	603.50			6.20	0.20	17.00	16.80																															
11/1/2004	DD	11/2/2004	BW	21	D	22PC-603.5-604.9-SC	603.50	604.90			6.20	0.20	15.65	15.45																															
11/1/2004	DD	11/2/2004	BW	21	L	22PC-604.1-604.7-SC	604.10	604.70				0.83	8.35	7.52	.			✓	26	65	3	6	9	✓				✓			SW-SC			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	21	LX	22PC-604.7-606.3-SC	604.70	606.30				0.86	6.05	5.19	2.5YR 5/8			✓	45	48	2	5	7	✓				✓			SW-SC			✓			✓			✓			100		
11/1/2004	DD	11/2/2004	BW	21	D	22PC-604.9-606.3-SC	604.90	606.30			6.20	0.20	16.40	16.20																															
11/1/2004	DD	11/2/2004	BW	21	LC	22PC-606.3-606.6-SC	606.30	606.60																																					
11/1/2004	BW	11/2/2004	BW	22	D	22PC-606.6-607.9-SC	606.60	607.90			6.20	0.20	14.95	14.75																															
11/1/2004	BW	11/2/2004	BW	22	LX	22PC-606.6-609.3-SC	606.60	609.30				0.86	6.25	5.39	5YR 5/8			✓	51	45	1	3	4	✓			✓				GW			✓			✓			✓			100		
11/1/2004	BW	11/2/2004	BW	22	R	22PC-606.6-615.5-SC	606.60	615.50	1.60	8.80																																			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/1/2004	BW	11/2/2004	BW	22	D	22PC-607.9-609.3-SC	607.90	609.30			6.20	0.20	17.15	16.95																															
11/1/2004	BW	11/2/2004	BW	22	L	22PC-609.3-610.1-SC	609.30	610.10				0.86	10.95	10.09	5YR 5/8			✓	54	41	2	3	5	✓			✓				GW-GC			✓			✓		✓			100		
11/1/2004	BW	11/2/2004	BW	22	D	22PC-609.3-611.0-SC	609.30	611.00			6.20	0.20	19.35	19.15																															
11/1/2004	BW	11/2/2004	BW	22	L	22PC-610.1-611.8-SC	610.10	611.80				0.86	6.80	5.94	2.5YR 6/8			✓	52	43	2	3	5	✓			✓				GW-GC			✓			✓		✓			100		
11/1/2004	BW	11/2/2004	BW	22	D	22PC-611.0-612.6-SC	611.00	612.60			6.20	0.20	16.45	16.25																															
11/1/2004	BW	11/3/2004	BW	22	L	22PC-611.8-613.6-SC	611.80	613.60				0.82	6.40	5.58	5YR 5/8			✓	46	47	2	5	7	✓				✓			SW-SC			✓			✓			✓		100		
11/1/2004	BW	11/3/2004	BW	22	D	22PC-612.6-614.1-SC	612.60	614.10			6.20	0.20	18.90	18.70																															
11/1/2004	BW	11/3/2004	BW	22	LX	22PC-613.6-615.4-SC	613.60	615.40				0.86	6.90	6.04	5YR 6/8			✓	32	61	2	5	7	✓				✓			SW-SC			✓			✓			✓		100		
11/1/2004	BW	11/3/2004	BW	22	D	22PC-614.1-615.4-SC	614.10	615.40			6.20	0.20	15.70	15.50																															
11/1/2004	BW	11/3/2004	BW	22	LC	22PC-615.4-615.5-SC	615.40	615.50																																					
11/2/2004	DD	11/3/2004	BW	23	R	22PC-615.5-625.2-SC	615.50	625.20	1.60	8.20																																			
11/2/2004	DD	11/3/2004	BW	23	D	22PC-615.5-616.9-SC	615.50	616.90			6.20	0.20	14.85	14.65																															
11/2/2004	DD	11/3/2004	BW	23	LX	22PC-615.5-618.5-SC	615.50	618.50				0.81	8.00	7.19	5YR 5/8			✓	24	71	2	3	5	✓			✓				SW-SC			✓			✓			✓		100		
11/2/2004	DD	11/3/2004	BW	23	D	22PC-616.9-618.5-SC	616.90	618.50			6.20	0.20	15.10	14.90																															
11/2/2004	DD	11/3/2004	BW	23	L	22PC-618.5-620.0-SC	618.50	620.00				0.79	4.80	4.01	7.5YR 5/4			✓	33	64	1	2	3	✓			✓				SW			✓			✓			✓		100		
11/2/2004	DD	11/3/2004	BW	23	D	22PC-618.5-620.5-SC	618.50	620.50			6.20	0.20	23.95	23.75																															
11/2/2004	DD	11/3/2004	BW	23	L	22PC-620.0-621.1-SC	620.00	621.10				0.79	3.45	2.66	5YR 5/6			✓	18	77	2	3	5	✓			✓				SW-SC			✓				✓		✓		100		
11/2/2004	DD	11/3/2004	BW	23	D	22PC-620.5-622.1-SC	620.50	622.10			6.20	0.20	15.65	15.45																															

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/2/2004	DD	11/3/2004	BW	23	L	22PC-621.1-623.0-SC	621.10	623.00				0.80	7.55	6.75	5YR 5/6	☐	☐	☑	48	46	2	4	6	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/2/2004	DD	11/3/2004	BW	23	D	22PC-622.1-623.7-SC	622.10	623.70			6.20	0.20	16.10	15.90		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/2/2004	DD	11/3/2004	BW	23	LX	22PC-623.0-623.7-SC	623.00	623.70				0.83	5.60	4.77	7.5YR 5/6	☐	☐	☑	65	33	1	1	2	☑	☐	☐	☑	☐	☐	☐	GW	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/2/2004	DD	11/3/2004	BW	23	LC	22PC-623.7-625.2-SC	623.70	625.20								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	24	R	22PC-625.2-632.1-SC	625.20	632.10	0.80	6.70						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	BW	24	D	22PC-625.2-626.7-SC	625.20	626.70			4.70	0.10	7.55	7.45		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	BW	24	LX	22PC-625.2-629.1-SC	625.20	629.10				0.82	3.75	2.93	5YR 5/6	☐	☐	☑	38	46	6	10	16	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	24	D	22PC-626.7-628.4-SC	626.70	628.40			4.70	0.10	8.70	8.60		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	24	D	22PC-628.4-630.2-SC	628.40	630.20			4.70	0.10	8.95	8.85		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	24	L	22PC-629.1-629.7-SC	629.10	629.70				0.81	2.30	1.49	5YR 6/6	☐	☐	☑	27	60	5	8	13	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	24	L	22PC-629.7-631.0-SC	629.70	631.00				0.81	3.25	2.44	5YR 6/6	☐	☐	☑	40	45	5	10	15	☐	☐	☑	☐	☑	☐	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	24	D	22PC-630.2-631.9-SC	630.20	631.90			4.70	0.10	8.25	8.15		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	24	LX	22PC-631.0-631.9-SC	631.00	631.90				0.81	2.60	1.79	5YR 6/6	☐	☐	☑	44	39	7	10	17	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	24	LC	22PC-631.9-632.1-SC	631.90	632.10								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	25	D	22PC-632.1-632.7-SC	632.10	632.70			4.70	0.10	3.50	3.40		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	25	LX	22PC-632.1-634.1-SC	632.10	634.10				0.81	4.60	3.79	5YR 6/6	☐	☐	☑	37	53	3	7	10	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	25	R	22PC-632.1-636.1-SC	632.10	636.10	0.50	3.70						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/3/2004	DD	25	D	22PC-632.7-634.3-SC	632.70	634.30			4.70	0.10	8.90	8.80		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/3/2004	BW	11/3/2004	DD	25	LX	22PC-634.1-635.8-SC	634.10	635.80				0.79	4.65	3.86	5YR 5/4	☐	☐	☑	42	39	7	12	19	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	25	D	22PC-634.3-635.8-SC	634.30	635.80			4.70	0.10	8.65	8.55		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/3/2004	DD	25	LC	22PC-635.8-636.1-SC	635.80	636.10								■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/3/2004	DD	26	LX	22PC-636.1-637.7-SC	636.10	637.70				0.83	3.60	2.77	5YR 5/3	☐	☐	☑	48	29	7	16	23	☐	☐	☑	☐	☐	☐	☑	GC	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/3/2004	DD	26	R	22PC-636.1-641.6-SC	636.10	641.60	0.20	5.30						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/3/2004	DD	26	D	22PC-636.1-636.7-SC	636.10	636.70			4.70	0.10	5.15	5.05		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/3/2004	DD	26	D	22PC-636.7-637.9-SC	636.70	637.90			4.70	0.10	6.25	6.15		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	26	L	22PC-637.7-639.1-SC	637.70	639.10				0.82	2.98	2.16	7.5YR 4/2	☐	☐	☑	23	56	7	14	21	☐	☐	☑	☐	☐	☐	☑	SC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	26	D	22PC-637.9-639.2-SC	637.90	639.20			4.70	0.10	7.10	7.00		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	26	LX	22PC-639.1-641.3-SC	639.10	641.30				0.80	5.00	4.20	5YR 5/8	☐	☐	☑	33	50	7	10	17	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	26	D	22PC-639.2-640.3-SC	639.20	640.30			4.70	0.10	8.20	8.10		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	26	D	22PC-640.3-641.3-SC	640.30	641.30			4.70	0.10	6.95	6.85		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	26	LC	22PC-641.3-641.6-SC	641.30	641.60								■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	27	R	22PC-641.6-648.4-SC	641.60	648.40	0.60	6.80						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	27	D	22PC-641.6-643.3-SC	641.60	643.30			4.70	0.10	10.65	10.55		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			
11/3/2004	BW	11/4/2004	DD/BW	27	LX	22PC-641.6-642.1-SC	641.60	642.10				0.82	2.30	1.48	5YR 4/6	☐	☐	☑	14	60	10	16	26	☐	☐	☑	☐	☐	☐	☑	SC	☐	☐	☑	☐	☐	☑	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	27	L	22PC-642.1-645.0-SC	642.10	645.00				0.81	4.70	3.89	2.5YR 5/6	☐	☐	☑	26	55	4	15	19	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☐	☑	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	27	D	22PC-643.3-644.6-SC	643.30	644.60			4.70	0.10	8.10	8.00		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/3/2004	BW	11/4/2004	DD/BW	27	D	22PC-644.6-645.9-SC	644.60	645.90			4.70	0.10	8.20	8.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/4/2004	DD/BW	27	L	22PC-645.0-646.8-SC	645.00	646.80				0.80	4.55	3.75	2.5YR 5/6	☐	☐	☑	47	37	6	10	16	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	27	D	22PC-645.9-647.1-SC	645.90	647.10			4.70	0.10	7.85	7.75		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/3/2004	BW	11/4/2004	DD/BW	27	LX	22PC-646.8-648.4-SC	646.80	648.40				0.80	3.15	2.35	2.5YR 5/6	☐	☐	☑	8	69	8	15	23	☐	☐	☑	☐	☐	☐	☑	SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/3/2004	BW	11/4/2004	DD/BW	27	D	22PC-647.1-648.4-SC	647.10	648.40			4.70	0.10	7.80	7.70		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/4/2004	DD/BW	28	D	22PC-648.4-649.0-SC	648.40	649.00			4.70	0.10	4.15	4.05		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/4/2004	DD/BW	28	LX	22PC-648.4-651.6-SC	648.40	651.60				0.86	5.45	4.59	2.5YR 5/8	☐	☐	☑	29	55	6	10	16	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/4/2004	DD/BW	28	R	22PC-648.4-656.8-SC	648.40	656.80	1.20	8.40						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/4/2004	DD/BW	28	D	22PC-649.0-650.4-SC	649.00	650.40			4.70	0.10	8.20	8.10		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	28	D	22PC-650.4-651.7-SC	650.40	651.70			4.70	0.10	8.50	8.40		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	28	L	22PC-651.6-652.8-SC	651.60	652.80				0.83	3.45	2.62	2.5YR 5/8	☐	☐	☑	46	42	4	8	12	☑	☐	☐	☐	☐	☑	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	28	D	22PC-651.7-653.1-SC	651.70	653.10			4.70	0.10	8.40	8.30		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	28	L	22PC-652.8-655.6-SC	652.80	655.60				0.83	6.05	5.22	2.5YR 5/8	☐	☐	☑	33	47	5	15	20	☐	☐	☑	☐	☐	☐	☑	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	28	D	22PC-653.1-654.5-SC	653.10	654.50			4.70	0.10	7.75	7.65		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	28	D	22PC-654.5-655.8-SC	654.50	655.80			4.70	0.10	8.00	7.90		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	28	LX	22PC-655.6-656.8-SC	655.60	656.80				0.87	4.25	3.38	2.5YR 5/6	☐	☐	☑	26	52	7	15	22	☐	☐	☑	☐	☐	☐	☑	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	28	D	22PC-655.8-656.8-SC	655.80	656.80			4.70	0.10	7.80	7.70		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
11/4/2004	DD	11/5/2004	BW	29	D	22PC-656.8-658.3-SC	656.80	658.30			4.70	0.10	9.05	8.95		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/4/2004	DD	11/5/2004	BW	29	LX	22PC-656.8-658.3-SCA	656.80	658.30				0.86	3.50	2.64	2.5YR 5/6	☐	☐	☑	36	49	5	10	15	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	29	R	22PC-656.8-661.2-SC	656.80	661.20	0.60	4.40						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	29	D	22PC-658.3-659.7-SC	658.30	659.70			4.70	0.10	8.10	8.00		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	29	L	22PC-658.3-659.5-SC	658.30	659.50				0.77	2.90	2.13	2.5YR 5/6	☐	☐	☑	29	58	3	10	13	☑	☐	☐	☐	☐	☑	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	29	LX	22PC-659.5-661.2-SC	659.50	661.20				0.81	3.95	3.14	5YR 5/6	☐	☐	☑	46	38	6	10	16	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	29	D	22PC-659.7-661.2-SC	659.70	661.20			4.70	0.10	9.25	9.15		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	30	LX	22PC-661.2-663.3-SC	661.20	663.30				0.83	5.75	4.92	5YR 5/4	☐	☐	☑	20	66	5	9	14	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	30	R	22PC-661.2-668.0-SC	661.20	668.00	0.60	6.80						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	30	D	22PC-661.2-662.1-SC	661.20	662.10			4.70	0.10	5.50	5.40		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	30	D	22PC-662.1-663.7-SC	662.10	663.70			4.70	0.10	9.15	9.05		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/5/2004	BW	30	L	22PC-663.3-666.2-SC	663.30	666.20				0.87	7.05	6.18	5YR 5/6	☐	☐	☑	50	37	6	7	13	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/5/2004	BW	30	D	22PC-663.7-665.2-SC	663.70	665.20			4.70	0.10	9.55	9.45		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/9/2004	BW/EJH	30	D	22PC-665.2-666.8-SC	665.20	666.80			4.70	0.10	9.05	8.95		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	DD	11/9/2004	BW/EJH	30	LX	22PC-666.2-668.0-SC	666.20	668.00				0.86	5.05	4.19	5YR 4/4	☐	☐	☑	46	38	6	10	16	☐	☐	☑	☐	☐	☑	☐	GC	☐	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	DD	11/9/2004	BW/EJH	30	D	22PC-666.8-668.0-SC	666.80	668.00			4.70	0.10	8.00	7.90		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	EJH	11/9/2004	BW/EJH	31	R	22PC-668.0-673.9-SC	668.00	673.90	0.50	5.20						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	EJH	11/9/2004	BW/EJH	31	D	22PC-668.0-669.0-SC	668.00	669.00			4.70	0.10	5.60	5.50		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/4/2004	EJH	11/9/2004	BW/EJH	31	LX	22PC-668.0-670.7-SC	668.00	670.70				0.82	5.85	5.03	5YR 5/6	☐	☐	☑	23	54	8	15	23	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☑	☐	☐	100		

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/4/2004	EJH	11/9/2004	BW/EJH	31	D	22PC-669.0-670.5-SC	669.00	670.50			4.70	0.10	7.50	7.40																															
11/4/2004	EJH	11/9/2004	BW/EJH	31	D	22PC-670.5-672.0-SC	670.50	672.00			4.70	0.10	7.95	7.85																															
11/4/2004	EJH	11/9/2004	BW/EJH	31	LX	22PC-670.7-673.2-SC	670.70	673.20				0.83	6.30	5.47	5YR 5/6	☐	☐	☑	50	35	5	10	15	☐	☐	☑	☐	☑	☐	☐	GC	☐	☑	☐	☐	☑	☐	☐	☑	☐	☐	100		
11/4/2004	EJH	11/9/2004	BW/EJH	31	D	22PC-672.0-673.2-SC	672.00	673.20			4.70	0.10	7.90	7.80																															
11/4/2004	EJH	11/9/2004	BW/EJH	31	LC	22PC-673.2-673.9-SC	673.20	673.90																																					
11/5/2004	BW	11/9/2004	BW/EJH	32	D	22PC-673.9-674.4-SC	673.90	674.40			4.70	0.10	2.86	2.76																															
11/5/2004	BW	11/9/2004	BW/EJH	32	R	22PC-673.9-678.1-SC	673.90	678.10	0.50	3.30																																			
11/5/2004	BW	11/9/2004	BW/EJH	32	LX	22PC-673.9-675.3-SC	673.90	675.30				0.82	3.50	2.68	5YR 5/6	☐	☐	☑	30	64	2	4	6	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	BW/EJH	32	D	22PC-674.4-675.9-SC	674.40	675.90			4.70	0.10	9.40	9.30																															
11/5/2004	BW	11/9/2004	BW/EJH	32	LX	22PC-675.3-677.3-SC	675.30	677.30				0.83	5.65	4.82	5YR 5/6	☐	☐	☑	36	45	7	12	19	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	BW/EJH	32	D	22PC-675.9-677.3-SC	675.90	677.30			4.70	0.10	8.95	8.85																															
11/5/2004	BW	11/9/2004	BW/EJH	32	LC	22PC-677.3-678.1-SC	677.30	678.10																																					
11/5/2004	BW	11/9/2004	BW/EJH	33	LX	22PC-678.1-679.4-SC	678.10	679.40				0.83	2.30	1.47	5YR 6/6	☐	☐	☑	26	68	2	4	6	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	EJH	33	R	22PC-678.1-688.1-SC	678.10	688.10	1.20	9.30																																			
11/5/2004	BW	11/9/2004	BW/EJH	33	D	22PC-678.1-678.9-SC	678.10	678.90			4.70	0.10	5.45	5.35																															
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-678.9-680.3-SC	678.90	680.30			4.70	0.10	8.25	8.15																															
11/5/2004	BW	11/9/2004	EJH	33	L	22PC-679.4-684.2-SC	679.40	684.20				0.86	2.55	1.69	5YR 5/6	☐	☐	☑	58	34	3	5	8	☑	☐	☐	☑	☐	☐	☐	GW-GC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-680.3-681.9-SC	680.30	681.90			4.70	0.10	10.95	10.85																															

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-681.9-683.3-SC	681.90	683.30			4.70	0.10	9.35	9.25																														
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-683.3-684.7-SC	683.30	684.70			4.70	0.10	8.85	8.75																														
11/5/2004	BW	11/9/2004	EJH	33	L	22PC-684.2-686.9-SC	684.20	686.90				0.86	2.25	1.39	5YR 5/6	☐	☐	☑	20	66	6	8	14	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-684.7-686.1-SC	684.70	686.10			4.70	0.10	9.35	9.25																														
11/5/2004	BW	11/9/2004	EJH	33	D	22PC-686.1-687.4-SC	686.10	687.40			4.70	0.10	9.35	9.25																														
11/5/2004	BW	11/9/2004	EJH	33	LX	22PC-686.9-687.4-SC	686.90	687.40				0.82	1.20	0.38	7.5YR 5/4	☐	☐	☑	52	35	5	8	13	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/5/2004	BW	11/9/2004	EJH	33	LC	22PC-687.4-688.1-SC	687.40	688.10																																				
11/8/2004	BW	11/9/2004	EJH	34	LX	22PC-688.1-689.3-SC	688.10	689.30				0.86	2.90	2.04	5YR 6/6	☐	☐	☑	32	53	5	10	15	☐	☐	☑	☐	☑	☐	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	34	R	22PC-688.1-690.3-SC	688.10	690.30	0.20	2.00																																		
11/8/2004	BW	11/9/2004	EJH	34	D	22PC-688.1-688.4-SC	688.10	688.40			4.70	0.10	1.90	1.80																														
11/8/2004	BW	11/9/2004	EJH	34	D	22PC-688.4-690.1-SC	688.40	690.10			4.70	0.10	9.45	9.35																														
11/8/2004	BW	11/9/2004	EJH	34	LX	22PC-689.3-690.1-SC	689.30	690.10				0.81	4.00	3.19	5YR 6/6	☐	☐	☑	27	51	7	15	22	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	34	LC	22PC-690.1-690.3-SC	690.10	690.30																																				
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-690.3-691.4-SC	690.30	691.40			4.70	0.10	6.65	6.55																														
11/8/2004	BW	11/9/2004	EJH	35	R	22PC-690.3-699.2-SC	690.30	699.20	0.70	8.90																																		
11/8/2004	BW	11/9/2004	EJH	35	LX	22PC-690.3-691.9-SC	690.30	691.90				0.86	4.75	3.89	5YR 5/6	☐	☐	☑	18	67	5	10	15	☐	☐	☑	☐	☑	☐	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-691.4-692.9-SC	691.40	692.90			4.70	0.10	8.75	8.65																														
11/8/2004	BW	11/9/2004	EJH	35	L	22PC-691.9-692.7-SC	691.90	692.70				0.82	5.60	4.78	5YR 5/6	☐	☐	☑	41	53	2	4	6	☑	☐	☐	☑	☐	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/8/2004	BW	11/9/2004	EJH	35	L	22PC-692.7-696.1-SC	692.70	696.10				0.86	4.55	3.69	5YR 5/6	☐	☐	☑	53	34	6	7	13	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-692.9-694.3-SC	692.90	694.30			4.70	0.10	8.25	8.15		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-694.3-695.6-SC	694.30	695.60			4.70	0.10	7.50	7.40		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-695.6-696.9-SC	695.60	696.90			4.70	0.10	7.45	7.35		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	35	LX	22PC-696.1-699.2-SC	696.10	699.20				0.82	4.55	3.73	5YR 5/6	☐	☐	☑	32	48	5	15	20	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-696.9-698.1-SC	696.90	698.10			4.70	0.10	7.10	7.00		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	35	D	22PC-698.1-699.2-SC	698.10	699.20			4.70	0.10	6.45	6.35		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	36	LX	22PC-699.2-699.8-SC	699.20	699.80				0.81	3.50	2.69	5YR 6/6	☐	☐	☑	35	47	7	11	18	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	36	R	22PC-699.2-706.1-SC	699.20	706.10	0.60	5.60						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	36	D	22PC-699.2-700.9-SC	699.20	700.90			4.70	0.10	8.85	8.75		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	36	L	22PC-699.8-701.0-SC	699.80	701.00				0.86	3.90	3.04	5YR 6/6	☐	☐	☑	38	46	6	10	16	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	36	D	22PC-700.9-702.1-SC	700.90	702.10			4.70	0.10	6.95	6.85		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	36	L	22PC-701.0-703.4-SC	701.00	703.40				0.87	5.20	4.33	5YR 5/4	☐	☐	☑	37	44	7	12	19	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	36	D	22PC-702.1-703.7-SC	702.10	703.70			4.70	0.10	8.85	8.75		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/9/2004	EJH	36	LX	22PC-703.4-704.9-SC	703.40	704.90				0.82	4.45	3.63	5YR 6/8	☐	☐	☑	37	45	6	12	18	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/8/2004	BW	11/9/2004	EJH	36	D	22PC-703.7-704.9-SC	703.70	704.90			4.70	0.10	7.90	7.80		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/11/2004	EJH	36	LC	22PC-704.9-706.1-SC	704.90	706.10								■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/8/2004	BW	11/11/2004	EJH	37	R	22PC-706.1-709.0-SC	706.10	709.00	0.40	2.90						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/8/2004	BW	11/11/2004	EJH	37	D	22PC-706.1-706.4-SC	706.10	706.40			4.70	0.10	2.15	2.05																															
11/8/2004	BW	11/11/2004	EJH	37	LX	22PC-706.1-707.0-SC	706.10	707.00				0.82	6.05	5.23	5YR 5/6			✓	21	58	6	15	21			✓			✓		SC		✓			✓				✓			100		
11/8/2004	BW	11/11/2004	EJH	37	D	22PC-706.4-707.8-SC	706.40	707.80			4.70	0.10	8.60	8.50																															
11/8/2004	BW	11/11/2004	EJH	37	LX	22PC-707.0-709.0-SC	707.00	709.00				0.82	7.65	6.83	5YR 5/6			✓	40	45	5	10	15			✓		✓			SC		✓			✓				✓			100		
11/8/2004	BW	11/11/2004	EJH	37	D	22PC-707.8-709.0-SC	707.80	709.00			4.70	0.10	8.35	8.25																															
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-709.0-710.6-SC	709.00	710.60			4.70	0.10	9.10	9.00																															
11/9/2004	BW	11/11/2004	EJH	38	R	22PC-709.0-719.0-SC	709.00	719.00	0.40	9.60																																			
11/9/2004	BW	11/11/2004	EJH	38	LX	22PC-709.0-712.1-SC	709.00	712.10				0.81	5.80	4.99	7.5YR 5/2			✓	44	45	4	7	11	✓				✓			SW-SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-710.6-712.1-SC	710.60	712.10			4.70	0.10	9.05	8.95																															
11/9/2004	BW	11/11/2004	EJH	38	L	22PC-712.1-714.0-SC	712.10	714.00				0.82	4.15	3.33	5YR 5/6			✓	33	55	4	8	12	✓				✓			SW-SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-712.1-713.6-SC	712.10	713.60			4.70	0.10	8.80	8.70																															
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-713.6-715.0-SC	713.60	715.00			4.70	0.10	7.90	7.80																															
11/9/2004	BW	11/11/2004	EJH	38	L	22PC-714.0-715.6-SC	714.00	715.60				0.86	5.85	4.99	5YR 5/6			✓	30	57	5	8	13	✓				✓			SW-SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-715.0-717.1-SC	715.00	717.10			4.70	0.10	10.95	10.85																															
11/9/2004	BW	11/11/2004	EJH	38	LX	22PC-715.6-718.7-SC	715.60	718.70				0.86	7.45	6.59	5YR 5/6			✓	42	41	5	12	17			✓			✓		GC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	38	D	22PC-717.1-718.7-SC	717.10	718.70			4.70	0.10	10.10	10.00																															
11/9/2004	BW	11/11/2004	EJH	38	LC	22PC-718.7-719.0-SC	718.70	719.00																																					
11/9/2004	BW	11/11/2004	BW	39	R	22PC-719.0-721.5-SC	719.00	721.50	0.30	1.90																																			

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/9/2004	BW	11/11/2004	EJH	39	D	22PC-719.0-719.7-SC	719.00	719.70			4.70	0.10	4.36	4.26																															
11/9/2004	BW	11/11/2004	EJH	39	LX	22PC-719.0-719.5-SC	719.00	719.50				0.85	4.10	3.25	7.5YR 5/4			✓	19	61	5	15	20			✓			✓		SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	39	L	22PC-719.5-720.4-SC	719.50	720.40				0.83	3.15	2.32	5YR 5/6			✓	34	49	7	10	17			✓			✓		SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	39	D	22PC-719.7-720.9-SC	719.70	720.90			4.70	0.10	9.35	9.25																															
11/9/2004	BW	11/11/2004	EJH	39	LX	22PC-720.4-720.9-SC	720.40	720.90				0.83	3.25	2.42	7.5YR 5/4			✓	41	42	7	10	17			✓			✓		SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	39	LC	22PC-720.9-721.5-SC	720.90	721.50																																					
11/9/2004	BW	11/11/2004	EJH	40	R	22PC-721.5-729.9-SC	721.50	729.90	0.70	7.30																																			
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-721.5-722.3-SC	721.50	722.30			4.70	0.10	6.31	6.21																															
11/9/2004	BW	11/11/2004	EJH	40	LX	22PC-721.5-725.5-SC	721.50	725.50				0.83	4.95	4.12	7.5YR 5/6			✓	62	28	4	6	10	✓				✓			GW-GC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-722.3-723.7-SC	722.30	723.70			4.70	0.10	9.50	9.40																															
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-723.7-725.0-SC	723.70	725.00			4.70	0.10	8.80	8.70																															
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-725.0-726.4-SC	725.00	726.40			4.70	0.10	9.35	9.25																															
11/9/2004	BW	11/11/2004	EJH	40	L	22PC-725.5-726.0-SC	725.50	726.00				0.83	4.20	3.37	5YR 6/6			✓	27	55	8	10	18			✓			✓		SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	40	LX	22PC-726.0-728.8-SC	726.00	728.80				0.83	3.50	2.67	7.5YR 5/6			✓	32	50	8	10	18			✓			✓		SC		✓			✓				✓			100		
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-726.4-727.8-SC	726.40	727.80			4.70	0.10	8.60	8.50																															
11/9/2004	BW	11/11/2004	EJH	40	D	22PC-727.8-728.8-SC	727.80	728.80			4.70	0.10	7.90	7.80																															
11/9/2004	BW	11/11/2004	EJH	40	LC	22PC-728.8-729.9-SC	728.80	729.90																																					
11/10/2004	BW	11/11/2004	EJH	41	D	22PC-729.9-730.4-SC	729.90	730.40			4.70	0.10	2.70	2.60																															

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/10/2004	BW	11/11/2004	EJH	41	LX	22PC-729.9-731.5-SC	729.90	731.50				0.83	3.95	3.12	5YR 5/6	☐	☐	☑	27	51	7	15	22	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	41	R	22PC-729.9-734.8-SC	729.90	734.80	0.50	3.20						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	41	D	22PC-730.4-731.8-SC	730.40	731.80			4.70	0.10	8.40	8.30		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	41	LX	22PC-731.5-733.2-SC	731.50	733.20				0.82	3.85	3.03	5YR 5/8	☐	☐	☑	20	58	7	15	22	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	41	D	22PC-731.8-733.2-SC	731.80	733.20			4.70	0.10	9.05	8.95		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	41	LC	22PC-733.2-734.8-SC	733.20	734.80								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	R	22PC-734.8-739.9-SC	734.80	739.90	0.60	4.80						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	D	22PC-734.8-735.7-SC	734.80	735.70			4.70	0.10	5.25	5.15		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	LX	22PC-734.8-736.4-SC	734.80	736.40				0.85	3.78	2.93	5YR 5/4	☐	☐	☑	21	49	10	20	30	☐	☐	☑	☐	☐	☐	☑	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	42	D	22PC-735.7-737.0-SC	735.70	737.00			4.70	0.10	9.00	8.90		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	L	22PC-736.4-737.1-SC	736.40	737.10				0.85	6.20	5.35	5YR 5/8	☐	☐	☑	26	52	8	14	22	☐	☐	☑	☐	☐	☑	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	42	D	22PC-737.0-738.3-SC	737.00	738.30			4.70	0.10	10.15	10.05		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	LX	22PC-737.1-739.6-SC	737.10	739.60				0.85	7.10	6.25	5YR 5/6	☐	☐	☑	31	48	7	14	21	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	42	D	22PC-738.3-739.6-SC	738.30	739.60			4.70	0.10	9.10	9.00		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	42	LC	22PC-739.6-739.9-SC	739.60	739.90								☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	43	R	22PC-739.9-747.0-SC	739.90	747.00	0.50	6.00						☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	43	D	22PC-739.9-740.5-SC	739.90	740.50			4.70	0.10	3.80	3.70		☐	☐	☐						☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐				
11/10/2004	BW	11/11/2004	EJH	43	LX	22PC-739.9-741.8-SC	739.90	741.80				0.80	4.65	3.85	5YR 6/6	☐	☐	☑	18	63	9	10	19	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

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Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/10/2004	BW	11/11/2004	EJH	43	D	22PC-740.5-742.0-SC	740.50	742.00			4.70	0.10	9.15	9.05																															
11/10/2004	BW	11/11/2004	EJH	43	L	22PC-741.8-743.1-SC	741.80	743.10				0.80	495.00	494.20	5YR 5/6	☐	☐	☑	32	56	4	8	12	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	43	D	22PC-742.0-743.4-SC	742.00	743.40			4.70	0.10	8.70	8.60																															
11/10/2004	BW	11/11/2004	EJH	43	LX	22PC-743.1-745.9-SC	743.10	745.90				0.80	4.90	4.10	5YR 5/8	☐	☐	☑	23	46	11	20	31	☐	☐	☑	☐	☐	☐	☑	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	43	D	22PC-743.4-745.0-SC	743.40	745.00			4.70	0.10	8.90	8.80																															
11/10/2004	BW	11/11/2004	EJH	43	D	22PC-745.0-745.9-SC	745.00	745.90			4.70	0.10	7.05	6.95																															
11/10/2004	BW	11/11/2004	EJH	43	LC	22PC-745.9-747.0-SC	745.90	747.00																																					
11/10/2004	BW	11/11/2004	EJH	44	LX	22PC-747.0-747.4-SCA	747.00	747.40				0.80	2.95	2.15	5YR 6/6	☐	☐	☑	46	42	4	8	12	☑	☐	☐	☐	☑	☐	☐	GW-GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	44	R	22PC-747.0-754.9-SC	747.00	754.90	0.90	7.90																																			
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-747.0-747.4-SC	747.00	747.40			4.70	0.10	2.20	2.10																															
11/10/2004	BW	11/11/2004	EJH	44	L	22PC-747.4-749.1-SC	747.40	749.10				0.85	5.00	4.15	5YR 6/6	☐	☐	☑	16	71	5	8	13	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-747.4-748.8-SC	747.40	748.80			4.70	0.10	9.50	9.40																															
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-748.8-750.2-SC	748.80	750.20			4.70	0.10	9.20	9.10																															
11/10/2004	BW	11/11/2004	EJH	44	L	22PC-749.1-752.9-SC	749.10	752.90				0.85	6.80	5.95	5YR 6/6	☐	☐	☑	39	40	7	14	21	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-750.2-751.7-SC	750.20	751.70			4.70	0.10	9.40	9.30																															
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-751.7-753.2-SC	751.70	753.20			4.70	0.10	9.15	9.05																															
11/10/2004	BW	11/11/2004	EJH	44	LX	22PC-752.9-754.9-SC	752.90	754.90				0.85	5.10	4.25	5YR 6/6	☐	☐	☑	26	58	6	10	16	☐	☐	☑	☐	☐	☑	☐	SC	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	44	D	22PC-753.2-754.9-SC	753.20	754.90			4.70	0.10	8.75	8.65																															

Alluvium Core Logging Form - Nye County Nuclear Waste Repository Project Office

Key for Sample Number: SC = Sonic core; SCA = Sonic core duplicate interval; C = Drive core. Key for Sample Type: L = Logging; D = Density; F = Fill; LC = Lost core; R = Entire run; X = End of run (overlaps with next run).

Borehole ID: **NC-EWDP-22PC** (Phase 5) Driller/Drilling Company: Shawn Cain/Boart Longyear Drilling Method: Sonic Coring Alluvium Depth (ft bgs): 460 to 763 Start Date: 10/26/2004 End Date: 11/11/2004

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Core Run Number	Sample Type	Sample Number	Depth Interval (feet bgs) From	Depth Interval (feet bgs) To	Coring Data: Coring Rate (feet/min)	Coring Data: Sample Recovery (feet)	Coring Data: Core Diameter (inches)	Sample Density Data: Tare Weight (kg)	Sample Density Data: Sample Plus Tare Weight (kg)	Sample Density Data: 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	Grading: Not Applicable	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
11/10/2004	BW	11/11/2004	EJH	45	LX	22PC-754.9-755.5-SC	754.90	755.50							5YR 6/6	☐	☐	☑	32	47	7	14	21	☐	☐	☑	☐	☐	☑	☐	SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	45	R	22PC-754.9-759.5-SC	754.90	759.50	0.20	4.70						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/10/2004	BW	11/11/2004	EJH	45	D	22PC-754.9-756.3-SC	754.90	756.30			4.70	0.10	7.15	7.05		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/10/2004	BW	11/11/2004	EJH	45	L	22PC-755.5-759.2-SC	755.50	759.20				0.85	6.60	5.75	5YR 6/6	☐	☐	☑	41	37	8	14	22	☐	☐	☑	☐	☐	☑	☐	GC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/10/2004	BW	11/11/2004	EJH	45	D	22PC-756.3-758.1-SC	756.30	758.10			4.70	0.10	9.50	9.40		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/10/2004	BW	11/11/2004	EJH	45	D	22PC-758.1-759.5-SC	758.10	759.50			4.70	0.10	9.35	9.25		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/11/2004	BW	6/2/2005	DD	45	LX	22PC-759.2-759.5-SC	759.20	759.50				0.80	2.50	1.70	5YR 6/4	☐	☐	☑	29	57	5	9	14	☑	☐	☐	☐	☑	☐	☐	SW-SC	☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/11/2004	BW	6/2/2005	DD	46	R	22PC-759.5-763.0-SC	759.50	763.00	0.30	3.30						■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/11/2004	BW	6/2/2005	DD	46	D	22PC-759.5-760.3-SC	759.50	760.30			4.70	0.10	6.75	6.65		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/11/2004	BW	6/2/2005	DD	46	LX	22PC-759.5-761.3-SC	759.50	761.30				0.82	6.05	5.23	5YR 5/4	☐	☐	☑						■	■	■	■	■	■	■		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/11/2004	BW	6/2/2005	DD	46	D	22PC-760.3-761.6-SC	760.30	761.60			4.70	0.10	10.80	10.70		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/11/2004	BW	6/2/2005	DD	46	L	22PC-761.3-762.4-SC	761.30	762.40				0.82	4.10	3.28	5YR 5/4	☐	☐	☑						■	■	■	■	■	■	■		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/11/2004	BW	6/2/2005	DD	46	D	22PC-761.6-762.8-SC	761.60	762.80			4.70	0.10	10.80	10.70		■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			
11/11/2004	BW	6/2/2005	DD	46	LX	22PC-762.4-762.8-SC	762.40	762.80				0.82	4.50	3.68	5YR 5/4	☐	☐	☑						■	■	■	■	■	■	■		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/11/2004	BW	6/2/2005	DD	46	LC	22PC-762.8-763.0-SC	762.80	763.00								■	■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■			