Site Name: DEER CANYON '86	Qualitative				Quantitative						% Composition			
Exposure: E	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3+28	E	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3+28	E	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3+28	E	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3+28	E	N	NOT SAMPLED							NOT SAMPLED		

Site Name: SEDIMENT BASIN '91	Qualitative				Quantitative						% Composition			
Exposure: V	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	1+2	N	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	1+2	N	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	1+2	N	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	1+2	N	N	NOT SAMPLED							NOT SAMPLED		

Site Name: PINYON JUNIPER REFERENCE AREA	Qualitative				Quantitative						% Composition			
Exposure: V	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3+2	E	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3+2	E	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3+2	E	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3+2	E	N	NOT SAMPLED							NOT SAMPLED		

Site Name: C1 CONVEYOR '93 (U 132-190)	Qualitative				Quantitative						% Composition			
Exposure: E	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3F	W	N+W	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3F	W	N+W	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3F	W	N+W	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3F	W	N+W	NOT SAMPLED							NOT SAMPLED		

Site Name: PIPELINE '86	Qualitative				Quantitative						% Composition			
Exposure: V	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3+28	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3+28	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3+28	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 11-14	3+28	W	N	NOT SAMPLED							NOT SAMPLED		

Site Name: ROADSIDE AREAS '90	Qualitative				Quantitative						% Composition			
Exposure: NE	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3F	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3F	W	N	NOT SAMPLED							NOT SAMPLED		

Site Name: FAN ROAD SLOPES '89	Qualitative				Quantitative						% Composition			
Exposure: F	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3	N	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3	N	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3	N	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3	N	N	NOT SAMPLED							NOT SAMPLED		

Site Name: ROCK SLIDE & BERM '88	Qualitative				Quantitative						% Composition			
Exposure: E	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3F+	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3F+	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3F+	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3F+	W	N	NOT SAMPLED							NOT SAMPLED		

Site Name: SED. POND DAM '91	Qualitative				Quantitative						% Composition			
Exposure: V	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	1+2F	N	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	1+2F	N	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	1+2F	N	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	1+2F	N	N	NOT SAMPLED							NOT SAMPLED		

Site Name: REFUSE PILE & BERM '88	Qualitative				Quantitative						% Composition			
Exposure: NE	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	5+E	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	5F	W	N+E	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	5F	W	N+E	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	5F	W	N+E	NOT SAMPLED							NOT SAMPLED		

Site Name: WATER CONVEY REFERENCE AREA	Qualitative				Quantitative						% Composition			
Exposure: NSW	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3+SW	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3+SW	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3+SW	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3+SW	W	N	NOT SAMPLED							NOT SAMPLED		

Site Name: GATE AREA SLOPE '90	Qualitative				Quantitative						% Composition			
Exposure: E	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	2F	W	N+W	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	2F	W	N+W	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	2F	W	N+W	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	2F	W	N+W	NOT SAMPLED							NOT SAMPLED		

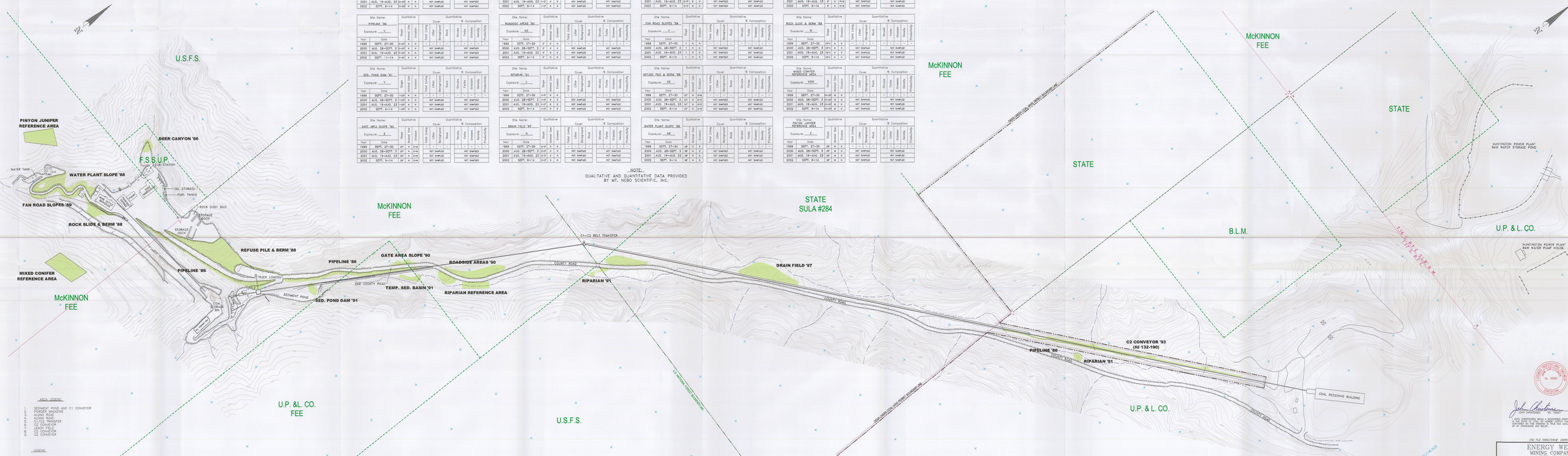
Site Name: RIPARIAN '91	Qualitative				Quantitative						% Composition			
Exposure: V	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	1+2	S	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	1+2	S	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	1+2	S	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	1+2	S	N	NOT SAMPLED							NOT SAMPLED		

Site Name: DRAIN FIELD '97	Qualitative				Quantitative						% Composition			
Exposure: N	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1998	SEPT. 27-30	2+2	S	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	1+2	S	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	1+2	S	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	1+2	S	N	NOT SAMPLED							NOT SAMPLED		

Site Name: WATER PLANT SLOPE '88	Qualitative				Quantitative						% Composition			
Exposure: NE	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3F	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3F	W	N	NOT SAMPLED							NOT SAMPLED		

Site Name: PINYON JUNIPER REFERENCE AREA	Qualitative				Quantitative						% Composition			
Exposure: E	Slope	Aerial Use	Erosion	Cover	Total Living	Litter	Bioground	Rock	Shrubs	Forbs	Grasses	Density	Productivity
Year	Date													
1999	SEPT. 27-30	3F	W	N	–	–	–	–	–	–	–	–	–	–
2000	AUG. 28-SEPT. 3	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2001	AUG. 19-AUG. 23	3F	W	N	NOT SAMPLED							NOT SAMPLED		
2002	SEPT. 9-14	3F	W	N	NOT SAMPLED							NOT SAMPLED		

NOTE:
QUALITATIVE AND QUANTITATIVE DATA PROVIDED BY MT. NEBO SCIENTIFIC, INC.



KPCA LEGEND

1. SEDIMENT POND AND C1 CONVEYOR
2. POWDER MAGAZINE
3. ROCK DUST SILO
4. ALONG ROAD
5. C1/C2 TRANSFER
6. C2 CONVEYOR
7. LEACH FIELD
8. C2 CONVEYOR
9. C2 CONVEYOR

LEGEND

- U.P. & L. CO. PERMIT BOUNDARY
- U.S. NATIONAL FOREST SERVICE BOUNDARY
- SURFACE OWNERSHIP BOUNDARY

I, JOHN CHRISTENSEN, BEING A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH, DO HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN CHRISTENSEN No. 180921 — DATE 3/21/03

CAD FILE NAME/DISK: I:\ENERGY WEST\COMPANY\DECANYON.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DEER CREEK COAL MINE
HUNTINGTON POND TO DEER CREEK MINE
2002 VEGETATION MONITORING

DRAWN BY: K. ABEYTA & K.H. | CM-10673-DR
SCALE: 1" = 200'
DRAWING #
DATE: MAY 29, 1998 | SHEET 1 OF 1 | REV.

3-20-03	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2002	KA
4-19-02	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2001	KA
5-16-00	ADDED EQUIPMENT STORAGE AREA SECTION	KA
11-19-99	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 1999	KA
12-09-98	ADDED KPCA AREAS 1-9 AND NEW LEGEND	KA
DATE	REVISIONS	BY