2

I CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH AND DO ALSO CERTIFY THAT THIS DRAWING/PLAN IS ACCURATE IN DEPICTING THE RIGHT-OF-WAY AND PERMIT BOUNDARY TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN CHRISTENSEN NO. 166651 DATE 3/20/03

LICENSED PROFESSIONAL ENGINEER JOHN CHRISTENSEN No. 166651 STATE OF UTAH

NOTE:
BONDED AREA IS DISTURBED AREA

NOTE:
THE CURRENT LIFT CONTOUR OF THE REFUSE PILE IS NOT REFLECTED ON THIS MAP.

LEGEND

- 1990 SEEDING (INTERIM)
- 1991 SEEDING/BERMS 1 & 2 (FINAL)
- 1994 SEEDING/BERM 3 (FINAL)
- 1996 SEEDING/BERM 4 (FINAL)

CONTOUR INTERVAL 5 FEET

CAD FILE NAME/DISK#: CWWSVCO

ENERGY WEST MINING COMPANY HUNTINGTON, UTAH 84528	
C/TWD/WIL/TRAIL MTN/DES-BEE-DOVE MINES WASTE ROCK STORAGE FACILITY 2002 VEGETATION MONITORING	
DRAWN BY: K. LARSEN	DRAWING #: K51698D
SCALE: 1"=100'	DATE: MARCH 26, 1997 SHEET 1 OF 1 REV. —

N

UTU-65027
WASTE ROCK
STORAGE SITE
25.85 ACRES

U-37642
WASTE ROCK
STORAGE SITE
NORTHERN PARCEL

U-37642
WASTE ROCK
STORAGE SITE
SOUTHERN PARCEL

PROPERTY BOUNDARY (U-37642)

PINYON JUNIPER REFERENCE AREA

STATE ROAD (57)

E 1/4 CORNER
SECTION 34
E 2,110,130.928
N 352,642.212

E 2,110,000

E 2,109,500

E 2,109,000

N 351,500

N 352,000

DISTURBED AREA BOUNDARY

PERMIT BOUNDARY AREA & RIGHT-OF-WAY LINE

FENCE

DITCH DA

DITCH DB

RIP-RAP

REFUSE BERM

SEDIMENT POND BANK '90

TOPSOIL STOCKPILE '90

SUBSOIL STOCKPILE '90

ROAD SLOPES '90

GROUND WATER MONITORING WELL

SED. POND

BASELINE

ACCESS ROAD

12" ø CULVERT

24" ø CULVERT

ACCESS GATE

ABANDONED GAS WELL

TOPSOIL STOCKPILE

MATERIAL STORAGE

OCCASIONAL USE AREA

200'

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

NOTE:

SEDIMENT PONDS BANKS '90

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: V	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	V	N	N	32.00		10.00		30.00		28.00		56.12		3.67		40.21		–		–	
2000	AUG. 28-SEPT. 2	V	S	N	NOT SAMPLED																	
2001	AUG. 27-AUG. 31	V	S	N	NOT SAMPLED																	
2002	SEPT. 2-6	V	N	N	NOT SAMPLED																	

TOPSOIL STOCKPILES '90

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: V	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	V	S-M	N	44.56		26.83		12.40		–		6.25		28.67		10.00		57.08		–	
2000	AUG. 28-SEPT. 2	V	S-M	N	NOT SAMPLED																	
2001	AUG. 27-AUG. 31	V	S-M	N	NOT SAMPLED																	
2002	SEPT. 2-6	V	N	S-M	NOT SAMPLED																	

REFUSE BERM '96

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: S & E	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	ZR	N	N	38.50		10.50		28.50		12.50		85.43		2.25		12.32		–		–	
2000	AUG. 28-SEPT. 2	ZR	N	N	NOT SAMPLED																	
2001	AUG. 27-AUG. 31	ZR	N	N	NOT SAMPLED																	
2002	SEPT. 2-6	ZR	N	S	37.60		12.40		40.50		9.50		83.30		0		16.70		–		–	

REFUSE BERM '94

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: S	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	ZR	W	S	29.00		10.00		36.50		22.50		69.36		1.43		29.21		–		–	
2000	AUG. 28-SEPT. 2	ZR	W	S	NOT SAMPLED																	
2001	AUG. 27-AUG. 31	ZR	W	S	NOT SAMPLED																	
2002	SEPT. 2-6	ZR	N	S	28.50		8.50		43.50		19.50		56.86		0		43.14		–		–	

REFUSE BERM '91

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: S	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	ZR	S	S-M	27.50		13.50		39.50		19.50		78.57		0.00		21.43		–		–	
2000	AUG. 28-SEPT. 2	ZR	S	S-M	24.00		7.00		50.50		18.50		64.61		1.83		13.56		–		–	
2001	AUG. 27-AUG. 31	ZR	S	S-M	NOT SAMPLED																	
2002	SEPT. 2-6	ZR	S	S-M	NOT SAMPLED																	

ROAD SLOPES '90

Site Name:	Qualitative				Quantitative																	
					Cover								% Composition									
Exposure: V	Animal Use	Slope	Erosion		Total Living		Litter		Bareground		Rock		Shrubs		Forbs		Grasses		Density		Productivity	
Year	Date																					
1999	AUG. 23-27	V	S	N	37.67		11.33		13.00		38.00		24.22		18.07		57.71		–		–	
2000	AUG. 28-SEPT. 2	V	S	N	NOT SAMPLED																	
2001	AUG. 27-AUG. 31	V	S	N	NOT SAMPLED																	
2002	SEPT. 2-6	V	N	N	NOT SAMPLED																	