

Exhibit J Vegetation Information

1.0 Introduction

Vegetation studies were completed within the proposed permit area in April 1997 by Cedar Creek Associates, Inc. The objectives of this field work were to characterize general vegetation types in the permit area and evaluate in more detail vegetation in the proposed disturbed areas. Seven vegetation types were delineated in the project area: Pinyon/Juniper, Shrub/Grassland, Stream Wash, Riparian, Grassland, Pinyon/Juniper Grassland and Grassland/Improved Pasture types. Each vegetation type and field methods are described. The details discussed for each vegetation type varies with the extent it will be disturbed by the mine plan. Map J depicts the boundaries of each type and can be compared with Map I to show the relationship of vegetation types with soil types. Data sheet copies completed in the field are included. Table J-1 presents a species list keyed to vegetation/topographic features to support the field data sheets.

2.0 Survey Methodology

Survey work began with a review and analysis of the project area's topographic map to determine general slope conditions and the potential for vegetation community variability based on topography. Reconnaissance of the project area was conducted and general vegetation community boundaries were identified. Detailed field work followed the reconnaissance evaluation. In each area proposed to be disturbed, one or more 100-foot transects representative of the vegetation types to be impacted were established. Along each transect, percent cover by vegetation, litter and rock was estimated by the line-intercept method. Tree heights were estimated and general observations of each vegetation community surrounding areas were noted. Finally, the local Natural Resources Conservation Service office was visited to obtain aerial photograph copies to complete the vegetation map.

3.0 Results

3.1 Pinyon-Juniper Vegetation Type

This vegetation type occurs primarily in the foot hills to the north of Tallahassee Creek and on the southern portion of the bench. Dominant species include one-seed juniper (Juniperus monosperma), pinyon pine (Pinus edulis), mountain mahogany (Cercocarpus montanus) and blue grama (Bouteloua gracilis). Transect numbers 1, 2, and 3 were run in the area proposed to be disturbed by the granite quarry operation. Slopes ranged from 25 to 40 percent on south-southwest aspects. Total plant cover ranged from 2.7 percent in areas with a high percentage of rock outcrop to 14.8 percent in more vegetated areas. Cover afforded by litter and rock ranged from 0 to 87 percent under these same conditions. Bare ground was highly variable ranging from 10.3 to 85.2 percent. Average tree heights were estimated to range from 15 to 20 feet with shrub heights ranging from 1 to 5 feet. The shrub component of this vegetation type was heavily hedged. Transect number 7 was run in this community at the proposed sandstone quarry site. Dominant community species at transect number 7 paralleled those noted above. Total plant cover was 6.9 percent, cover by litter and rock approximately 74.1 percent, and bare ground equal to 19.0 percent. Average tree heights were 10 to 15 feet and average shrub heights approximately 3.5 feet.

The potential production of native understory vegetation in normal years is typically 300 pounds per acre of air-dry vegetation for this unit within the county (SCS 1995). Given the amount of rock outcrop present on the areas proposed to be disturbed on a site specific basis, the potential production is believed to be a maximum of 100 pounds per acre for this site.

3.2 Shrub/Grassland Vegetation Type

Dominant species within this vegetation type include blue grama, kochia (Kochia scoparia), plains prickly pear (Opuntia polyacantha), and occasionally one-seed juniper. Transect numbers 4 and 5 were selected to represent this vegetation community in the proposed facility area near the granite quarry. Slopes were less than 2.0 percent and the aspect was south-southwest. Total plant cover ranges from 27.6 to 35.8 percent. Bare ground ranged from 64.2 to 72.4 percent. No ground cover was contributed by litter or rock along either transect. Average shrub height was 2.5 feet with the shrubs heavily hedged. Where trees occurred, their average height was 12 feet.

The potential production of native understory vegetation in normal years is typically 1,100 pounds per acre of air-dry vegetation (SCS 1995). The soil existing on site has a higher percent of coarse fragment (gravel) content than the soil mapped for the area by the SCS. Therefore, the potential production is believed to be approximately 800 pounds per acre for this site.

3.3 Stream Wash Vegetation Type

The Stream Wash vegetation type occurs primarily along Tallahassee Creek in the floodplain above the main channel. This type is subject to scouring and receives deposits of alluvium during flooding (SCS 1995). As such, the vegetation extant is sparse and is primarily limited to shrub and tree species along with annual weedy forbs. The dominant species include rubber rabbitbrush (*Chrysothamnus nauseosus*), four-wing saltbush (*Atriplex canescens*), leafy spurge (*Euphorbia esula*), and kochia A few scattered tamarisk (*Tamarix ramosissima*) also occur. Since the proposed disturbance to this vegetation type would be limited to 2 river crossings, no transects were run in this type. The potential production of native understory vegetation was not rated for this type of soil map unit by the SCS. The production potential of this unit is assumed to be negligible.

3.4 **Riparian Vegetation Type**

The Riparian vegetation type occurs along Tallahassee Creek, primarily as a comparatively large, nearly level floodplain bench above the main channel. The



dominant species include tamarisk, plains cottonwood (*Populus sargentii*), peach-leaf willow (*Salix amygdaloides*), and rubber rabbitbrush. Since this vegetation type is not proposed to be disturbed, no transects were located. The potential production of native understory vegetation was not rated for this type by the SCS. The forage production potential of this unit is assumed to be negligible.

3.5 Grassland Vegetation Type

Dominant species within this vegetation type include blue grama, tree cholla (*Cylindropuntia imbricata*), and kochia where soils are disturbed by livestock. Transect number 8 was selected to represent this vegetation community in the proposed facility area south of Tallahassee Creek. Slopes were nearly level. Total plant cover was 30.7 percent while bare ground was 66.2 percent. Litter and rock contributed 3.2 percent ground cover. The potential production of native understory vegetation in normal years is typically 1,100 pounds per acre of air-dry vegetation (SCS 1995). The soil existing on site has a higher percent of coarse (gravel) fragment content than the soil mapped for the area by the SCS. Therefore the potential production is believed to be approximately 800 pounds per acre for this site.

3.6 Pinyon-Juniper/Grassland Vegetation Type

This vegetation type occurs to the south of Tallahassee Creek. It is similar to the grassland type but contains a pinyon-juniper component and a higher percent of cover by tree cholla. Dominant species include one-seed juniper, blue grama, tree cholla, plains prickly pear, and kochia. The slope is 1 to 2 percent on a southerly aspect. Total plant cover (transect number 9) was 29.0 percent, cover by litter and rock approximately 5.2 percent, and bare ground was 65.8 percent. Average tree heights were 12 feet and shrub heights averaged approximately 2.5 feet. Transect number 6 was run along the disturbed floor of the existing sandstone quarry.

The potential production of native understory vegetation in normal years is typically 1,100 pounds per acre of air-dry vegetation (SCS 1995). Given the amount of rock outcrop present and coarse (gravel) fragments in the soil profile on the areas proposed to be disturbed, the potential production is believed to be a maximum of 425 pounds per acre for this site based on a comparison of cover percentages with the grassland type.

3.7 Grassland/Improved Pasture Vegetation Type

This vegetation type occurs within the permit area south of Tallahassee Creek and to the west of Phase IA in the gravel bar in Phases II and III. The dominant vegetation species in this vegetation type include both native and introduced pasture grasses. Positive identification of vegetation species was not possible due to the early spring time of the field work and the over grazing impact.

TABLEJ-1Vegetation Species in Proposed Permit Area

Communities

Pinyon-Juniper Shrub/Grassland Stream Wash Riparian Grassland Pinyon-Juniper/Grassland Grassland/Improved Pasture

Pinyon/Juniper Slope (Granite Quarry Area)

Dominants

Bouteloua gracilis	blue grama
Cercocapus montanus	mountain mahogany
Cylindropuntia imbricata	tree cholla
Guterriezia sarothrae	broom snakeweed
Juniperus monosperma	one-seed juniper
Opuntia polyacantha	plains pricklypear
Pinus edulis	pinyon pine
Yucca glauca	soapweed

Other Species

Aristida sp.	three-awn
Astragalus sp.	vetch
Bouteloua curtipendula	side-oats grama
Chrysothamnus nauseosus	rubber rabbitbrush
Echinocereus triglochidiatus	claret-cup hedghog
Eriogonum sp.	sulfur flower
Schizachyrium scoparium	little bluestem

Drainage Bottom

fringed sagebrush
cheatgrass
curly-cup gumweed
hairy golden aster
golden currant
wax currant
western snowberry
mullein



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Tallahasee Creek (Sandy Wash Area)

Dominants (Primarily Floodplain Above Main Channel)

` *	1 /
Atriplex canescens	four-winged saltbush
Chrysothamnus nauseosus	rubber rabbitbrush
Cirsium sp.	thistle
Euphorbia esula	leafy spurge (common along cut bank)
Glycyrrhiza lepidota	wild licorice
Kochia scoparia	kochia
Salsola iberica	Russian thistle
Solanum rostratum	buffalobur
Tamarix ramosissima	tamarisk (most as isolated individuals)
Verbascum thapsus	mullein

Large Floodplain Bench Above Main Channel (Designated "Riparian")

rubber rabbitbrush
plains pricklypear
plains cottonwood (most 3-6" dbh; few 10-12" dbh)
peach-leaf willow (some mature specimens, 12-18" dbh)
Russian thistle
tamarisk (some in dense thickets)
dandelion
clover
nettle

Stream Crossing Area for Granite Quarry

Vegetation cover very sparse, a few scattered annual weeds and *Tamarix ramosissima* tamarisk

Verbascum thapsus mullein

Small Quarry Area (Sandstone)

Upland Ledge

Vegetation similar to PJ in big quarry area

Drainage Bottom Through Quarry

(rock outcrop on both sides and numerous boulders in bottom)							
Artemisia frigida	fringed sagebrush (few)						
Artemisia ludoviciana	Lousiana sagewort (few)						
Atriplex canescens	four-winged saltbush (dom)						
Bouteloua gracilis	blue grama (dom)						
Bromus tectorum	cheatgrass (dom)						
Cylindropuntia imbricata	tree cholla (dom)						
Eriogonum sp.	sulfur flower (few)						
Guterriezia sarothrae	broom snakeweed						
Heterotheca villosa	hairy golden aster (dom)						
Juniperus monosperma	one-seed juniper (few)						
Kochia scoparia	kochia (dominant herbaceous species)						
Opuntia polyacantha	plains pricklypear (few)						
Pinus edulis	pinyon pine (few, in upper portion only)						
Ptelea trifoliata	hop tree (1)						
Rhus trilobata	skunkbush sumac (few)						
Ribes aureum	golden currant (few)						
Salsola iberica	Russian thistle (few)						
Symphoricarpos occidentalis	western snowberry (few)						

Alluvial Fan Below Small Quarry (heavily grazed)

Dominants

Chrysothamnus nauseosus	rubber rabbitbrush (most heavily hedged, 3-4' tall)
Kochia scoparia	kochia (~ 50% cover by kochia seedlings)
Opuntia polyacantha	plains pricklypear

Creek Area in Vicinity of Small Quarry Crossing Floodplain Above Active Channel

Chrysothamnus nauseosus	rubber rabbitbrush
Opuntia polyacantha	plains pricklypear
Populus sargentii	plains cottonwood (scattered few mature 3-4' dbh)
Salix amygdaloides	peach-leaf willow (scattered few mature 3-4' dbh)

Cutbank of Active Channel

Mostly weedy annuals similar to other crossing area



Exhibit J CMLRB 112 Permit Application Agile Stone Systems, Inc.

Grassland in Plant Area

Dominants

Bouteloua gracilis	blue grama
Cylindropuntia imbricata	tree cholla
Kochia scoparia	kochia (dom. herbaceous where soils disturbed by stock)
Opuntia polyacantha	plains pricklypear
Yucca glauca	soapweed

Other Species

Aristida sp.three-awnArtemisia ludovicianaLousiana sagewortBouteloua curtipendulaside-oats gramaChaenactis douglasiiDouglas chaenactisChrysothamnus nauseosusrubber rabbitbrush (few present - heavily hedged)Lupinus argenteasilver lupine





LINE-INTERCEPT DATA

Project Parkdule	Date 4/21/97	Field Analyst(s)	or Phalan	QA Check
Location/ are Quarry (granite)	Vegetation Type or	Site PJ Slog	~ w/1.4c RD	Control Area 🔲 Study Area 🗌
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otes: Soils

Wildlife

pingon + juniper average 15-20 height CIEMO, + CHAIA Neavily heldged

Total Plant Cover	14.8	1-20	14.87
Litter and Rock	0		07.
Total Cover	14.8		14.8%
Bare ground	85.2		85.2.

LINE-INTERCEPT DATA

Project Parkoale	Date 4/21/97	Field Analyst(s)	m Phelan	QA Check
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Notes: Soils Wildlife Pinzon + junper averyed 15-20 inheight CEMO heavily hedged Mildlife Total Plant Cover 10.0 10 1070 Litter and Rock 24.0 " 2470 Bare ground 66.0 " 66.070 Bare ground 66.0 " 66.070



Project Parkdale	Date 4/21/97	Field Analyst(s)	M. Philes	QA	Check
Location Large Quorry (granite)	Vegetation Type o	r Site PJ/ Rock	Quterop	Control Area] Study Area []
	itationwr(w (290			Transec	t Length 190'

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otes:	Soils	Total Plant Cover	2.7	2.7%
	Wildlife	Litter and Rock	87.0	87.0%
	pinger + junper trees areveged 15-20'inheight	Total Cover	897	89.77.
	Constant is bring to be bring	Bare ground	10.3	10.3%
	CIEMO averaged 2-3' in height + heavily helged	<u></u>		



Project_Parkdalc	Date 4/21/97	Field Analyst(s)_	M. Philan	QA Check
Location Alluvial fan W of has Quer	Vegetation Type o	r site Shrub	Grassland	Control Area 🔲 Study Area 🗌
Transect No. 4 Orie	ntation $\omega(260^{\circ})$		Aspect SS	Transect Length 100'

		Species	г	· · · ·				Int	erce	tas	(Dis	tance	<u></u>										Total		%	
	Species	_Code	1	2	3	4	5	_6	7	8	9		11	12	13	14	15	16	17	18	19	20	Dist.		Cover	Ht.
1	Boutelona 	BOGA	22.0	1.5												[<u> </u>		23.5	102	23.5%	
2	Cylindroputia	STITT	08								 					!	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	0.8		0.87	+1
3	Gut ierrizia <u>sarottiree</u>	<u>Gusz</u>	<u>o</u> .2			=_		<u> </u>] 	<u> </u>						 			 -,		0.2	·.	0.27.	1.0
4	Juniperus	JUMO	<u>4</u> .0				 			<u> </u>]]		<u> </u>			<u> </u>	<u> </u>	 		<u> </u>	<u> </u>	년 은 _		4.07-	12'
5	_CANSI ET 23	ATCA	1.5		<u> </u>			اا		<u>`</u> ا	<u> </u>	<u> </u>		<u> </u>			<u> </u>		.I		<u> </u>	<u> </u>	1:5-	···	<u>1 57</u>	<u>i3'</u>
6	Opinia <u>polyerentha</u>	0990	1.0	کروا	03	<u>].0</u>	0.3	0.41			<u> </u>			<u> </u>			.	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	4.0_	,. 	4.07.	1,0'
7	Rochia _	Roer -	1.0	<u>o s</u>	0.3					۱	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	 	<u> </u>	<u> </u>		<u> </u>	<u> </u>	1.8_	 	1.8%	
8		. 		 	!	 	!		 	<u> </u>	!	<u> </u>	<u> </u>	<u> </u>	<u> </u>	 	 	<u> </u>		<u> </u>	 	<u> </u>			╡	╎╴┥
9				!	<u>ا</u>	!	!	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>			ļ	╎╴┥
10		 .]→		!	!	!	<u> </u>					<u> </u>	<u> </u>) 	<u> .</u>	<u> </u>	 -,—	<u> </u>	. <u> </u>	 		<u> </u>	.	4	╡ <u></u>	┥╴┥
11				!	!	!		!	<u> </u>	<u> </u>) 		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	.	↓	↓ <u> </u>	↓
12		 .		۱	<u> </u>	!		<u> </u>		<u> </u>	 		 	<u> </u>	<u> </u>	. <u> </u>	. <u> </u>	<u> </u>	<u> </u>	. <u> </u>		_ 		<u>↓</u>	↓	╡┛╶┥
13				<u> </u>	<u> </u>	!	<u> </u>		 	<u> </u>	 	.		<u> </u>	<u> </u>	. <u> </u>	. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_!		 	·	╎╴╷
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.6				.L	<u> </u>	<u> </u>	.		!		<u> </u>		.	_			_	<u> </u>	<u> </u>	<u> </u>	_ 	_	<u> </u>]	<u> </u>	

lotes: Soils Wildlife Kose seelings numerous in areas w/ sols disturbed by livesbek ATCA neavily redged Total Cover 3 Bare ground 6 (10-15' in height) Total Cover 3 Bare ground 6

Total Plant Cover	35.8	100	35.87
Litter and Rock	0	-	0
Total Cover	35.8	100	35.8%
Bare ground	64.2	1=4	64.270

	L]	INE-INTERCEPT DATA		
Project Parkdale	Date 4/21/97 Fie	eld Analyst(s)	Philan	QA Check
Location Alleria for 12.08 long Querr	Vegetation Type or St	Ite Shrub/Grass	Control Area	Study Area
Transect No. 5 Orien	itation SSE (150°)	Slope (%) <u>2.5</u> ° As	pect <u>s</u> ي Trans	ect Length 100

<u> </u>		Species			·			Int	erce	ept	(Dis	tance	c)										Total		X]
	Species	Code	1	2	3	4	5	6	_7_	8	9	10	11	12	13	14	15	16	17	<u>18</u>	<u>19</u>	20	Dist.	+	Cover	Ht.
1	Boutclouc	Boge	<u>د کا</u>	<u>345</u>	3.0						 	<u> </u>		<u> </u>						<u> </u>	1		21.5	<u>190</u>	21.5%	=_
2	_ DSHLAPPESTUA	CHMA	1.0	<u> </u>	<u> </u>	 				!	!	<u> </u>		 	 		!		 	!	 		_م.ر	· · ·	1.07.	2-3'
3	Atriptus	ATCA	0.3	!	ļ	 					!			<u> </u>	<u> </u>			 					0.3	۱۰ 	0.37.	2-3
4	Countin polyaranthe	OPPO	<u>0.5</u>	03	0,8	0.1	0.4			!	 	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>		<u> </u>		2.1	··	2 70	1:15
5	Cuj. Nie puntie	CYIM_	0.3	·	<u> </u>	 	!	<u> </u>		<u> </u>		<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	.	<u> </u>			<u> </u>	<u> </u> _	03	۱۱ — –	0.37.	2.3
6	Kochia <u>scuparia</u>	Kose_	0.7	1.0	0.7	[<u> </u>	<u> </u>					<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> _</u> _	2.4	•• 	2.47	
7]	ļ]	<u> _</u>	ļ	!	<u> </u>	<u> _ </u>	<u> </u>		 	<u> </u>	 	<u> </u>		 	 	.	<u> </u>				
8				<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	!		 	<u> </u>	 	<u> </u>	<u> </u>	 		<u> </u>	<u> </u>		<u> </u>	<u> </u>]	
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10					<u> </u>	! 		<u> </u>	ļ		<u> </u>			<u> </u>	<u> .</u>	<u> </u>	.I	<u> </u>	<u> </u>	. <u> _</u>	1				l	
1 1		·		<u> </u>	!		<u> </u>	 		<u> </u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>			. <u> </u>	.I					
12					<u> </u>	<u> </u>	<u> </u>		l	 	 	<u> </u>			<u> </u>		.	<u> </u>		<u> </u>	.	<u> </u>	.		,	
13				<u> </u>	.		<u> </u>	<u> </u>	l				<u> </u>	. <u> </u>	<u> _</u> _	<u> </u>	<u> </u>		.	 	,	┇╺┛				
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Notes: Soils

Wildlife

(see notes for Transet 4) CHMCH also hearing hallged

Total Plant Cover	27.6	194	27.67
Litter and Rock	0		0
Total Cover	27.6	(-1	27.67.
Bare ground	72.4	100	72.47

LINE-INTERCEPT DATA

		Analyst(s)		QA Check
Location Small Quarry (limba)	Vegetation Type or Site_	Disturbed	P5 Control	Area 🗌 Study Area 🗌
Transect No. 6 Orien	itation <u>MNE (50°)</u> Slop	pe (#) <u>5-13</u>	Aspect_ <u>Ssw</u>	Transect Length 100'

<u></u>		·		<u> </u>									· .													
		Species	Į –					Int	erce	≥pt	(Dis	tanc	e)										Total		%	
_	Species	Code	1	2	3	4	_ 5	_ 6	7	8	9		11	12	13	14	15	16	17	18	19	20	Dist.	÷	Cover	Ht.
1	Kachia Scopania	Kosc	18.8	0:6	05	0.5							<u> </u>												20.47.	
2	Cylindropentia Impiricate	CYIM	0.5							l	I		۱	l	l	l							0.5	1	057.	
3	Opuntia - Polygenize-	OPPO	<u>0.</u> 8]					 	<u> </u>		l		l	<u> </u>						0.8	11	0.8%	10'
4	rocic	Rock	<u>).</u>]	16.0	1.0	1.0		<u> </u>			!	<u> </u>	I		I	l		I					19.0	"	19.07	
5			<u>a 5</u>							_ <u>·</u>			<u>ا</u>	<u>ا</u>	<u>ا</u>	l		L		<u>آ</u>			0.5	۲ <u>۱</u>	057.	2-3
6	Atriplex	ATCA	0.1	<u>63</u>	0.5	<u>b.z</u>				<u> </u>		<u> </u>	l		l	I	L	l	l	l			1.1	 -	1.17	2.3'
7				ļ						<u> </u>	<u>·</u>			<u> </u>	l	l		l	I	 	<u> </u>				I	
8	·			!						۱ ـ ـ ـ	 		!	<u> </u>	l	۱	I	l	l]		l				
9	·			!	 	<u> </u>					l	<u> _</u>	l	l	l			<u>ا</u>	<u> </u>			ا ^ا				
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11				<u> </u>	<u> </u>						 	 			l	l		L	1	I						
12				!				 		 						L	<u> </u>	1	۱	ا					<u> </u> .	
13				!	!				 		 	<u> </u>		!	<u> </u>		<u> </u>	<u>ا_</u> _	<u> </u>	L	<u> </u>	<u> </u>				
14				!						<u> </u>		 	<u> </u>	<u> </u>			 	L								
15				!	!	!!		'		<u> </u>	<u> </u>	<u> </u>	!	<u> </u> _	<u>].</u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	↓
16			<u> </u>		l	L		[]	L	L	<u> </u>	<u> </u>	<u> _</u>	<u> </u>		<u>ا_</u>	<u> _</u>	<u> </u>		<u>ا_</u>	<u> </u>	1	<u> </u>		\	

Notes:	Soils		Total Plant Cover	23.3	100	23.37.
	Wildlife	Dense stands of Kose seedlings procent at more disturbed		19.0	``	19.07
			Total Cover	423		42.3%
		CHARA & ATCA heavily hedged -	Bare ground	577	••	57.7%



Project_ Parkelale_	Date $\frac{4}{2}$ Field Analyst(s) m P	QA Check
Location Upper ledge in	(which Yegetation Type or Site 25	Control Area 🔲 Study Area 🗍
Transect No. 7	Orientation <u>SSw (220")</u> Slope (8) <u>35-40</u> Aspec	et 5500 Transect Length 100'

	<u></u>	Species	[,	<u>.</u> .	Int	erce	ept	(Dis	tanci	e)	<u> </u>	- -				·				Total		*	
	Species	Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	<u>16</u>	<u> 17 </u>	18	19	20_	Dist.	+	Cover	Ht.
1	Pinns _ edulis_	PIEN	1.0	0.4		<u> </u>							<u> </u>	<u> </u>		<u> _</u>		<u> </u>		<u> </u>	<u> </u>		777	100	1.47	<u>12:3</u>
2	Jusiperus	Jumo	b≥]		<u> </u>					<u> </u>		!	<u> </u>	 		.	 	 	!	<u> </u>		<u>05</u>	10+	0.5%	100
3	Guilierricia _ samethrae	<u>Gusa</u>	0.3	03	0.2	01	0.2	[<u> </u>	l	<u> _</u>		 	 	<u> </u>			 		7.7	к — —	<u>117</u>	1.0'
4	Boutelone - gracilis -	BOGE	<u>0.4</u>	0.1	0.2	0.4	<u>0</u> .4	le.L				<u> </u>		<u> </u>	 			.	<u> </u>	 	<u> _</u>	ļ	1.6	,, 	1.47	=
5	Cerescorous	CEMO	0.7	!	<u> </u>	<u> </u>	ļ	 		ļ		<u> </u>		 	!		<u> </u>	<u> </u>		 	<u> </u>	ļ	2.7_	· •	0.77.	<u>'ک</u> ح'
6	Bouteloux Curtipendula	Boch	2.1	<u> </u>	<u> </u>	ļ	ļ	ļ		<u> </u>		<u> </u>		<u> </u>	ļ	 	. <u> </u>	<u> </u>	 -,	!	<u> </u>	. – –	<u>o.4</u> _	/. 	0.47	·`
7	- <u>Soil-</u>	_ انعک	3.0	1.0	<u> 2 °</u>	3.0	4.0	2 -	4.0	[·		 		!	. <u> </u>	. 		<u> </u>	 - , ,	 	! <u>-</u> _	19.0		19.07.	
8	opuntia Polyacastle	OPPO	<u>0,5</u>	!]	<u> </u>	ļ	 		<u> </u>		<u> </u>	!	!	<u> </u>	. <u> </u>		<u>!</u>	_	. <u> </u>	. <u> </u>	!	<u>2</u> 2		05%	t
9	triglechidistry	ECTR	2.1	}	<u> </u>]	!	 	 	<u> </u>	<u> </u>		 		<u> </u>	. <u> </u>			. <u> </u>	. <u> </u>		!	21-	۰۱ 	0.1%	+
0	Collindropuntin	CYIMI	<u>2</u> 2		<u> </u>	<u> </u>	<u>]_</u>	<u> </u>	<u> </u>		!	. <u> </u>	ļ		<u> .</u>	. 	. <u> </u>		 		<u> </u>	.	03	·	0.37.	1.5'
Ļ	Aristida - <u>Species</u> -	AR'-	0.3	!		<u> </u>	<u> </u>)]	<u> </u>	<u> </u>	· (!	 	 		. -,	. <u> </u>	<u> </u>	<u>. </u>	 -,	 .,	23_	۱۰ 	0.3%	
2			<u> </u>	ا۔ ۔۔			ļ]	ļ_	[. <u> </u>	<u> </u>		!	.			_ <u> </u> _	. <u> </u>	 -,	.			┥	
3					<u> </u>	 	<u> </u>	<u> </u>	<u> </u>		 	. <u> </u>	!	.¦	 	. -	. 	. <u> </u>	 - ,	· 	- <u> </u>	. -			┥・	<u> </u>
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)tes:	Soils	Total Plant Cover	6.9	6.9%
	Wildlife	Litter and Rock	74.1	7+1.12
		Total Cover	81.0	81.02
	SIED+JUMO - 10-15 + tull	Bare ground	19.0	19.07
	CEMO heavily hedged	· · ·		

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	LINE-INTERCEPT DATA	
Project Parkdale	Date 4/22/97 Field Analyst(s) M	Shelan QA Check
Location Plant Aren	Vegetation Type or Site Grassland	Control Area 🔲 Study Area 🗌
Transect No. <u>8</u>	Orientation SSW (225) Slope (%) 0	Aspect N/A Transect Length 100'

		irledal	10			Date	e 4/	221	197	I	'ield	Ana	lyst	(s)	m		She	Jar	\sim			Q#	\ Check			
	Localiton 1- /	ant Ar				Vege									-					ntro.	1 Are	ea [_] :	Stud	y Area	 a
	Transect No			0	rient	tatio	on_ 5	550	(2:	2.5)) 	pe (י ד)_(07		As	pect	54	<u>⁄</u>	······	_ Tra	ansed	st Leng	gth_	$\frac{1}{2}$	
_		Species	I					 	terc	ept	(Dis	tanc	<u>.</u>		<u></u>		····-						Total	·¶	%	Τ-
1	Species	Code	1	2	3	4	_ 5_	6	7	8	9	10	<u>11</u>	12	13	14	15	16	17	18	19	20	Dist.	-÷	Cover	1_
	gracilis_	BUGR_	4.2	<u>0.5</u>	84	05	}	 	<u> </u>	<u> </u>		 	<u> </u>	 	<u> </u>	<u> </u> _	<u> </u>	 			 	<u> </u>	24.0	100	24%	
	Cylindropuntie	CYIM_	22	1.0	1.0		!	!	<u> </u>	!	_!	<u> </u>	!	 	<u> </u>	<u> </u>		!		!	!	<u> </u>	4.0	· · ·	42	ļ
	Open+ia Jodyccantha	OPPD	0.5	0.2	<u> </u>	<u> </u>	!		 	<u> </u>	<u> </u>	<u> </u>	<u> </u>		 	 	 		 	<u> </u>	 		0.7	۲ 	0.7%	þ
	<u>mise forb</u>		0.2	<u> 0.1</u>	!		!		 	 	-!	<u> </u>	.	 	 				 	<u> </u>		<u> </u>	0.3	• 	0.3/0	1
	Artemisia _1 marsia	ARLU	2.2	.]]	<u> </u>	<u> </u>	<u> </u>		<u> </u>	!	. 		<u> </u>	 	<u> </u>		 	<u> </u>	<u> </u>	0:2		0.2%	1.
	Konleria	KOCE	0.3	0.2	0.6	0.3	!	ļ	 	. <u> </u>	_	<u> </u>	 		<u> </u>	 	 	<u> </u>		 	!		1.7.1		1.46	ļ
	rack	Rack_	<u> 0.5</u>	08	<u>0.2</u>	<u>lo 3</u>	0.2	6.6	<u>6.3</u>	<u>اه</u> ا		<u> </u>	 	 	<u> </u>		 	[<u> </u>	 	<u> </u>	<u> </u>	3.2) <u>"</u>	3.2	1
		.			. <u> </u>	<u> </u>	ļ	 		 	_!			<u> </u>	<u> </u>	<u> </u>	 			 		!				4
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	s: Soils															•					it Co		30.6	100	30.6	<u>, L</u>
	Wildlif																				Rock		3.2	"	3.2	<u>.</u> 2
	21	LGR CO	ver	44	N.,	yh a	دح	30	- 4	07.	• .	• 5°	<u>)</u> ~~~	<i>Ф</i> .1	- 44 5			Tot	al C	over	.		33.8		33.5	¥.
		hear of	-			•	-			١								Bai	e gi	coune	d		66.2		66.21	7,

otes:	Soils .	Total Plant Cover	30.6	100	30.66
	Wildlife	Litter and Rock	3.2	"	3.2%
	BUGR cover as high as 30- 40% in some aras	Total Cover	33.8		33.9%
		Bare ground	66.2		66.27.
	where nous cover is priving.		<u></u>	- <u> </u>	

The few CHINCA present in this Vestype nearrily hedged

LINE-INTERCEPT	DATA

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Project Parkale	Date 4/22/97 1	Field Analyst(s)	m. Phelan	QA Check
Location Plant Area	Vegetation Type or	Site PJ/Gr	ass land Control	l Area 🔲 Study Area 🗌
Transect No9 (rientation <u>wsw(290)</u>		Aspect	Transect Length 100

		Species						In	cerce	ept	(Dis	tanc	e)					_					Total		%	
	Species	Code	1	2	3	4	5	_6	7	8	9	10	<u>11</u>	12	13	14	15	16	17	18	19	20	Dist.		Cover	Н
	Boutelond	BOGR	<u>1.0</u>	04	1.2	2.4	3.8				<u> </u>		[<u> </u>		<u> </u>	<u> </u>		9.6	100	9.17.	[-
•	Cylindropuntiu impricate	CYIM_	1.0	<u>0.5</u>	0.4	ļ				l		<u> _</u> _	<u> </u>		l	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	l	<u> </u>	19	h.	1.9%	3-1
	- morosparine	Jamo	6.6		 	! <u> </u>								<u> </u>	I	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	6.6	<u>,</u>	6.67.	12
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	rock		0.2	3.0	15	<u>و م</u> ا	<u> </u>		 	<u> </u>		<u> </u>	 		 	<u> </u>	 	 	<u> </u>	 	<u> </u>	 	5.2	, . 	5.27.	1-
i	Kockeria Cristata	KOCR	0.5	<u> 0,1</u>	0.3	<u> </u>	<u> </u>) 	<u> </u>	<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	 		<u> </u>	<u> </u>	<u> </u>		0.9	<u> </u>	<u> 0.9</u>	1-
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lotes:	Soils	Total Plant Cover	29.0	100	29.02
	Wildlife	Litter and Rock	5.2		5.27
	Piñon + Junger Trees averaged 10-15' in height	Total Cover	34.2		34 2
		Bare ground	65.8		65.87
	BOBR cover as high as 30-40% in some areas w Ance similar to greatlend bench but 10-20% tota		~ g.v.		در الن ال الت الم