## Appendix B

# 2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the Kern Water Bank



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# 2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary for the KERN WATER BANK



SUBMITTED TO:

KernWater Bank Authority

## PREPARED BY:



#### 2013 VEGETATION MONITORING PROGRAM OBSERVATION MONITORING SITES AND LIVESTOCK GRAZING SUMMARY for the KERN WATER BANK

Submitted to:

Kern Water Bank Authority 1620 Mill Rock Way, Suite 500 Bakersfield, CA 93311

Prepared by:

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## Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary

### INTRODUCTION

The Kern Water Bank (KWB) vegetation monitoring program consists of eight permanently established vegetation monitoring sites (OMS), each one located in a representative habitat on the KWB (e.g., canal, ditch, pond, uplands, old farm lands, and conservation lands). The locations of monitoring sites have been unchanged since their establishment in the late 1990's. Their locations are indicated in Figure 1. The primary purpose of monitoring these sites is to provide a qualitative evaluation and documentation of the dynamic nature of the vegetation on the KWB. Data collected and observations made at the monitoring sites are used to help guide vegetation management decisions, particularly in regards to livestock grazing strategies, and to facilitate the application of successful adaptive management strategies for the KWB.

#### METHODS

All eight of the vegetation monitoring sites are visited each quarter by two biologists. The biologists collect data such as the observed plant and animal species, basic weather conditions, general vegetation conditions, and other pertinent information. Lastly, photographs from all four cardinal directions (North, East, West, and South) are taken to provide a visual representation of the conditions encountered at each site. This approach has resulted in many years of successive photographic data that help to illustrate the dynamic nature of the KWB. The data collected from each observation monitoring site is provided as Attachment 1.

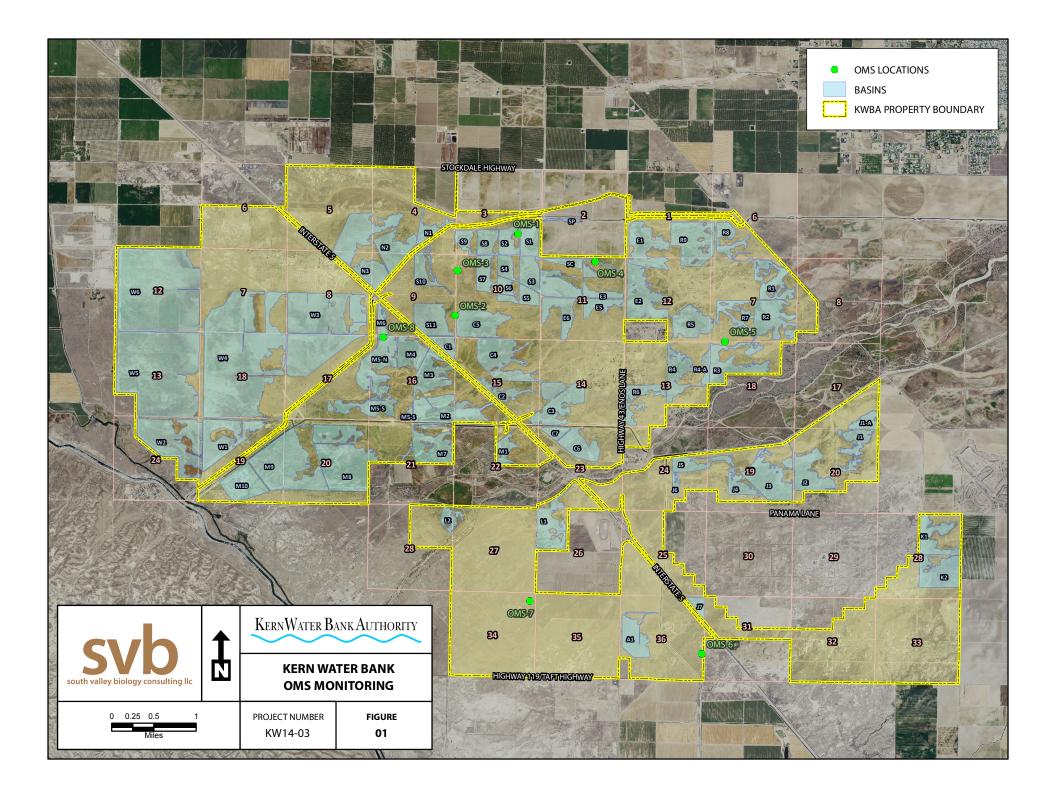
#### **RESULTS AND DISCUSSION**

Rainfall during the 2013 rain year (October 1, 2012 - September 30, 2013) for the KWB was approximately 3.13 inches (48% of normal). This marked the second successive below-average rainfall year. However, unlike what was observed during the 2012 rain year (October 1, 2011 - September 30, 2012) that brought very dry and very cold early conditions in November, December, and January that resulted in very little germination of vegetation, the 2013 rain year brought slightly more rain during the early months when plants are growing. More importantly, there were fewer frost days in 2013 so plants that germinated were not killed by frost. This allowed for early germination and growth of plants (Photograph 1); however, 2013 was very dry for the remainder of the year and vegetation did not become excessively dense (Photograph 2). One positive result of this rain pattern was that it contrasted significantly with the pattern in 2012 where a wet March and April resulted in tremendous Russian thistle (*Salsola tragus*) problems. Although Russian thistle growth did occur in 2013, it was much easier to manage and vegetation management including mowing and cattle grazing helped to lessen the impacts of Russian thistle over much of the KWB (Photographs 3 and 4).

Due to the presence of large amounts of standing vegetation present throughout much of the KWB, especially in the recharge areas at the end of the 2012 season, cattle grazing continued on the KWB in most sectors into early 2013. For the first couple of months in 2013, cattle were still mainly eating the prior season's growth. Once herbaceous vegetation was growing in 2013, grazing was monitored to make sure the appropriate level of grazing was occurring. SVB biologists met with the grazer (RCJ Cattle Company) on February 5, 2013 to observe all areas where cattle were grazing and formulate a strategy for adjusting cattle numbers in the coming weeks. This is always a challenging task as it is difficult to predict what the precipitation might be more than a few days into the future.

It was determined that for the areas that were being grazed (i.e., the North, West, Strand, Main, and South Areas), the current grazing levels appeared to be appropriate and no significant changes would likely be needed for several weeks in the Main, West and Strand Areas, as these areas still had abundant rank vegetation present, especially in some of the recharge basins (Photographs 5 and 6). However, cattle would need to be removed in the coming weeks from the North Area and cattle numbers would need to be reduced sharply in the South Area. Photographs 7 - 10 help illustrate conditions in some of the areas at or near the conclusion of the grazing season. Figure 2 illustrates the number of cattle, expressed in Animal Units or AU (an AU is one adult cow and one calf), that were present in an area for each month in 2013.

The last cow was removed from the KWB within the West Area in December 2013. At that time, it was decided that there was no need to continue grazing any of the areas and a "watch and see" strategy would be in place to monitor the precipitation and subsequent growth of vegetation. By the end of March 2014, very little rain had fallen. Only 1.87 inches of rain had fallen and almost no evidence of germination or growth of vegetation could be found. The exceptions were in large portions of the Strand Area and in the South Area. Russian thistle had begun to germinate in sufficient quantity to be of concern that if late rains in April and May were to occur, this plant may flourish similarly to what was observed in 2012. As a result, it was determined that cattle would be turned out in both of these areas in an attempt to try to minimize the growth and maturation of this troublesome weed. At the time of the completion of this report (May 23, 2014), the cattle have definitely grazed heavily on the young Russian thistle plants, and it will be interesting to see how effective this grazing effort is at reducing the growth and seed-set of Russian thistle in 2014.





Photograph 1. Herbaceous vegetation in a dry pond basin on March 28, 2013.



**Photograph 2**. Same area as shown in Photograph 1 on June 25, 2013. Vegetation did not reach excessively high density and heights from a combination of low rainfall and managed cattle grazing.



**Photograph 3**. Heavily infested area with Russian thistle on August 28, 2012. This was a common site in 2012 over much of the KWB.



**Photograph 4**. Same area as shown in Photograph 3 on June 25, 2013. A combination of lower late rains, early cattle grazing, and selected areas of mowing, combined to allow for a much better open habitat over much of the KWB in 2013.

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**Photograph 5**. Cattle grazing in the Strand Area in July 2013. The Strand Aera often experiences some of the densest rank vegetation build up. Cattle will eat the dry remains of many of these plants, helping to open the habitat up for native wildlife.



**Photograph 6**. One of the recharge ponds in the West Area with dense rank vegetation on July 5, 2013. Cattle remained in the West Area throughout the entire season in 2013 in an effort to knock down the dense plants.

2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary Report for the Kern Water Bank South Valley Biology Consulting LLC



**Photograph 7**. The Strand Area on September 27, 2013 shortly after cattle grazing had concluded for the season.



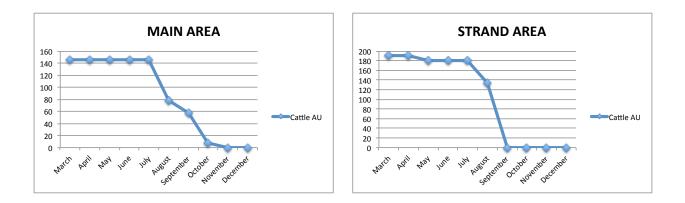
**Photograph 8**. Pond basin in the Main Area on September 27, 2013. Cattle were removed the following month in October 2013.

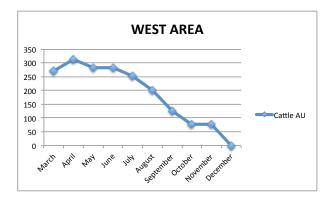


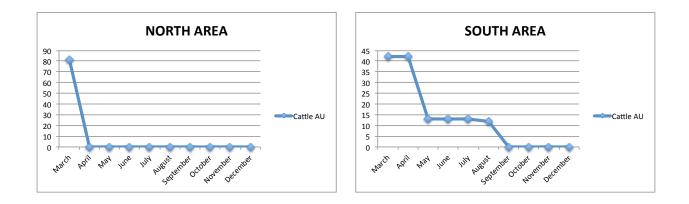
**Photograph 9**. South Area on June 25, 2013. Only 14 cows and calves were present and all cattle were removed by the middle of September 2013.



**Photograph 10**. Same area as shown in Photograph 9 on September 27. 2013, just after cattle were removed.







**Figure 2**. Charts showing the number of cattle, expressed as an Animal Unit (AU) which is one adult cow and one calf, that were present in each area by month during 2013.

2013 Vegetation Monitoring Program Observation Monitoring Sites and Livestock Grazing Summary Report for the Kern Water Bank South Valley Biology Consulting LLC

## **ATTACHMENT 1**

Kern Water Bank 2013 Observation Monitoring Program Site Observations

#### LOCATION INFORMATION

LOCATION: OMS-1 SECTION: 3 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6181490, 2313744 NUMBER OF ACRES: 40 VEGETATION TYPE: EMERGENT WETLAND SPECIES PRESENT SITE TYPE: POND BASIN/POND LITTORAL ZONES

	SURVEY DATE: 03/28/2013	NORTH	EAST	SOUTH	WEST
1ST QUARTER	TIME: 11:48 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.03 IN WIND DIRECTION: NW WIND VELOCITY: 3 MPH TEMPERATURE: 75 F HUMIDITY: 45% NOTES: DENSE & SHORT STAND OF CRE WILDLIFE PRESENT: CALIFORNIA GROU PLANTS PRESENT: AMSINCKIA MENZIES SALIX GOODDINGII, TYPHA LATIFOLIA	ND SQUIRREL, LOGGERHEAD	SHIRKE, MOURNING DOVE, N		UTARIUM, RUMEX CRISPUS,
		NORTH	EAST	SOUTH	WEST
2ND QUARTER	SURVEY DATE: 06/25/2013 TIME: 11:20 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 3.13 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 83 F HUMIDITY: 22%				
7	NOTES: CALIFORNIA GROUND SQUIRRE WILDLIFE PRESENT: BARN OWL, LOGGE PLANTS PRESENT: DISTICHILIS SPICATA	RHEAD SHIRKE, MOURNING D	OVE		A
3RD QUARTER	SURVEY DATE: 09/27/2013 TIME: 10:30 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 5 MPH TEMPERATURE: 69 F HUMIDITY: 34%	NORTH	EAST	SOUTH	WEST
ŝ	NOTES: KANGAROO RAT BURROWS WILDLIFE PRESENT: CALIFORNIA GROU PLANTS PRESENT: ELEOCHARIS MACRO			HISMUS ARABICUS	
4TH QUARTER	SURVEY DATE: 11/15/2013 TIME: 9: 30 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 8 MPH TEMPERATURE: 61 F HUMIDITY: 50%	NORTH	EAST	SOUTH	WEST
4TI	NOTES: NUMEROUS CALIFORNIA GROU WILDLIFE PRESENT: BLACK PHOEBE, CA PLANTS PRESENT: ELEOCHARIS MACRC	LIFORNIA GROUND SQUIRREL	, HOUSE FINCH, MOURNING	DOVE	



#### LOCATION INFORMATION LOCATION: OMS-2 SECTION: 9 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6177540, 2308574 NUMBER OF ACRES: >1 VEGETATION TYPE: EMERGENT WETLAND SPECIES PRESENT/MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS SITE TYPE: DITCH BANK/DITCH BOTTOM

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		NORTH	EAST	SOUTH	WEST
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	HUMIDITY: 20%				a las a sure
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	SUBVEY DATE: 09/27/2013	NORTH	EAST	SOUTH	WEST
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#### LOCATION INFORMATION

LOCATION: OMS-3 SECTION: 10 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6177656, 2311449 NUMBER OF ACRES: 80 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/DOMINATED BY RUSSIAN THISTLE AND/OR PRICKLY LETTUCE SITE TYPE: UPLAND-OLD FARM FIELD

	SURVEY DATE: 03/28/2013	NORTH	EAST	SOUTH	WEST
	TIME: 12:00 PM			+	
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AF	WIND VELOCITY: 5 MPH				The second second second
	TEMPERATURE: 76 F	and the second s			A STATE OF STATE
ST QUARTER	HUMIDITY: 42%	- Marine			
1S	NOTES: NO NEW TUMBLEWEED AT TH				
	WILDLIFE PRESENT: ROADRUNNER	IIS TIME, MAINT OLD TOMBLEWE		ING, I EW SCALLERED RANG	
	PLANTS PRESENT: BROMUS RUBENS,	ERODIUM CICUTARIUM, HIRSCH	FELDIA INCANA, HORDEUM	MURINUM SSP. LEPORINUM,	, LASTHENIA CALIFORNICA,
	SCHISMUS ARABICUS, SISYMBRIUM IF	RIO			
		NODTU	FACT	COLITIL	WECT
	SURVEY DATE: 06/25/2013	NORTH	EAST	SOUTH	WEST
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Π 1	TEMPERATURE: 73 F	and the second se	and the second se	The second se	
Ø	HUMIDITY: 20%	and the second second			
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2	NOTES: DEAD TUMBLEWEED DRIFTS.	SITE HAS BEEN MOWED SINCE L	AST QUARTER. KANGAROO F	RAT BURROWS PRESENT	
	WILDLIFE PRESENT:				
	PLANTS PRESENT: BROMUS RUBENS,	SCHISMUS ARABICUS			
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3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29%			SOUTH	WEST
<b>3RD QUARTER</b>	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM	US AND BARE GROUND. SPARSE	KANGAROO RAT BURROWS	SOUTH	WEST
3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29%	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH	KANGAROO RAT BURROWS ED LIZARD		
3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE,	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH	KANGAROO RAT BURROWS ED LIZARD		
3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAN	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAL SURVEY DATE: 11/15/2013	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH	KANGAROO RAT BURROWS ED LIZARD		
3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, J PLANTS PRESENT: ERODIUM CICUTAI	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD QUARTER	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, J PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 68 F HUMIDITY: 40%	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE EAST	PORINUM, SCHISMUS ARABI	cus
3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 68 F HUMIDITY: 40% NOTES: DEAD TUMBLEWEEDS. CHOPP	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE EAST	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, I PLANTS PRESENT: BLACK PHOEBE, I PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 68 F HUMIDITY: 40% NOTES: DEAD TUMBLEWEEDS. CHOPI	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE EAST	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, PLANTS PRESENT: BLACK PHOEBE, PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 68 F HUMIDITY: 40% NOTES: DEAD TUMBLEWEEDS. CHOPP	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE EAST	PORINUM, SCHISMUS ARABI	cus
R 3RD	TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 70 F HUMIDITY: 29% NOTES: MOSTLY SMALL, DRY SCHISM WILDLIFE PRESENT: BLACK PHOEBE, I PLANTS PRESENT: BLACK PHOEBE, I PLANTS PRESENT: ERODIUM CICUTAI SURVEY DATE: 11/15/2013 TIME: 10:10 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 68 F HUMIDITY: 40% NOTES: DEAD TUMBLEWEEDS. CHOPI	US AND BARE GROUND. SPARSE MOURNING DOVE, SIDE-BLOTCH RIUM, HIRSCHFELDIA INCANA, H	KANGAROO RAT BURROWS ED LIZARD IORDEUM MURINUM SSP. LE EAST	PORINUM, SCHISMUS ARABI	cus



#### LOCATION INFORMATION

LOCATION: OMS-4 SECTION: 11 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6186254, 2311943 NUMBER OF ACRES: 10 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS SITE TYPE: DITCH BANK/DITCH BOTTOM

1ST QUARTER	SURVEY DATE: 03/28/2013 TIME: 11:30 AM MONITOR(S): J. JONES RAINFALL TO DATE: 3.03 IN WIND DIRECTION: NW WIND VELOCITY: 5 MPH TEMPERATURE: 75 F HUMIDITY: 46% NOTES: NUMEROUS SMALL TUMBLEWE	NORTH	EAST	SOUTH	WEST
	WILDLIFE PRESENT: RAVENS PLANTS PRESENT: AMSINCKIA MENZIE: RUMEX CRISPUS, SALSOLA TRAGUS, SIS		M CICUTARIUM, HIRSCHFELDI	A INCANA, HORDEUM MURIN	IUM SSP. LEPORINUM,
2ND QUARTER	SURVEY DATE: 06/25/2013 TIME: 11:35 AM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 3.13 IN WIND DIRECTION: N WIND VELOCITY: 7 MPH TEMPERATURE: 84 F HUMIDITY: 18%	NORTH	EAST	SOUTH	WEST
2N	NOTES: SITE IS MOWED. VERY LITTLE VE WILDLIFE PRESENT: MOURNING DOVE, PLANTS PRESENT: HELIOTROPIUM CUR	WESTERN KINGBIRD	N .		
3RD QUARTER	SURVEY DATE: 09/27/2013 TIME: 12:05 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 5 MPH TEMPERATURE: 73 F HUMIDITY: 27%	NORTH	EAST	SOUTH	WEST
3RI	NOTES: MOSTLY BARE GROUND FROM WILDLIFE PRESENT: PLANTS PRESENT: BASSIA HYSSPOIFOL		ICUM, SALSOLA TRAGUS		
4TH QUARTER	SURVEY DATE: 11/15/2013 TIME: 11:00 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N/A WIND VELOCITY: 0 MPH TEMPERATURE: 64 F HUMIDITY: 42%	NORTH	EAST	SOUTH	WEST
4Th	NOTES: SMALL TUMBLEWEED PLANTS / WILDLIFE PRESENT: PLANTS PRESENT: BROMUS RUBENS, H				



#### LOCATION INFORMATION LOCATION: OMS-5 SECTION: 7 TOWNSHIP/RANGE: 30S/26E COORDINATES (CA5-NAD83): 6194387, 2306947 NUMBER OF ACRES: 50 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS/RUDERAL VEGETATION SITE TYPE: UPLAND-OLD FARM FIELDS

	SURVEY DATE: 03/28/2013	NORTH	EAST	SOUTH	WEST
	TIME: 11:15 AM				
	MONITOR(S): J. JONES				
<u>~</u>	RAINFALL TO DATE: 3.03 IN				
	WIND DIRECTION: NW	a manufaction	States and the second second second second	and a second sec	
	WIND VELOCITY: 3 MPH		A CONTRACTOR	State State	and the second s
A	TEMPERATURE: 73 F	Median		and the second second	
ð	HUMIDITY: 46%	and the second sec	SUMPLY AND STREET		and the second
ST QUARTER	10MiD11.40%		The second second		
14	NOTES: SPARSE COVER OF HERBACEO	US PLANTS WITH LAST SEASON	N'S TUMBI EWEED		
	WILDLIFE PRESENT: BLACK-TAILED JAG				
	PLANTS PRESENT: AMSINCKIA MENZIE	ESII, BROMUS RUBENS, ERODIU	M CICUTARIUM, HIRSCHFELDI	A INCANA, SALSOLA TRAGU	IS, SCHISMUS ARABICUS
	SURVEY DATE: 06/25/2013	NORTH	EAST	SOUTH	WEST
	TIME: 11:50 AM				
	MONITOR(S): J. JONES, Z. BRISCO				
E E	RAINFALL TO DATE: 3.13 IN				
L L	WIND DIRECTION: N	In the second			Charles and the second se
A	WIND VELOCITY: 5 MPH			-	
	TEMPERATURE: 86 F		and the second second	a and the second second	
ŏ	HUMIDITY: 18%				
2ND QUARTER					
	NOTES: SEVERAL KANGAROO RAT BUR	ROWS. OLD TUMBLEWEED DRI	IFTS SCATTERED ABOUT		
	WILDLIFE PRESENT:				
	PLANTS PRESENT: AMSINCKIA MENZIE	ESII, HIRSCHFELDIA INCANA, SA	ALSOLA TRAGUS, SCHISMUS AF	RABICUS	
		NORTH			•
	SURVEY DATE: 09/27/2013	NORTH	EAST	SOUTH	WEST
	SURVEY DATE: 09/27/2013 TIME: 12:30 PM	NORTH	EAST	SOUTH	WEST
	TIME: 12:30 PM	NORTH	EAST	SOUTH	WEST
R	TIME: 12:30 PM MONITOR(S): J. JONES	NORTH	EAST	SOUTH	WEST
TER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN	NORTH	EAST	SOUTH	WEST
ARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW	NORTH	EAST	SOUTH	WEST
UARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH	NORTH	EAST	SOUTH	WEST
QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F	NORTH	EAST	SOUTH	WEST
RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH	NORTH	EAST	SOUTH	WEST
<b>3RD QUARTER</b>	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F	1000 - 2000 1000 - 2000	EAST	SOUTH	WEST
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR	URROWS EL		SOUTH	WEST
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B	URROWS EL		SOUTH	WEST
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR	URROWS EL		SOUTH	WEST
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMSINCKIA MENZIE	URROWS EL		SOUTH	WEST
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
3RD QUARTER	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 63 F	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 63 F	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 63 F HUMIDITY: 36% NOTES: ACTIVE KANGAROO RAT BURR WILDLIFE PRESENT: RED-TAIL HAWK	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND VELOCITY: 5 MPH TEMPERATURE: 63 F HUMIDITY: 36% NOTES: ACTIVE KANGAROO RAT BURR	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		
e e	TIME: 12:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 6 MPH TEMPERATURE: 75 F HUMIDITY: 25% NOTES: SCATTERED KANGAROO RAT B WILDLIFE PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR PLANTS PRESENT: AMERICAN KESTR SURVEY DATE: 11/15/2013 TIME: 11:20 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 63 F HUMIDITY: 36% NOTES: ACTIVE KANGAROO RAT BURR WILDLIFE PRESENT: RED-TAIL HAWK	URROWS EL ESII, SALSOLA TRAGUS, SCHISM	IUS ARABICUS		



#### LOCATION INFORMATION LOCATION: OMS-6 SECTION: 36 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83): 6192992, 2287399 NUMBER OF ACRES: 160 VEGETATION TYPE: MIXED ANNUAL GRASSLAND WITH SCATTERED SHRUBS/SCATTERED SHRUBS-BARE SOIL SITE TYPE: UPLAND-SENSITIVE HABITAT

1ST QUARTER	SURVEY DATE: 03/25/2013 TIME: 1:45 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.03 IN WIND DIRECTION: NW WIND VELOCITY: 10 MPH TEMPERATURE: 82 F HUMIDITY: 28% NOTES: PLANTS & GRASSES ARE SHORT WILDLIFE PRESENT: PLANTS PRESENT: ATRIPLEX POLYCAR CALIFORNICA, LEPIDIUM NITIDUM, PR	PA, BROMUS RUBENS, ERODIUM	I CICUTARIUM, GILIA TRICOL	
2ND QUARTER	SURVEY DATE: 06/25/2013 TIME: 12:30 PM MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 3.13 IN WIND DIRECTION: N WIND VELOCITY: 5 MPH TEMPERATURE: 85 F HUMIDITY: 18% NOTES: SMALL AMOUNT OF KANGARG WILDLIFE PRESENT: MOURNING DOVI PLANTS PRESENT: ATRIPLEX POLYCAR	E		WEST
3RD QUARTER	SURVEY DATE: 09/27/2013 TIME: 1:30 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 3 MPH TEMPERATURE: 78 F HUMIDITY: 23% NOTES: SCATTERED ACTIVE KANGARC WILDLIFE PRESENT: BALCKTAILED JAC PLANTS PRESENT: AMSINCKIA MENZII CUS	CKRABBIT, RAVEN		WEST
4TH QUARTER	SURVEY DATE: 11/15/2013 TIME: 12:20 PM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 10 MPH TEMPERATURE: 64 F HUMIDITY: 34% NOTES: ACTIVE KANGAROO RAT BURRO WILDLIFE PRESENT: LOGGERHEAD SH PLANTS PRESENT: ATRIPLEX POLYCAR	IRKE		

#### LOCATION INFORMATION

LOCATION: OMS-7 SECTION: 34 TOWNSHIP/RANGE: 30S/25E COORDINATES (CA5-NAD83):612246, 2290740 NUMBER OF ACRES: 160 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS SITE TYPE: UPLAND-SENSITIVE HABITAT/UPLAND-OLD FARM FIELDS

		NODTU	EACT	COLITIL	WECT
	SURVEY DATE: 03/25/2013	NORTH	EAST	SOUTH	WEST
	TIME: 1:05 PM MONITOR(S): J. JONES	174			
~	RAINFALL TO DATE: 3.03 IN				
ST QUARTER	WIND DIRECTION: NW		A TRANSPORT OF THE TAX AND		
R	WIND VELOCITY: 8 MPH		1		· ·
۱ <i>۲</i>	TEMPERATURE: 83 F	And the second se		and the second second	
	HUMIDITY: 26%	and the second s	and the second second		Carlo Carlos Carlos
S					
	NOTES: LAST SEASON'S DRIED TUMBLEWED DON		ALL PLANT SPECIES ARE SHORT, LESS T	HAN 4-5 INCHES TALL. SEVERAL ACTIV	VE KANGAROO RAT BURROWS
	WILDLIFE PRESENT: LOGGERHEAD SHI PLANTS PRESENT: AMSINCKIA MENZIE				
	ARABICUS	SII, DIOMOS RODENS, ERODIC	IN CICOTANION, HONEDOWN	NONINOW SSI. EEI ONINOW,	SAESOLA MAGOS, SCHISHIOS
			1		
	SURVEY DATE: 06/25/2013	NORTH	EAST	SOUTH	WEST
~	MONITOR(S): J. JONES, Z. BRISCO RAINFALL TO DATE: 3.13 IN	AT			T
μ	WIND DIRECTION: N				La la Nill
AR	WIND VELOCITY: 5 MPH	Testing of the	and and a second second		
N N	TEMPERATURE: 86 F		and the second second		
	HUMIDITY: 18%			and the second second	
2ND QUARTER					
	NOTES: KANGAROO RAT BURROWS WILDLIFE PRESENT:				
	PLANTS PRESENT: HORDEUM MURINU	M SSP. LEPORINUM, SCHISMU	S ARABICUS		
		····			
		NORTH	EAST	SOUTH	
	SURVEY DATE: 09/27/2013	NORTH	EAST	300111	WEST
	TIME: 12:50 PM		EAST	30011	WEST
æ	TIME: 12:50 PM MONITOR(S): J. JONES		EASI	30011	WEST
TER	TIME: 12:50 PM		EASI	30011	WEST
ARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN			30011	WEST
QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW			30011	WEST
D QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH			30011	WEST
<b>3RD QUARTER</b>	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24%	The second secon			
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF	The second secon			
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24%	RROWS. MOSTLY DRIED SCHISMUS A	ND BARE GROUND FROM GRAZING		
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK	RROWS. MOSTLY DRIED SCHISMUS A	ND BARE GROUND FROM GRAZING		
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTIL, S	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING		
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013	RROWS. MOSTLY DRIED SCHISMUS A	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTIL, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTIL, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH TEMPERATURE: 65 F	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTIL, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH	ROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
4TH QUARTER 3RD QUARTER	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH TEMPERATURE: 65 F HUMIDITY: 40%	RROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTIL, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH TEMPERATURE: 65 F	RROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH TEMPERATURE: 65 F HUMIDITY: 40% NOTES: MANY ACTIVE KANGAROO RAT	RROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS NORTH	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.
	TIME: 12:50 PM MONITOR(S): J. JONES RAINFALL TO DATE: 3.13 IN WIND DIRECTION: NW WIND VELOCITY: 8 MPH TEMPERATURE: 77 F HUMIDITY: 24% NOTES: SEVERAL ACTIVE KANGAROO RAT BUF WILDLIFE PRESENT: HORNED LARK PLANTS PRESENT: DATURA WRIGHTII, S SURVEY DATE: 11/15/2013 TIME: 1:45 AM MONITOR(S): J. JONES RAINFALL TO DATE: 0.97 IN WIND DIRECTION: NW WIND VELOCITY: 28MPH TEMPERATURE: 65 F HUMIDITY: 40% NOTES: MANY ACTIVE KANGAROO RAT WILDLIFE PRESENT: RAVENS	RROWS. MOSTLY DRIED SCHISMUS A SALSOLA TRAGUS, SCHISMUS NORTH	ND BARE GROUND FROM GRAZING ARABICUS	. ONLY TUMBLEWEEDS ARE DRIED	DRIFTS AGAINST PIPES, POLES, ETC.



#### LOCATION INFORMATION LOCATION: OMS-8 SECTION: 16 TOWNSHIP/RANGE: 305/25E COORDINATES (CA5-NAD83): 6173009, 2307209 NUMBER OF ACRES: 40 VEGETATION TYPE: MOSTLY DOMINATED BY ANNUAL GRASSES AND WEEDS/NON-NATIVE PLANTS SITE TYPE: POND BASIN

