Revegetation Monitoring for Land Removed from Irrigation; Laws Parcels 090, 095, 129 and Abandoned Agricultural Land Parcel 094

(LADWP November 2022)

Introduction

The Revegetation Plan for Land Removed from Irrigation; Laws Parcels 090, 095, 129 and Abandoned Agricultural Land Parcel 094 established goals to restore native vegetation on City of Los Angeles (City) property in the Owens Valley near Laws, California (LADWP 2003) (2003 Plan). The 2003 Plan uses vegetative cover and species composition of adjoining or nearby vegetation parcels for guidance and prescribes goals, schedules, and monitoring protocols for Laws parcels 090, 094, 095, 129, and a portion of 118 that surrounds LAW129 (Figure 1). Goals and species lists in the 2003 Plan were developed from Natural Resources Conservation Service (NRCS), Ecological Site Descriptions, and a subset of nearby parcels extracted from the Los Angeles Department of Water and Power's (LADWP) 1984-1987 vegetation inventory data for City lands in the Owens Valley. The goals, as stated in the 2003 Plan, are 10% native perennial vegetation cover, composed of at least 10 different native species (including a native grass) for LAW 090, 094, 095, and 10% native perennial vegetation cover, composed of at least eight different native perennial species (including a native grass) for LAW129 and a portion of LAW118. Additionally, the 2003 Plan stated that once the 253 acres (Table 1) met the established success criteria, the parcels would have to persist for an additional two years with no onsite revegetation activities, including irrigation. Following the two-year rest, the parcels will be reevaluated to determine if the parcels still meet the established goals as outlined in the 2003 Plan. If a parcel meets the established goals after the two-year rest, no further revegetation efforts will be required and the project will be considered complete.

Table 1. Name and acreages of parcels listed in the 2003 Plan for revegetation.

Parcel	Acres
LAW090	101
LAW094	40
LAW095	46
LAW129	47
LAW118 portion surrounding 129	19
TOTAL	253

To date, LADWP has acted in good faith in implementing the 2003 Plan, putting forth significant effort and expense to fulfill the project goals. Some of the efforts include purchasing two greenhouses, one in 2009 and another in 2012, with a capacity of propagating up to 18,000 native plants twice a year for spring and fall plantings. Additionally, buried drip irrigation has been installed across all 253 acres to provide irrigation for the out-plantings while limiting the amount of weedy growth and herbivory to the irrigation lines. Prior to the installation of the two LADWP greenhouses and installation of buried drip irrigation, revegetation efforts for this project were largely unsuccessful.

The initial planting for the majority of the 253 acres was completed by the fall 2015, requiring approximately 102,366 plants. The parcels were then overplanted in subsequent years when survivability has been low. The over-planting effort has brought the number of plants out-planted from the greenhouses to approximately 233,000 to date.

This document describes the revegetation goals as outlined in the 2003 Plan, monitoring methodology used to evaluate the conditions within the parcels and to assess the goals, and the results of the monitoring effort.

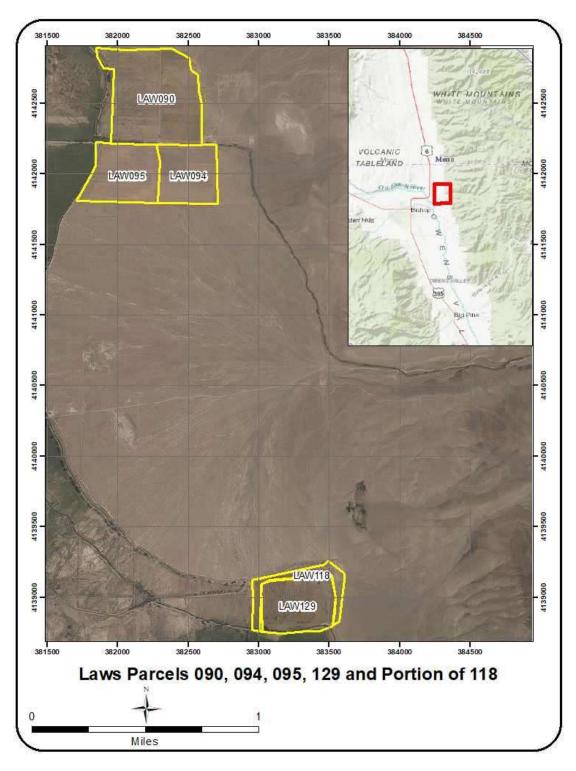


Figure 1. Location of Laws revegetation parcels in the 2003 Plan and their proximity to Bishop, California.

Cover and Composition Goals

The 2003 Plan calls for an average of at least 10% cover for all parcels. Additionally, each transect must have a cover value of at least 2%. The composition goal for parcels 090, 094, and0 95 is at least 10 different native perennial species, including a minimum of one native grass. For parcels 129 and 118, the composition goal is at least eight different native perennial species, including a minimum of one native grass.

The composition goal calls for a minimum number of readings or hits of different native perennial species for all the possible hits in a parcel. Parcel 090 has a goal of hitting six different species three times out of the total number of hits in the parcel. The remaining four species must be present in the parcel, but do not have to be hit on a transect. Parcels 094 and 095 have a goal of hitting six different species two times out of the total of all the hits in the parcel. The remaining four species must be present in the parcel, but do not have to be hit on a transect. Parcels 129 and 118 have a goal of hitting five different species two times out of the total number of hits in the parcels. The other three species need to be present in the parcel, but do not have to be hit on a transect.

Monitoring Design

To evaluate the cover and composition and to determine if the parcels have met the goals, permanent transects were chosen as described in the 2003 Plan. Using ArcMap and the most recent aerial image, each parcel was divided into 20 equal parts or sections. Within each section, one permanent transect was established. The transect start point was chosen to accurately represent the vegetation composition within a section, while not having the adjacent sections start point directly across from one another. Transect start points were sited at the north, central, and southern portions of a parcel. A bearing was then assigned to each transect (Figures 2-4). Because the parcels are laid out in a grid pattern with a planted row of vegetation adjacent to an open row, a bearing that would not run directly down the planted area was chosen.

The possible bearing for a transect included 40 degrees, 120 degrees, 220 degrees, and 320 degrees. The bearings were chosen so that a transect would not run directly down or perpendicular to a planted row. The bearings were assigned to the transects in the field. With the exception of a few transects, transects at the northern end of a parcel were assigned a bearing of 120 degrees, transects through the center of a parcel were assigned alternating bearings of 220 degrees and 320 degrees, and transects at the southern portion of a parcel were assigned a bearing of 40 degrees. The bearings, along with the start points, were evaluated in the field to determine if the location and direction of the transect were representative of the section. The start point of a transect was marked in the field with a metal tag and a photo was taken of each transect from 0 to 50 meters, looking down the transect. Each transect is 50 meters in length and read every 0.25 meters for a total of 200 possible readings or hits per transect. The transects were established and read in the summer of 2022 (July 20, 25, and 26). The monitoring effort was performed by both LADWP Watershed Resource Specialists and biological consultants from Stantec. Every live hit was recorded along a transect and species observed in a parcel, even if the species did not hit on a transect, were tallied on the datasheet.

Results

LAW 090, 094, 095, 118, and 129 parcels have met the cover and composition goals as described in the 2003 Plan. The composition criteria were not only met by observed presence in a parcel but by native perennial species hits on the transects (see Table 2). The 19-acre portion of LAW118 that surrounds LAW129 and LAW129 were treated as one parcel for this monitoring effort.

Table 2. Parcel Number with Goals, Current Cover and Composition

Parcel	Target Cover (%)	Target Composition (Number of species)	Perennial Cover 2022 (%)	Composition 2022*	Additional Criteria
090	10	10	15.7	13	Three hits for a least six different species out of all possible readings has been met and all transects are above 2% cover
094	10	10	10.8	14	Two hits for a least six different species out of all possible readings has been met and all transects are above 2% cover
095	10	10	12.3	12	Two hits for a least six different species out of all possible readings has been met and all transects are above 2% cover
118/129	10	8	16.7	15	Two hits for a least five different species out of all possible readings has been met and all transects are above 2% cover

^{*}Number of native perennial species

Discussion

The parcels include areas that have not been actively revegetated: no drip irrigation has been installed and the area has not been planted with containerized plants. The non-revegetated areas were used for the ongoing revegetation efforts including laydown areas for equipmnet and planting materials, roads for accesss into the parcels, and areas around irrigation infrastructure. Parcels are recruiting; rows are filling in naturally with new recruitment from adjacent plants. In the summer of 2024, following a two-year rest period, during which no revegetation activities including watering will be conducted, the parcels will be re-evaluated to determine if they still meet the goals. If a parcel meets the goals after the two year rest, no further revegetation activities will be necessary and the parcel will be considered complete. The only parcel that may fall below the goals following the two-year rest is parcel 094. Parcel 094 is on the toe of a rocky fan and uphill from the main line that feeds the irrgation lines. Because of this, it has always been hard to irrigate, often not showing any water on the surface at emitters even after days of running the irrigation. The plants are also fairly small and recruitment is minimal compared to the other parcels. The remaining parcels have high enough cover and composition values that the probability of them falling below the set goal is low. Further, there are large areas of recruitment which may demonstrate sustainabily into the future.

Enclosed the datasheets and photos from the 2022 monitoring effort.

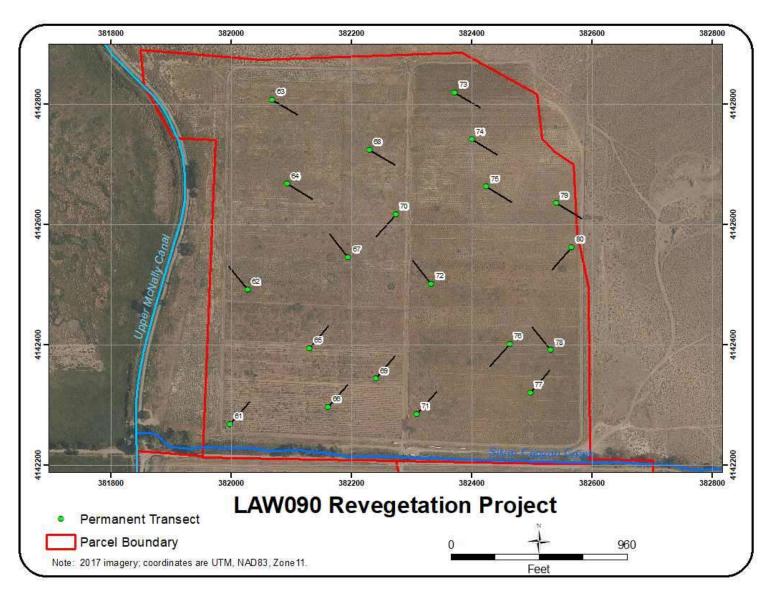


Figure 2: LAW090 revegetation transects.

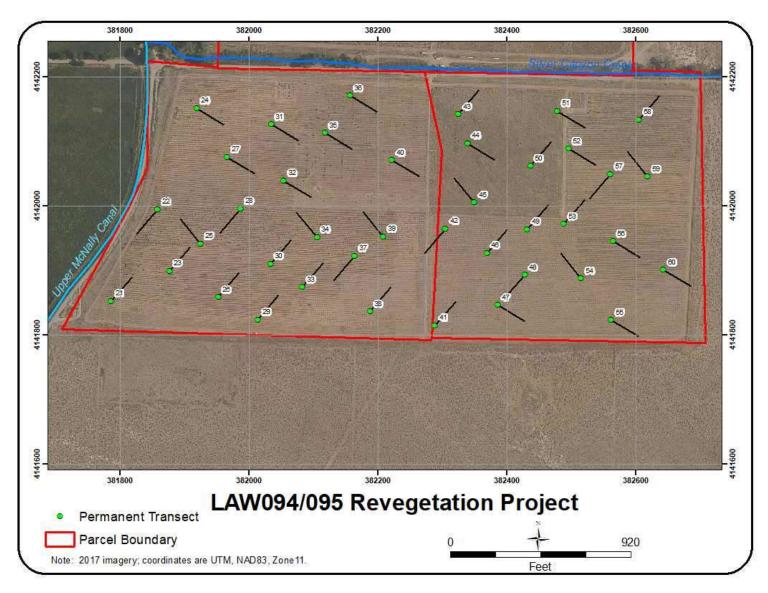


Figure 3: LAW094 and LAW095 revegetation transects. LAW094 is the eastern parcel boundary.

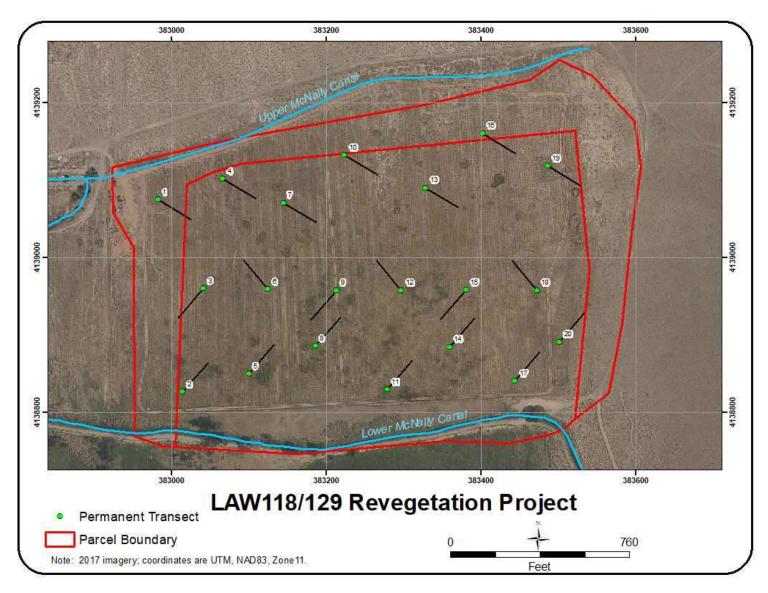


Figure 4: LAW118 and LAW129 revegetation transects.

References:

Los Angeles Department of Water and Power (LADWP). 2003. Revegetation Plans for Lands Removed from Irrigation Laws Parcels 90, 95, and 129 and Abandoned Agricultural Land Parcel 94. Attachment 4 to LADWP's Mitigated Negative Declaration for Irrigation Project in the Laws Area.

Date	7/25/22		Surveyor	Matt T			
Parcel	LAW090	LAW090	LAW090	LAW090	LAW090	LAW090	LAW090
Transect	61	62	63	64	65	66	67
Easting	381997	382026	382067	382092	382129	382160	382193
Northing	4142268	4142492	4142808	4142667	4142394	4142296	4142545
Bearing	40	320	20	120	40	90	320
ERNAIU		D D	X (D)			3	U. O
ATPO	: . 3	A (b)	L 6			L 6	:. ③
SATHIZ	. 0	D (3)	I O	X DLA	1 (8)	· (i)	
ATCA2	. 3		A. (I)	DD. D		X: (19	A:. 13
ACHY			£ ¹		63		. 2
ATO	X .X.(1)	:. (3)				I (8)	D 8
BAHY		: 3					
HECU3		. 0					
SAVE4	L 6					1, 2	
POFR	1: 5						

SPAI : 2

Date	1/25/22		Surveyor	natt T			
Parcel	LAW090	LAW090	LAW090	LAW090	LAW090 _	LAW090	LAW090
Transect	68	69	70	71	72	73	74
Easting	382229	382240	382273	382308	382332	382371	382399
Northing	4142724	4142344	4142617	4142285	4142501	4142820	4142741
Bearing	120	40	220	40	320	120	(20
ATRO	\square \square	M1: 6	И 6				
SATA12	(A) IZ (B)	L' 6	1: 6				
ATCA	L (6)		L: 0				
EANAIO		:: (D O				
HECU3			: 0				
KRLAZ		. 0					
ATC		40					
,							
<u> </u>				"			
	 			·	, · · · · · · · · · · · · · · · · · · ·		

Date	7/25/2022		Surveyor	Ryan Blaich	h .		
Parcel	LAW090	LAW090	LAW090	/ LAW090	LAW090	LAW090	LAW090
Transect	61	62	63	64	65	66	67
Easting	381997	382026	382067	382092	382129	382160	382193
Northing	4142268	4142492	4142808	4142667	4142394	4142296	4142545
Bearing	40	320	120	120	40	40	320
						Q.	
					2		
						Ą	
		×	16		9		
10							

Ryan Blach Surveyor **Date** 7/25/22 LAW090 LAW090 LAW090 LAW090 LAW090 LAW090 Parcel 78 79 80 75 76 77 Transect 382565 382531 382540 382462 382497 Easting 382424 4142562 4142402 4142320 4142391 4142635 4142663 Northing 20 220 220 **Bearing** NAMA: 18 X X X 1 (36) **M I** (28) 8 7 MACAIT

Date	7/25/28		Surveyor	Ryan Bla]
Parcel	LAW090	LAW090	LAW090	LAW090	LAW090	LAW090 \	LAW090]
Transect	68	69	70	71	72	. 73	74	1
Easting	382229	382240	382273	382308	382332	382371	382399	1
Northing	4142724	4142344	4142617	4142285	4142501	4142820	4142741	
Bearing	120	40	220	40	320	120	(120)	
ERNAIO		æ		· · 6				in a
SATR 12					: 2			
ATCA2				. (3)	XI: (15)	M N . (22)		7
PSARM								
ATPO				. (3)	A (0)	MI(13)	M MM M	(42)
KRLA2				•		4		
SPAL							t :	6
				×				

Date	7/20/22		Surveyor	Matt+			
Parcel	LAW094	LAW094	LAW094	LAW094	LAW094	LAW094	LAW094
Transect	41	42	43	44	45	46	47
<u>Easting</u>	382289	382305	382325	382339	382349	382369	382385
Northing	4141814	4141964	4142141	4142096	4142004	4141926	4141846
Bearing	40	220	120	120	3 Za	220	40
SATRIZ	; ()	1:6	r: 5)	\oplus	. (3)	·. (3)	1:6
ATCA2	Z W	区(16)	Ø:: (14)	Д 🕲	XL0		Ø1:60
KRLAZ	. 0						(4)
ATPO	1: 6)		T, O	X. (3)	D . (B)	D O	
SPAI					jer -		. ()
PSAMM				·		0	
ERMAIO ENFA				,		. 6	
ENFA			· · · · · · · · · · · · · · · · · · ·			4	
			·				

.

Date	7/26/22		Surveyor	Mott T			
Parcel	ĹAW094	LAW094	LAW094	LAW094	LAW094	LAW094	LAW094
Transect	48	49	50	51	52	53	54
Easting	382428	382432	382437	382478	382496	382488	382515
Northing	4141892	4141963	4142061	4142147	4142088	4141971	4141887
Bearing	40	320	120	120	120	ZZO	40
ERNAIO	\$ 6	LJ (7)	-				
PSARM	:: 0					-	
SATB12		3	; (2)				
SPAI	<u>(2)</u>						
DISP							
ATPO	3	X II(I)	以(1)				
ATCA	Li ©		A O				

* Asclepias fascicularus present at
the site.

* Errogonum fasciculatum
present at site.

Date	7/26/22		Surveyor	Ryan Bla	ich_		
Parcel	LAW094	LAW094	LAW094	LAW094	LAW094	LAW094	LAW094
Transect	48	49	50	51	52	53	54
Easting	382428	382432	382437	382478	382496	382488	382515
Northing	4141892	4141963	4142061	4142147	4142088	4141971	4141887
Bearing	40	320	120	120	120	220	40
SATRIZ				X (19)	M (10)	MM. 69	MM: 23
ATTO				:: (4)			
ATCA2			,	17 (8)	1. 6		M: (12)
AT PO			91		A (9)	3 . (11)	
KRLA2				題		(2)	3 (3)
LETR5		+			B	3	
ERNALO						1: 6	; (3)
SPAI						. (4)	. (2)

*Leynus cinereus is present.

Dete	7/2-122		Cumiovor	Ryan Blaice	V	
Date	7/26/22	(15000)	Surveyor			(1)1/(00)
Parcel	LAW094	LAW094	LAW094	/ LAW094	LAW094	LAW094
Transect	55	56	57	58	/ 59	60
Easting	382562	382565	382561	382605	382618	382643
Northing	4141822 /	4141945	4142049	4142133 /	4142045	4141900
Bearing	40)	320	(120)	(20)	120	820
SATR12	XII (18)	MM: 23	女口多	图图:图	2、区区	区口(18)
ATTO				Q (9)		H 8
ERNALO	1:6	: 9		T. (6)		
ENFA				. (3)		
ATCA2	T (7)	图: [12]	X:: (14)	1: (5)	図1:(5)	A (9)
SPAL	口有	: (9)			· (i)	, 3
ATPO	' 0		Z (9)			. 2
DISP						
KRLA2	r. 0					

	1 1				\		
Date	7/20/22		Surveyor 5	R.	\		
Parcel	LAW095	LAW095 ₁	LAW095	LAW095 /	LAW095/	LAW095	LAW095 ,
Transect	21	22 /	23	234	25 /	26	27 /
Easting	381786	38185\$	381876	381919/	381925	381952	381966/
Northing	4141852	41419∮4	4141898	414215/1	4141940	4141858	414207/5
Bearing	40		40			40	
SATRIZ	' ()		1: (4)			1 (3)	
SATRIZ	(1 (5)					因力仍	
SPAI	ii (4)	V	(1)			7 9	V
ERNAID	1, (5)		M (10)	•		ं (प	
ATTO			# 6			(1)	
DISP	30		(1)			' (1)	
ATO			11 (2)				
L410			<i>(</i>)				
LECIY			' ()				
Total	(55)		(35)				
IFTRT			, , (3)		g		

LETRT ATPU \$ 25 (35) ANDU 0, (2)

Date	7/20/22	T	Surveyor	Ryan Bla	inco	S	Ī
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	21	22	23	23	25	26	27
Easting	381786	381858	381876	381919	381925	381952	381966
Northing	4141852	4141994	4141898	4142151	4141940	4141858	4142075
Bearing		220			320		
ATTO		: (2)			1: (3)		
SPAI					· (1)		
ATCA2		X : (12)			X: (12)		
ATPO		X X (20)			X TTO		
SATRIZ		: 2			. 0		
SATRIZ ERNALO		: 3			(35)		
		(39)					

Date			Surveyor				<u> </u>
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	21	22	23	28 24	25	26	27
Easting	381786	381858	381876	381919	381925	381952	381966
Northing	4141852	4141994	4141898	4142151	4141940	4141858	4142075
Bearing				120			120
ELNAID				M: (b)			1:6/
ATTO .				X: O			
ATCA2				(2)			: 3
SPAI							:. B
SATRIZ							11 6
DISP							: 8
	·						
						-	
						<u> </u>	

LECT

	1-1			Λ			
Date	11/20125		Surveyor	/L			
Parcel	LAW095 ,	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	28 /	29	30	31 /	32 /	33	34 /
Easting	381987/	382013	382033	382034	38205/4	382082	382105/
Northing	414199\$	4141823	4141910	414212/6	41420/38	4141873	4141951
Bearing		48	40			40	
pist						(2)	
SATMIZ			((1)	<i>l</i>
ATO	,		_			A 9	
ATPU		[1]	A (0)			11 5	
SPAI						(1)	
ATLAZ		(4)	7 0			"(2)	
CEFR2						(1)	
ELWAIU		Ø (11)	11 8			5.6	
ATIAZ LEFRZ ELNAIU AMDUZ		3	(1)				
70/21		(19)	(29)			(30)	
- 5		رم)				$\overline{}$	

LETRS

g g

Date			Surveyor				
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	28	29	30	31	32	33	34
Easting	381987	382013	382033	382034	382054	382082	382105
Northing	4141995	4141823	4141910	4142126	4142038	4141873	4141951
Bearing				170	120		
SATR12				; ②	Z 6		
ATPO				1: 5	1: 6		
ERNAIO	\ - "			1: 6			
ATCA2				· 3	U (1)		
			*				
		,, .					
		, , ,	18.04				
	<u></u>		<u>.</u>	<u> </u>		· .	<u> </u>
				•	•		
	•						

Date	7/20/22		Surveyor	Ryan Black	160	<u> </u>	1
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	28	29	30	31	32	33	34
Easting	381987	382013	382033	382034	382054	382082	382105
Northing	4141995	4141823	4141910	4142126	4142038	4141873	4141951
Bearing	220						320
SATR12							T. 6
DISP						****	. (1)
DIST ERNAIO							N2 10
ATPO	図図「②						II (8)
ATCA2	T. 6						X (11)
ATTO	; 3					-	. (8)
SPA1							(37)
ISGI.	(39)						
<i>.</i>				·			



Date	07/20/22		Surveyor	Ryan Blail	16	
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	35	36	37	38	39	40
Easting	382117	382157	382164	382188	382208	382222
Northing	4142113	4142170	4141922	4141835	4141952	4142070
Bearing			220		320	
SATRIZ					12 (9)	
ATCA2					D (9)	
ATPO			. 3	`	MI (6)	
ERNALO			: 2		(34)	
ATTO			: (3)			
			(26)			

Date	1/20/22		Surveyor	JK T		
Parcel	LAW095	LAW095	LAW095	LAW095	LAW0951	LAW09
Transect	35	36	37	38	39	40 /
Easting	382117	382157	382164	382188	382208/	382272
Northing	4142113	4142170	4141922	4141835	4141952	414207
Bearing				40		11.1291
SATAIR				图: (15)		
ATCAZ				17 (7)		
ERNAIO		$\sqrt{}$		(1)		-/-
PISP				(2)		
ATPO				11 (4)		
						<u> </u>
			<u> </u>			
Total						
		ľ		(21)		

,

Date			Surveyor			T -
Parcel	LAW095	LAW095	LAW095	LAW095	LAW095	LAW095
Transect	35	36	37	38	39	40
Easting	382117	382157	382164	382188	382208	382222
Northing	4142113	4142170	4141922	4141835	4141952	4142070
Bearing	120	120				120
SATRIZ	XL(6)	X: (3				A: O
SATRIZ ATCA2	X (0)	L' 6				11 6
ATTO		40				
ATRO						1: 6
				÷		
					_ 	

5R, JZ

Date	9/18/23		Surveyor				
Parcel	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118
Transect	1	2	3	4	5	6	7
Easting	382988	382956	382993	382955	383004	383133	383226
Northing	4138809	4138878	4138945	4139001	4139070	4139138	4139183
Bearing	320	40	320	40	320	40	120
ERWAID	NA NA NA	HATHER HELL HIGHER	(2)	HAMMANI (1)	BAXXI. (1)	HAHTIN (3)	HAM (FI)
ATLA 2	7 6	HHATTHAN HATTI	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	MHANHAHAHAM (25)	图 图 图 图 图 图 图	(15)	###11 (14)
0158	' (2))					
ERNAID	X X 250 Th	2				,	
SATRIZ	这位对日39	4444	NAN RADIO	41141141141141141-	(8) 日本	###W##### 152D	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
IVAY	:: (4)			(2)			
SPM)		11			1		
ATRO	4		77 (6)	-	1. (5)	(5)	# N (8)
ACHY			e)		· (1)		
5+1244							
ERDE6						1 0	
34A53							(0)

Date			Surveyor			·	
Parcel	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118
Transect	8	9	10	11	12	13	14
Easting	383310	383395	383472	383539	383586	383543	383568
Northing	4139195	4139183	4139177	4139139	4139087	4139015	4138948
Bearing	120	40	40	40	320	40	320
ERC16	0	·			<u> </u>		<u> </u>
COARBY	1 0						
LACOIS	1111						
SATRIZ		######################################	地位的				
KALAZ	0		(Ta				<u> </u>
ERNMO	1時期/1 (12)	(E) 1141 HF144	HT (G)				
ATCAZ	1111111						
ARTRY		II G					
ATPO			(5)				
WAX			(3)	·			<u>.</u> .

Date	19/12/73		Surveyor	ISR			
Parcel	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118	LAW118
Transect	8	9	10	11	12	13	14
Easting	383310	383395	383472	383539	383586	383543	383568
Northing	4139195	4139183	4139177	4139139	4139087	4139015	
Bearing	120	40	40	4139139	320		4138948
_	120	40	/40			40	320
ATPO				双图图 "但2	47 \$ \$ 7 (73)	及四四四年(54)	* DA 15 (45)
JATR12		/		□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	1 (5)	;; (4)	29
ERDEG					位'(11)	Ø 77 (16)	A. (11)
		/ 1					
			***		<u>.</u>		
9	/						
			9				
							5
4	A.			-			

Dete	9/18/23	Curvovor	sr		
Date		Surveyor	110		
Parcel	LAW118				
Transect	15			¥	
Easting	383528				
Northing	4138851				
Bearing	40				
ATPO	DODI (38)			И	
SAIMZ	N (22)				
			e-		
		9		11	8
			· ·		

			42	0			
Date // 2	0/22		Surveyor 5				
Parcel	LAW129	LAW129,	LAW129	LAW129	LAW129	LAW129	LAW129
Transect	1	2	3 /	4	5	6	7
Easting	382981	383014	383041	383066	383099	38312 <mark>4</mark>	383144
Northing	4139074	41388 <mark>2</mark> 6	4138 9 59	4139101	4138849	4138958	4139070
Bearing	20129			120			120
ERNAID	双双"(23)			其位 (8)		l	' ()
ATCAZ	1 (8)	,	l		1		E (9)
FATR12	(3)			B (0)			Ø (11)
IVAX	- (t)						
COCAS				1 0		11	<i>(1)</i>
ATPO		-		: 4			X (1)
Bind weed				:: (4)			
MEOF				· (1)			
CPA1	(7)			(2)			
Total	(34)			(44)			(37)
KRLA							; (3)

KRLA

120, Indian rice grass
ACHY
Lycium coopeni

Date	7/20/22	· · · · · · · · · · · · · · · · · · ·	Surveyor \	Ryan Black			
Parcel	LAW129	LAW129	(LAW129 \	LAW129	LAW129	LAW129	LAW129
Transect	1 4 6	2 4 6	3 2 2	4 A De	5 h th	6 % 6	7
Easting	382981	383014	383041	383066	383099	383124	383144
Northing	4139074	4138826	4138959	4139101	4138849	4138958	4139070
Bearing	(MECO)	BOMO	2000 270	TIO .	2500	360	<u> </u>
SATRIZ			: (3)			3	
			: (2)				
ATPO			MMMC	(37)		XX (21)	
ERNA10			PA PA	()			
ATCAZ						图1:(5)	
ATPO			T(2)			1: (5)	
MIPU_			(50)			(94)	
					ļ		· · · · · · · · · · · · · · · · · · ·

.

120 for N 220 + 320 for Middle 40 for 5

Date	7/20/22		Surveyor	Mut T			
Parcel	LAW129	LAW129	LAW129	LAW129	LAW129	LAW129	LAW129
Transect	1	2	3	4	5	6	7
Easting	382981	383014	383041	383066	383099	383124	383144
Northing	4139074	4138826	4138959	4139101	4138849	4138958	4139070
Bearing		40			40		
ERNAIU		30 X X X I			M: D		
ATCA 2 SATA 12				-	図: ②		
SATA12					(3)		
						•	

7/20/22		Surveyor	Matt T			
LAW129	LAW129	LAW129	LAW129	LAW129	LAW129	LAW129
8	. 9	10	11	12	13	14
		383223				383359
	4138957	4139132		4138957	4139089	4138884
40			40			40
eren.			(3)			
Ø O						·
ALLO			AD: D		(59) []	NA AND
· · 3			L 6			
			; ②			
	-					2
				.		
	8 383185 4138885 6 10 10 10 10 10 10 10 10 10 10 10 10 10	LAW129 8 9 383185 383212 4138885 4138957	LAW129 LAW129 8 9 10 383185 383212 383223 4138885 4138957 4139132	LAW129 LAW129 LAW129 8 9 10 11 383185 383212 383223 383278 4138885 4138957 4139132 4138829 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LAW129 LAW129 LAW129 LAW129 8 9 10 11 12 383185 383212 383223 383278 383296 413885 4138957 4139132 4138829 4138957 Image: Control of the co	LAW129 LAW129 LAW129 LAW129 LAW129 8 9 10 11 12 13 383185 383212 383223 383278 383296 383328 4138885 4138957 4139132 4138829 4138957 4139089 Image: Control of the contro

Date	7/20/22		Surveyor	Ryan Blai	ch		
Parcel	LAW129	LAW129	LAW129	/LAW129	LAW129	LAW129	LAW129
Transect	8	9	10	11	12	13	14
Easting	383185	383212	383223	383278	383296	383328	383359
Northing	4138885	4138957	4139132	4138829	4138957	4139089	4138884
Bearing		270			320	<u> </u>	
ATCA2		区; 13			: 2		
ERNAIO		区区; 22			: 3		
ATPO		M7			MAL (26)		
DISP							
SATRIZ		•			M. O		
COARY		(93)			(1)(43)	<u> </u>	
					·		

	1			1		2	
Date	1/20/22		Surveyor	5	(
Parcel	LAW129	LAW129	LAW129	LAW129	LAW129	LAW129	LAW 1/29
Transect	8 /	9/	10	11/	12	13	14
Easting	3831/85	383212	383223	383278	383 2 96	383328	38 <mark>3</mark> 359
Northing	4138885	4138957	4139132	4138829	413 <mark>\$</mark> 957	4139089	4138884
Bearing			120			120	
ATPO			" 2				
ATCA			N DA ED	,	,		1
ERWAID			· (1)			[] 31 (39)	
SATRIZ						° ()	
							ø
Total			(23)			(40)	

	T - 1 - 1 - 1	ſ		Te 2(. '. 6	<u> </u>	·
Date	7/20/22		Surveyor	Ryan Blaich		1.434/400
Parcel	ĹAW129	LAW129	LAW129	/ LAW129	LAW129	LAW129
Transect	15	16	17	18	19	20
Easting	383380	383401	383444	383472	383486	383501 4138890
Northing	4138957	4139160	4138840	4138957	4139117	4130090
Bearing	220	*		320		
ERNA(O	N N N N N	图口(63)		区区区口	(37)	
KRLAZ						14.
SATRIZ				: (2)		
	(69)			(39)		
				-		
	Sec.					
	1	Ĺ		· ·		

LEFR

	1			0		
Date 7	120122		Surveyor 5/			
Parcel	LAW129	LAW129	LAW129	LAW129	LAW129	LAW 129
Transect	15 /	16	17	18 /	19	20
Easting	383380	383401	383444	383472	383486	383501
Northing	4138957	4139160	4138840	4138957	4139117	4/38890
Bearing		120			120	
SATRIZ	/	NE (v)			智7(6)	
ATTO		2 0				
ErnAlo Bindwad		II (6)	l		; (3)	
Bind wand		- (1)				
ATPO				2	476	
ATCA					D 98	
			16			
Total		(19)			(24)	

Date	7/20/22		Surveyor	Matt T	1 4144400	1.414/400
Parcel	LAW129	LAW129	LAW129	LAW129	LAW129	LAW129
Transect	15	16	17	18	19	20
Easting	383380	383401	383444	383472	383486	383501
Northing	4138957	4139160	4138840	4138957	4139117	4138890
Bearing			40			40
ERNAW			NO			: 3
SATRIZ			• 0			XX.
ATCA2						
ATR						•
Atto						. (
(10						
				<u> </u>		
				<u> </u>		



LAW090_61



LAW090_64



LAW090_63



LAW090_65



LAW090_66



LAW090_68



LAW090_67



LAW090_69



LAW090_70



LAW090_72



LAW090_71



LAW090_73



LAW090_74



LAW090_76



LAW090_75



LAW090_77



LAW090_78



LAW090_80



LAW090_79



LAW094_41



LAW094_42



LAW094_44



LAW094_43



LAW094_45



LAW094_46



LAW094_48



LAW094_47



LAW094_49



LAW094_50



LAW094_52



LAW094_51



LAW094_53



LAW094_54



LAW094_56



LAW094_55



LAW094_57



LAW094_58



LAW094_60



LAW094_59



LAW095_21



LAW095_22



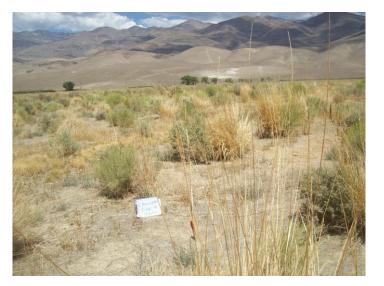
LAW095_24



LAW095_23



LAW095_25



LAW095_26



LAW095_28



LAW095_27



LAW095_29



LAW095_30



LAW095_32



LAW095_31



LAW095_33



LAW095_34



LAW095_36



LAW095_35



LAW095_37



LAW095_38



LAW095_40



LAW095_39



LAW118_01



LAW118_02



LAW118_04



LAW118_03



LAW118_05



LAW118_06



LAW118_08



LAW118_07



LAW118_09



LAW118_10



LAW118_12



LAW118_11



LAW118_13



LAW118_14



LAW129_01



LAW118_15



LAW129_02



LAW129_03



LAW129_05



LAW129_04



LAW129_06



LAW129_07



LAW129_09



LAW129_08



LAW129_10



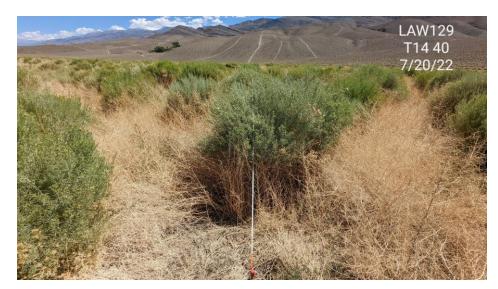
LAW129_11



LAW129_13



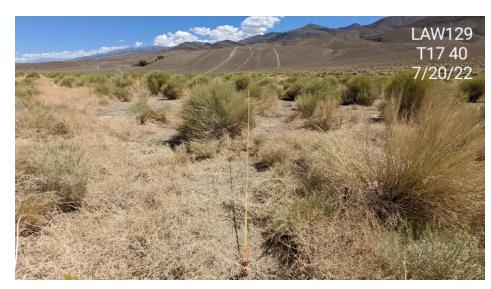
LAW129_12



LAW129_14



LAW129_15



LAW129_17



LAW129_16



LAW129_18



LAW129_19



LAW129_20