

City of San Diego MSCP Rare Plant Monitoring: 2009 Summary Results

Species	Site Name	Population				Native		Non-Native		Management Recommendation's	Field Data Sht (pg.#)	Photo number
		Area (m ²) ¹	Area (ft ²) ¹	# Individuals	Percent cover	Number of Species ²	Percent Cover ^{2,3}	Number of Species	Percent Cover ³			
<i>Bloomeria clevelandii</i> (San Diego Goldenstar)	Del Mar Mesa Obs. 1	62.2	669.9	29	1%	21	26%	5	8%	Remove old rebar and chicken wire around vernal pools	42	11
	Del Mar Mesa Obs. 2	1.0	10.8	1	1%	15	28%	6	21%	Continue access restrictions via fences	46	12
	East Elliot Obs. 1	14141.0	152212.0	100	1%	9	9%	4	21%	Weeding-difficult area to access because of topography	50	13
	East Elliot Obs. 2	488.8	5261.6	10	1%	8	43%	5	26%	N/A	52	14
	East Elliot Obs. 3	3215.9	34615.2	20	0.5%	7	32%	3	5%	None	54	15
	East Elliot Obs. 4	11546.8	124289.0	10	1%	10	47%	3	18%	None	56	16
	East Elliot Obs. 5	42486.6	457321.9	21	1%	10	57%	4	10%	Manage fire regime, continue to restrict vehicle access along abandoned roadway	58	17
	Lopez Ridge	450.0	4842.0	37	1%	16	46%	6	21%	Maintain existing access restrictions	60	18
	Marron Valley Obs. 1	68512.4	737460.6	12000	10%	15	20%	5	65%	Maintain signs, no road expansion	64	19
	Marron Valley Obs. 2	68512.4	737460.6	5000	3%	14	15%	5	62%	Maintain signage	68	20
	Marron Valley Obs. 3	68512.4	737460.6	30,000	15%	15	28%	7	33%	Maintain signage, no road expansion	72	21
	Marron Valley Obs. 4	†	†	†	†	†	†	†	†	†	†	†
	Mission Trails Regional Park	N/A	N/A	0	0%	9	32%	6	45%	Possible weeding-difficult due to remote location	76	22
	Otay Lakes East Obs. 1	336998.0	3626094.9	750	1%	7	102%	1	3%	Water Dept. installed fence and vehicle barricades and signs-no current visible trespassing	78	23
	Otay Lakes West Obs. 2	336998.0	3626049.9	1,000	3%	8	44%	6	93%	Area detached 2007-2009, fencing installed 2008/2009, no visible impacts from trespass	80	24
<i>Brodiaea orcuttii</i> (Orcutt's Brodiaea)	Carroll Canyon	1046.5	11263.9	93	1%	15	30%	6	40%	Continue annual inspections and trash removal, continue fence maintenance as needed	84	25
	Del Mar Mesa Obs. 1	135.5	1458.0	450	1%	18	32%	6	26%	Weeding in uplands	88	26
	Del Mar Mesa Obs. 2	2301.7	24774.9	300	1%	9	43%	6	7%	Continue access restrictions	92	27
	General Dynamics East Obs. 1	3561.2	38332.5	300	1%	15	27%	6	9%	None	94	28
	General Dynamics West Obs. 2	7028.4	75653.0	32	1%	13	26%	4	32%	Expand weeding, maintain access restrictions	98	29
	Lopez Ridge	450.0	4842.0	150	1%	15	45%	7	22%	Maintain existing access restrictions	100	30
	Nobel Drive	112.0	1205.0	5	1%	12	19%	9	21%	Continue to maintain fence	104	31
	USIU/Scripps Miramar Ranch	N/A	N/A	0	0%	15	16%	12	82%	Weed removal-difficult due to limited access	108	32
<i>Ceanothus verrococus</i> (Wart-Stem Lilac)	Carmel Mountain	20270.6	218190.3	200	60%	7	73%	0	0%	None		
	Crest Canyon	1529.0	16458.0	1	0.5%	8	42%	1	2%	None		
<i>Cordylanthus orcuttianus</i> (Orcutt's Bird's Beak)	Otay River Valley	692.8	7456.8	5000	20%	12	33%	4	17%	None	114	33
<i>Cylindropuntia californica</i> (Snake Cholla)	Balboa Park	†	†	30	1%	15	43%	1	1%	None	118	34
	Otay Mesa	3036.0	32670.0	25	1%	11	33%	5	23%	Purchase land for conservation	120	35
	Goat Mesa (Spring Canyon)	1012.0	10890.0	30	1%	12	27%	7	22%	None	122	36
<i>Deinandra conjugens</i> (Otay Tarplant)	Dennery Ranch East	400.0	4303.0	2000	5.0%	8	14%	10	44%	Weeding	130	38
	Dennery Ranch	250.0	2690.0	1	1.0%	10	24%	8	44%	Weed control	126	37

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	Proctor Valley	3347.3	36018.0	150	1%	7	17%	7	98%	Continue to maintain fences and gates, herbicide cynara (2 ind.) ASAP	134	39
<i>Dudleya blochmaniae</i> ssp. <i>Brevifolia</i> (Short-Leaved Dudleya)	Carmel Mountain Obs. 1	450.0	4842.0	1142	0.5%	8	14%	4	4%	Maintain	138	40
	Carmel Mountain Obs. 2	250.0	2691.0	344	1.0%	12	46%	2	2%	Maintain fencing and educational kiosk	140	41
	Carmel Mountain Obs. 3	279.0	3000.0	1052	1.0%	13	27%	3	4%	Maintain fence and educational kiosk	142	42
	Crest Canyon North	158.0	1700.0	1200	1%	11	29%	2	2%	Contact nearby owner RE black cord	144	43
	Crest Canyon South	25.0	270.0	9	0.5%	10	14%	0	0%	Maintain fencing	146	44
	Skeleton Canyon	†	†	†	†	†	†	†	†	†	†	†
<i>Dudleya variegata</i> (Variegated Dudleya)	Black Mountain East	0.0	0.0	0	0%	9	25%	5	37%	Weeding	150	45
	East Elliot - Creek	0.0	0.0	0	0%	6	19%	4	32%	Monitor trail-fence if necessary, large scale weed control?	152	46
	East Elliot - Hilltop	10.0	108.0	57	1%	13	35%	2	2%	None	154	47
	East Elliot - Slope	500.0	5380.0	85	1.0%	5	14%	5	34%	Weed control if possible given remote location and steep terrain	156	48
	Goat Mesa (Spring Canyon)	802.6	8636.0	0	0%	9	21%	6	24%	None	158	49
	Lake Murray	0.0	0.0	0	0%	7	27%	4	16%	Weed if possible given difficult location-especially weed by trail	160	50
	Marron Valley	150.0	1614.0	1200	1%	12	15%	5	44%	Maintain existing signage	162	51
	Mercy Road	35.0	377.0	150	1%	9	18%	5	35%	None	166	52
	Mission Trails #1	12.0	130.0	5	1%	10	23%	5	18%	Extend fence if trail impacts in future, weeding if Avena enters Dudleya area	168	53
	Mission Trails #2	241.4	2598.0	129	1%	10	18%	5	25%	Weed control if grasses enter Dudleya site	170	54
	Mission Trails #3	50.0	358.0	66	1%	7	18%	6	18%	Weed control if grasses enter Dudleya site	172	55
	Navajo/Mission Gorge	8926.0	96044.0	1500	3%	11	18.0%	10	42%	Monitor weeds-weeding if necessary	174	56
	Otay Lakes	72702.0	782557.6	500		8	14%	3	101%	Weed control implemented 2007-2009	178	57
	Ocean View Hills	†	†	†	†	†	†	†	†	†	†	†
	Paradise Valley	†	†	†	†	†	†	†	†	†	†	†
	Santa Luz	10.0	108.0	24	1%	10	30%	4	22%	Weeding	180	58, 59
<i>Eryngium aristulatum</i> var. <i>parishii</i> (San Diego Button Celery)	Del Mar Mesa #1	1047.0	11266.0	4000	7%	18	26%	6	26%	Weeding in uplands	186	60
	Del Mar Mesa #2	3278.0	35284.0	350	7%	15	22%	6	21%	Continue to restrict access via fencing	190	61
	Del Mar Mesa #3	6351.2	68363.9	150000	15%	10	38%	3	3%	Remove Brassica, repair fence	194	62
	General Dynamics	266.8	2872.1	950	2%	15	27%	6	9%	Continue maintaing fence as needed	196	63
	Goat Mesa #1 (Spring Canyon)	293.0	3150.0	350	3%	6	11%	9	39%	Maintain perimeter fence, weed	200	64
	Goat Mesa #2 (Spring Canyon)	1930.7	20778.4	500	3%	6	25%	12	44%	Weeding	202	65
	Otay Lakes	†	†	†	†	†	†	†	†	†	†	†
<i>Lessingia filaginifolia</i> var. <i>linifolia</i> (Del Mar Sand Aster)	Carmel Mountain	1658.29	17843.2	100	1%	11	34%	4	6%	Monitor trail; fence/reroute as needed	206	66
	Crest Canyon #1	140	1506	450	13%	7	40%	4	6%	Remove ice plant; monitor trail and fence if expanding	208	67
	Crest Canyon #2	75	807	80	3%	12%	22%	3	3%	None	210	68
	Del Mar Mesa	†	†	†	†	†	†	†	†	†	†	†
	Overlook Park	3052	32842	1000	5%	11	22%	2	2%	Maintain fence	212	69

Multiple Species Conservation Program (MSCP) Rare Plant Field Survey Form

Scientific Name: <u>Desmodium conjugens</u>		Common Name: <u>Hay Tarplant</u>	
Site Name: <u>Proctor Valley</u>		Management Unit #: <u>TBD</u>	
Date: <u>6/4/09</u>		Management Regime: <u>TBD</u>	
Surveyors and Affiliation/Agency: <u>Betsy Miller City of San Diego Park + Recreation</u> <u>Tim Cass City of San Diego Water</u>			

Species Found? ☒ Yes ☐ No If not, why (if reason known or suspected)?

Total No. Individuals: 150 ☐ Exact ☒ Estimate (use orders of 10, 100 and 1000 for estimates)

Population/Subpopulation Area: 3347.34 m² ☒ Exact (based on GPS mapping) ☐ Estimate
Units 2005 GPS mapping

Collection (if not collected previously)? ☐ Yes ☒ No ☐ Collected Previously

If yes: _____

Collector _____ Collection Number _____ Museum/Herbarium _____

I. OBSERVATION AREA/MANAGEMENT UNIT LOCATION

Accuracy of Coordinates/GPS Error: +/- 1 ☒ meters ☐ feet

Observation Location: 6353224.493 1825326.858 ☒ State Plane (feet) ☐ UTM

II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT

Vegetation Community: Annual + perennial grasslands

Landowner/Manager: City of San Diego Water Dept

Overall Site Quality** ☐ Very Good-Excellent ☐ Fair to Good ☒ Poor ☐ Very Poor

Surrounding land use: open space

Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):

high cover invasives (esp. grasses)
high fire frequency
ORV use appears to be less than in previous years due to fencing

Management Recommendation/s:

continue to maintain herbicide Cynara (2 ind.) ASAP
fences + gates

III. ASSOCIATED SPECIES

List dominant, subdominant and invasive species in/near target species observation area/management unit.

Species*=List all species (sci. name). Use * to indicate non-native species; 'Cover' = % cover of species; Note if collected by checking 'Coll.' column; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted).

Species	Cover	Coll?	Coll. #	Species	Cover	Coll?	Coll. #
<u>Desmodium conjugens</u>	<u>1</u>			<u>Sisymbrium luteum (dried)</u>	<u>2</u>		
<u>Isocoma menziesii</u>	<u>5</u>			<u>* Ervum sp.</u>	<u>5</u>		
<u>Desmodium fasciculata</u>	<u>45</u>			<u>* Salvia tragus</u>	<u>1</u>		
<u>Lotus scoparius</u>	<u>1</u>			<u>* Lolium multiflorum</u>	<u>5</u>		
<u>Chorogalum parvifolium</u>	<u><1</u>			<u>* Brassica nigra (dried)</u>	<u>1</u>		
<u>Nasella pulchra</u>	<u>2</u>			<u>Desmodium conjugens</u>			
<u>Dichostemys capitatum (dried)</u>	<u>1</u>			<u>* Cynara cardunculus (dried)</u>	<u><1</u>		
<u>* Avena fatua</u>	<u>5</u>			<u>* Brachypodium distachyon</u>	<u>80</u>		

IV. SITE PHOTOMONITORING

Camera type: Nikon Coolpix 3560

<u>6353224.493</u>	<u>1825326.858</u>	<u>E, SE, S</u>	<u>1.1m</u>	<u>~ down 5°</u>	<u>854-557</u>	<u>5/65/MSRP</u>
Location [State Plane (ft)]		Direction (facing)	Height	Camera Angle	Photo #	File location/s
Location [State Plane (ft)]		Direction (facing)	Height	Camera Angle	Photo #	File location/s

V. OTHER FIELD NOTES

Other Field Notes/Comments: no Decu from western portion of pop (across road)

** Use Trudgen & Keighery Vegetation Condition Scale Descriptions (see back of form or instructions)

Continue on back if needed.

Photo 39. *Deinandra conjugens* (Otay Tarplant) Proctor Valley



Panorama from Southeastern edge of population, facing East, Southeast, South.
Panorama location is 6353224.49 18525326.86 NAD83 State Plane California Zone 6 (feet)
Photos merged using ArcSoft Panorama Maker 4.

Acknowledgments

The following staff assisted in the preparation of this report:

Betsy Miller, Biologist III

Jeanie Gaudette, Open Space Intern

Melea Logan, Open Space Intern