

City of San Diego MSCP Rare Plant Monitoring: 2006 Summary Results

Species	Site Name	Population				Native		Non-Native		Management Recommendation	Field Data Sht (pg. #)	Photo (pg. #)
		Area (m ²) ¹	Area (ft ²) ¹	# Individuals	% Cover	Number of Species ²	Percent Cover ^{2,3}	Number of Species	% Cover ³			
<i>Lotus nuttallianus</i> (Nuttall's Lotus)	Dune Triangle	1000 (Est)	10,764 (Est)	not provided	0.5%	7	27%	3	5%	Control invasives	75	76
	Hospitality Point	5505 (Est)	59,258 (Est)	300 (Est)	7%	4	19%	9	16%	Control invasives	77	78
	No Man's Land	35,466	381,762	150 (Est)	0.5%	3	9%	8	26%	Control invasives	79	80
	South Shores	27,669	297,834	not found	NA	4	3%	3	37%	Control invasives	81	82
		Note: Primary invasives at <i>L. nuttallianus</i> sites (all are in Mission Bay area) are Iceplant (<i>Carpobrotus edulis</i>), Storksbill/Filaree (<i>Erodium sp.</i>), and Non-Native Grasses. Note also that some former volunteers have informed staff they are discontinuing weed control work in Mission Bay due to City herbicide policies, thus more staff or contractor management of these sites may be necessary in coming years.										
<i>Monardella viminea</i> (Willow Mondardella)	Lopez Canyon Bridge 1	56 (Est)	600 (Est)	3 (Est)	1%	1	1%	3	27%	Control invasives; Cut back vegetation around Monardella; (Long-term) reduce stormwater run-off	83	84
	Lopez Canyon Bridge 2	56 (Est)	600 (Est)	1	2%	2	16%	4	9%	"	85	86
	Lopez Canyon West Terrace	56 (Est)	600 (Est)	1 (plus plantings)	1%	4	14%	5	8%	"	87	88
	Otay Lakes	500 (Est)	5,382 (Est)	1	0.5%	6	25%	9	10%	Remove Tamarisk; Control & monitor illegal trails	89	90
	Sycamore Canyon	15,970	171,904	22	1%	7	4%	6	59%	Control non-native grasses	91	92
	Marron Valley	13,340	143,590	95	◆	◆	◆	◆	◆	Monitor and control non-native grasses as needed	NA	NA

**Photo 40. *Monardella viminea* (Willowy Monardella)
Lopez Canyon – Bridge 1**



Panorama facing southwest, west, and northwest (photos merged using Canon PhotoStitch, v. 3.1).

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



Scientific Name: Monardella viminea Common Name: Willow Monardella
 Site Name: Lopez Canyon, East of Bridge #12 Management Unit #: TBD
 Date: June 14, 2006 Management Regime: TBD
 Surveyors and Affiliation/Agency: Melanie Johnson Rocks, Lisa Markovchick-Nicholls, Mike Klein - City of SD MSCP

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

Total No. Individuals: 1 Exact Estimate (use orders of 10, 100 and 1000 for estimates)

Population/Subpopulation Area: _____ Exact (based on GPS mapping) Estimate
 Units _____

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: +/- _____ meters feet
 Observation Location: _____ State Plane (feet) UTM

II. GENERAL HABITAT DESCRIPTION AND THREATS ASSESSMENT

Vegetation Community: Southern ~~Montezuma~~ Chaparral / Baccharis scrub mix
 Landowner/Manager: City of SD Pl 4, Rec open space

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):
Canyon erosion (increased ~~stormwater~~ runoff) Type conversion, non-natives

Management Recommendation/s:
Control non-natives; cut back all vegetation around monardella Longterm: reduce stormwater runoff

III. ASSOCIATED SPECIES w/ ~ 6' of plant

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

Form: Tree=T, Shrub=S, Herb/Graminoid=H; 'Cover' = % cover of species; Note if collected by checking 'Coll.' column; if submitted to herbarium, note collection number (submit to SDNHM unless otherwise noted); Use * to indicate non-native species

Form	Species	Cover	Coll.	Form	Species	Cover	Coll.
S	Baccharis sarothroides	15					
H	Brassica nigra *	5					
S	Monardella viminea	2					
H	Cryptantha sp.	<1					
H	Vulpia myuros (c.f. var. myuros) *	2					
H	Bromus madriensis *	1					
H	Centaurea melitensis *	<1					

IV. SITE PHOTOMONITORING

Camera type: Canon Powershot A7S

Location [State Plane (ft)]	<u>NE E, SE</u>	Direction (facing)	<u>51"</u>	Height	<u>Down 5+40°</u>	Camera Angle	<u>8-10</u>	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: _____

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

**Photo 41. *Monardella viminea* (Willowy Monardella)
Lopez Canyon – Bridge 2**



Panorama facing northeast, east, and southeast (photos merged using Canon PhotoStitch, v. 3.1).

**Photo 42. *Monardella viminea* (Willowy Monardella)
Lopez Canyon – West Terrace**



Panorama facing south, southwest, and west (photos merged using Canon PhotoStitch, v. 3.1).

**Photo 43. *Monardella viminea* (Willow Monardella)
Otay Lakes**



Panorama facing northeast, east, and southeast (photos merged using Canon PhotoStitch, v. 3.1).

**Photo 44. *Monardella viminea* (Willowy Monardella)
Sycamore Canyon**



Panorama facing southeast, south, and southwest (photos merged using Canon PhotoStitch, v. 3.1).

Acknowledgments

The following staff assisted in the preparation of this report:

Melanie Johnson Rocks, Biologist III
Keith Greer, Deputy Planning Director
Lisa Markovchick-Nicholls, MSCP Intern

**City of San Diego MSCP Rare Plant Monitoring:
2006 Field Dates and Staff**

Species	Risk Group (SDSU 3/06)	Site	Survey Date	Field Staff	Methodology
<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i> (Del Mar Manzanita)	First	Crest Canyon	14-Apr	MJR, JG	Photo, Habitat Assessment
		Crest Canyon	20-Apr	MJR, JG	
		Carmel Mountain	28-Apr	MJR, JG, KG	
<i>Navarretia fossalis</i> (Spreading Navarretia)	First	Carroll Canyon	18-May	MJR, JG, LMN	Photo, Habitat Assessment
		Nobel Drive	18-May	MJR, JG, LMN	
		Robinhood Ridge	16-May	MJR, BM, LMN	
<i>Orcuttia californica</i> (California Orcutt Grass)	First	Robinhood Ridge	16-May	MJR, BM, LMN	Photo, Habitat Assessment
<i>Pogogyne nudiuscula</i> (Otay Mesa Mint)	First	Robinhood Ridge	16-May	MJR, BM, LMN	Photo, Habitat Assessment
<i>Acanthomintha illicifolia</i> (San Diego Thorn-mint)		Black Mountain Pk W (BMR)	19-May	MJR, KG, MK	Census, Photo, Habitat Assessment, Quantitative
		Mission Trails ^	26-May	MJR, KG, JF, LH	
		Penasquitos Cyn	19-May	MJR, KG, MK	
		Sabre Springs	19-May	MJR, KG, MK	
		Sabre Springs	19-May	MJR, KG, MK	
<i>Ambrosia pumila</i> (San Diego Ambrosia)	First	Mission Trails Regional Park	8-Jun	MJR, LMN	Photo, Habitat Assessment
<i>Dudleya variegata</i> (Variegated Dudleya)	Second	Black Mtn Pk - E (BMR)	10-May	MJR, BM	Photo, Habitat Assessment
		Black Mountain Pk W (BMR)	19-May	MJR, MK	
		East Elliot	26-May	KG, MJR, BM	
		East Elliot	1-Jun	MJR, JG	
		Goat Mesa	16-May	MJR, BM, LMN	
		Marron Valley	2-May	MJR	
		Mercy Road	10-May	MJR, BM	
		Mission Trails ^	26-May	MJR, KG, JF, LH	
		Otay Lakes ^	24-May	MJR, LMN	
		Santa Luz (BMR)	10-May	MJR, BM	
<i>Dudleya blochmaniae</i> subsp. <i>brevifolia</i> (Short-Leaf Dudleya)	First	Carmel Mountain	2-Jun	KG, MJR, BM, LH	Photo, Habitat Assessment, Quantitative @ Pop 3
		Crest Canyon	2-Jun	KG, MJR, LH	
		Skeleton Canyon	2-Jun	KG, MJR, LH	

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<i>Lotus nuttallianus</i> (Nuttall's lotus)	First	Hospitality Pt	18-May	MJR, JG, LMN	Photo, Habitat Assessment
		No Men's Land	1-Jun	MJR, JG	Photo, Habitat Assessment
		South Shores	1-Jun	MJR, JG	Photo, Habitat Assessment
		Dunes Triangle	1-Jun	MJR, JG	Photo, Habitat Assessment
<i>Monardella viminea</i> (Willowly Monardella)	Second	Lopez Canyon	14-Jun	MJR, LMN, MKI	Quantitative, Photo, Habitat Assessment
		Marron Valley	30-Jun	MJR, BM, PS	Quantitative
		Sycamore Canyon [^]	20-Jun	KG, LMN	Quantitative, Photo, Habitat Assessment
		Otay Lakes [^]	12-Jul	MJR, PS, LMN	Habitat Assessment, Photo
<i>Deinandra conjugens</i> (Otay Tarplant)	First	Proctor Valley [^]	16-Jun	MJR, PS	Photo, Habitat Assessment
<i>Cordylanthus orcuttianus</i> (Orcutt's Bird's Beak)	First	Otay River Valley	7-Jul	MJR, JG	Quantitative, Photo, Habitat Assessment

[^] Survey site is located in Oct 2003 fire-affected area

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