

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>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i> (Del Mar Manzanita)	Carmel Mountain	800 (Est)	8,611 (Est)	10 (Est)	20%	5	44%	NA	NA	Monitor trail use & install barriers if needed	26	27
	Crest Canyon - 1 / South	800 (Est)	8,611 (Est)	10 (Est)	2%	10	71%	1	1%	Control invasives in canyon	28	29
	Crest Canyon - 2 / North	800 (Est)	8,611 (Est)	100 (Est)	2%	11	42%	1	2%	<i>Ehrarta</i> spp. control; Educational outreach with neighbors regarding invasives	30	31
<i>Cordylanthus orcuttianus</i> (Orcutt's Bird's Beak)	Otay River Valley	800 (Est)	8,611 (Est)	150 (Est)	15%	8	7%	3	3%	Monitor / limit trail width; Control invasives	32	33
<i>Deinandra conjugens</i> (Otay Tarplant)	Proctor Valley	3,347	36,030	150 (Est)	1%	11	19%	12	19%	Control invasives; Close trail/control off-road activity	34	35

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



Scientific Name: Arctostaphylos glandulosa ssp. glandulosa Common Name: Dol Mar Manzanita
 Site Name: Cornel Mend Management Unit #: obs 1 - east portion
 Date: 4/28/06 Management Regime: NA - suggest prob quiescent
 Surveyors and Affiliation/Agency: Keith Greer, Melanie Johnson, Josh Garcia (City of SD)

Species Found? Yes No
 If not, why (if reason known or suspected)?
 Total No. Individuals: 10 Exact Estimate (use orders of 10, 100 and 1000 for estimates)
 Population/Subpopulation Area: 800 m² Exact (based on GPS mapping) Estimate
 Units

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: Maritime Chaparral
 Landowner/Manager: City of SD - Gina Washington (Sr Ranger)
 Incidental rare/sensitive plant or animal sightings on this date at this site: Ceanothus verrucosus
 Overall Site Quality** Very Good-Excellent Fair to Good Poor Very Poor
 Surrounding land use: Immediate surrounding is open space park - to N is habitat partly owned
 Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible):
Active trail immediately east of observation area. Management Recommendation/s:
Monitor trail usage & install barriers if needed/impacts occur

III. ASSOCIATED SPECIES

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

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

Form	Species	Cvr.	Coll.	Form	Species	Cover	Coll.
S	Arctostaphylos gland ssp	100					
S	Adenostoma fasciculata	25					
M/S	Mimulus aurantiacus	10					
S	Ceanothus verrucosus	2					
H	Yucca shottii	1					
S	Melospiza laurina	1					

IV. SITE PHOTOMONITORING

Camera type: _____
 (2) photos Location [State Plane (ft)]: 6253382.7 1929507 Direction (facing): NW 320° Height (Use Tripod): 45" Camera Angle: Slightly downward File location/s: _____
 Location [State Plane (ft)]: _____ Direction (facing): _____ Height (Use Tripod): _____ Camera Angle: _____ File location/s: _____
 Collection (if not collected previously)? Yes No
 If yes: Collector: _____ Collection Number: _____ Museum/Herbarium: _____

V. ADAPTIVE MANAGEMENT RECOMMENDATIONS/FIELD NOTES

Adaptive Management Experiment Recommendations: Ø
 Other Field Notes/Comments:

** Use Trudgen & Keigley Vegetation Condition Scale Descriptions (see form instructions)

**Photo 11. *Arctostaphylos glandulosa* ssp. *crassifolia*
Carmel Mountain**



Photo from southeastern edge of observation area, facing northwest.

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

Scientific Name: *Arctostaphylos glandulosa* ssp. ^{cross. filix} **Common Name:** *Del Mar Sand Aster*
Site Name: *Crest Canyon - S. obs Pt.* **Management Unit #:** *TBD*
Date: *April 14, 2006* **Management Regime:** *TBD*
Surveyors and Affiliation/Agency: *Melanie Johnson-Rickes - City MSCP; Josh Garcia - City Pl & Rec*

Species Found? Yes No If not, why (if reason known or suspected)?
 Total No. Individuals: 10 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 Maritime Chaparral*
 Landowner/Manager: *City of San Diego Park & Recreation Open Space*
 Overall Site Quality** Very Good-Excellent Fair to Good Poor Very Poor
 Surrounding land use: *Open Space; Residential ~100-200' to east*

Disturbances and/or threats (be specific, include extent of disturbance or percent cover of disturbance if possible): <i>Minor pampas grass in surrounding area; Azacia, iceplant in canyon bottom (not obs. area)</i>	Management Recommendation/s: <i>Control invasives in canyon</i>
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III. ASSOCIATED SPECIES

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	<i>Adenostoma fasciculata</i>	40		H	<i>(c.f. Lactuca sp.)*</i>	1	
H	<i>Salvia mellifera</i>	10		S	<i>Opuntia (c.f. oricola)</i>	1	
S	<i>Ceanothium dumosum</i>	5		S	<i>Arctostaphylos glandulosa ssp. cross. filix</i>	~2	
S	<i>Rhus integrifolia</i>	5					
H	<i>Mimulus aurantiacus</i>	2					
S	<i>Ceanothus verrucosus</i>	2					
S	<i>Ceanothus (c.f. tomentosus)</i>	2					
T	<i>Pinus torreyana</i>	2					

IV. SITE PHOTOMONITORING

Camera type: *Canon PowerShot A75*

Location [State Plane (ft)]	<i>NE, N, NW, W</i>	Direction (facing)	<i>59"</i>	Height	<i>Down ~5°</i>	Camera Angle	Photo #	<i>E: Monitoring</i>	File location/s
Location [State Plane (ft)]	<i>N</i>	Direction (facing)	<i>45"</i>	Height	<i>Level</i>	Camera Angle	Photo #	<i>E: Monitoring</i>	File location/s

V. OTHER FIELD NOTES

Other Field Notes/Comments: _____

**Photo 12. *Arctostaphylos glandulosa* ssp. *crassifolia*
Crest Canyon – Southern Observation Area**



Panorama from bluff located south of southern observation area (observation area is along west facing slope, in right portion of photo), facing north (photos merged using Canon PhotoStitch, v. 3.1).

**Photo 13. *Arctostaphylos glandulosa* ssp. *crassifolia*
Crest Canyon – Northern Observation Area**



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