



Kelton
Vernal pool 3 looking north

3.2.7.b A second site occurs in the vicinity of Chollas Lake. This 13-acre site, which historically supported *B. sandiegonensis* (personal comm. Greg Mason, Helix Environmental), was not included in Bauder’s inventory (1986). The current inventory was unable to cover this area because it is owned by the U.S. Navy, and repeated attempts by the City to gain access were denied.

3.2.8 Otay Lakes

Two vernal pool sites are located in the Otay Lakes area: the 19 basins of Proctor Valley and the larger Otay Lakes, which includes 87 basins.

3.2.8.a The Proctor Valley (R 1) site is located along Proctor Valley Road between Indian Springs and eastern Chula Vista. This site has been grazed and off-road vehicle activity occurs on-site. Eighteen basins were mapped on a City-owned parcel of approximately 157 acres and a single basin was mapped on an adjacent privately owned parcel. None of these vernal pools are conserved at this time. No sensitive plant species were observed at this site; however, Bauder (1986) observed *M. minimus* at two basins. *Branchinecta* spp. were noted in eight vernal pools. Vernal pool indicator species and fairy shrimp observed at this site are listed in Table 33. This area was not surveyed for amphibians. For a map of this site, refer to 178-1785 in Appendix C.

Table 33		
Proctor Valley		
Presence of Vernal Pool Indicator Species		
<i>Callitriche marginata</i>	•	<i>Myosurus minimus</i>
<i>Crassula aquatica</i>	•	<i>Navarretia fossalis</i>

Table 33, con't Proctor Valley Presence of Vernal Pool Indicator Species		
<i>Deschampsia danthoniodes</i>	•	<i>Orcuttia californica</i>
<i>Downingia cuspidata</i>		<i>Phalaris lemmonii</i>
<i>Elatine californica</i>		<i>Phalaris</i> spp.
<i>Epilobium pygmaeum</i>		<i>Pilularia americana</i>
<i>Eryngium aristulatum</i>		<i>Pilularia</i> spp.
<i>Isoetes howellii</i>	•	<i>Plagiobothrys acanthocarpus</i>
<i>Isoetes orcuttii</i>		<i>Plantago elongata</i>
<i>Isoetes</i> spp.		<i>Plantago</i> spp.
<i>Lilaea scilloides</i>		<i>Pogogyne abramsii</i>
<i>Marsilea vestita</i>		<i>Pogogyne nudiuscula</i>
<i>Malvella leprosa</i>		<i>Psilocarphus brevissimus</i>
<i>Branchinecta</i> spp.	•	<i>Branchinecta sandiegonensis</i>
<i>Branchinecta lindahli</i>		<i>Streptocephalus woottoni</i>



Proctor Valley
Vernal pool 1 looking southeast

3.2.8.b Otay Lakes includes series 3, 5, 10, and 13 of the “K” complex. Adjacent to the east side of Lower Otay Reservoir, these 87 vernal pools cover 125,779 square feet on two City-owned parcels totalling 632 acres. These basins are not conserved at this time and this site has been impacted by grazing. Two plant species covered by the MSCP were noted on-site: *E. aristulatum* was observed at 47 basins with a total cover of 1,645 square feet and *N. fossalis* was observed in two basins with a total cover of 24

square feet. Bauder (1986) noted these species at K 3-5. Vernal pool indicator species and fairy shrimp noted at this site are listed in Table 34. Fairy shrimp (*Branchinecta* spp.) were observed in six basins, but were not identified by species. The area was not surveyed for amphibians. For a map of this site, refer to 162-1785 in Appendix C.

Table 34		
Otay Lakes		
Presence of Vernal Pool Indicator Species		
<i>Callitriche marginata</i>	• <i>Myosurus minimus</i>	
<i>Crassula aquatica</i>	• <i>Navarretia fossalis</i>	•
<i>Deschampsia danthoniodes</i>	• <i>Orcuttia californica</i>	
<i>Downingia cuspidata</i>	<i>Phalaris lemmonii</i>	•
<i>Elatine californica</i>	<i>Phalaris</i> spp.	
<i>Epilobium pygmaeum</i>	<i>Pilularia americana</i>	
<i>Eryngium aristulatum</i>	• <i>Pilularia</i> spp.	
<i>Isoetes howellii</i>	<i>Plagiobothrys acanthocarpus</i>	•
<i>Isoetes orcuttii</i>	<i>Plantago elongata</i>	
<i>Isoetes</i> spp.	<i>Plantago</i> spp.	
<i>Lilaea scilloides</i>	<i>Pogogyne abramsii</i>	
<i>Marsilea vestita</i>	<i>Pogogyne nudiuscula</i>	
<i>Malvella leprosa</i>	<i>Psilocarphus brevissimus</i>	•
<i>Branchinecta</i> spp.	• <i>Branchinecta sandiegonensis</i>	
<i>Branchinecta lindahli</i>	<i>Streptocephalus woottoni</i>	



Otay Lakes
Vernal pool 71 looking south

(Photo by Scott McMillan, 2001)



Otay Lakes
Vernal pool 12 looking north

(Photo by Scott McMillan, 2001)

3.2.9 Otay Mesa

Along the Mexican border, Otay Mesa is the southernmost extent of vernal pools under U. S. jurisdiction. Within the City of San Diego, 979 basins are distributed from Otay Ranch to Mexico, Chula Vista to Otay Mountain. These vernal pools have been divided into 29 sites in the “J” complex, series 2, 4, 5, 11, 12, 13, 14, 15, 16, 17,