Appendix D. Proposed Pond Locations

Five potential sites for pond creation have been identified, however, locations may change as further detailed study is needed to determine optimal pond location, size, and depth.

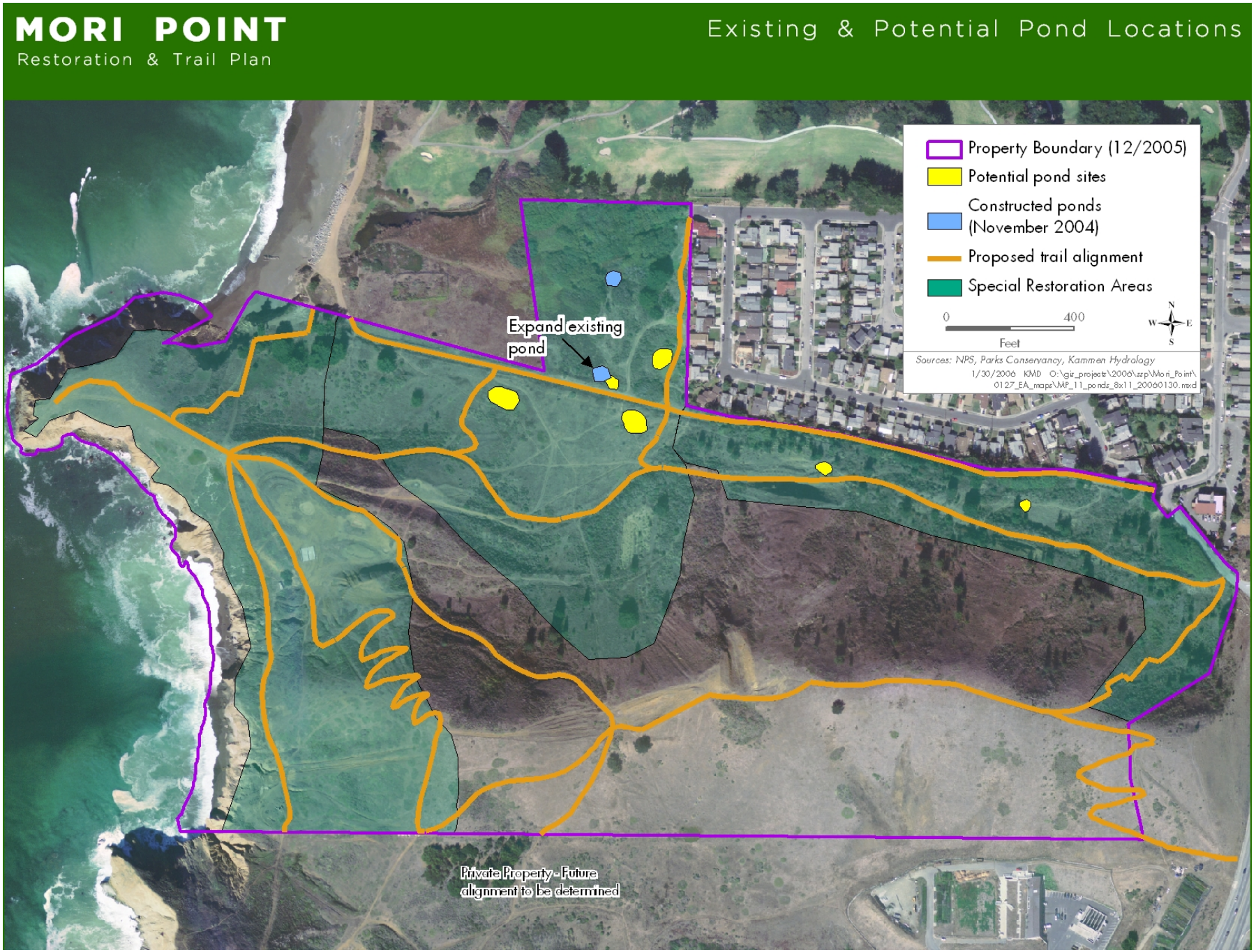
Proposed Pond Location 1 is on the western side of the property between the Upper Trail and Mori Road. It was selected for its close proximity to perennially saturated soils and the dense willow canopy located immediately to the north. The primary limiting factor for long-term sustainability of this pond is water supply. There does not appear to be substantial surface water runoff directed to the vicinity of the pond, nor is there shallow groundwater at this site. Thus, successful pond creation at this site will require some regrading of upland slopes in order to direct runoff to this location.

Proposed Pond Location 2 is a large flat expanse below the road quarry along the Upper Trail. This site was identified for its ease of access and for the potential for redirecting water from a nearby drainage into a pond. Currently, runoff from the surrounding hillside is concentrated in a small channel located immediately east of Pond Location 2. The outfall of this drainage is directed through a V-shaped notch in the retaining wall on Mori Road and ultimately to the drainage ditch running along the southern side of Mori Road. It appears that this drainage could easily be rerouted to the west to supply a pond with surface water run off. Ground water would not be a substantial source of water supplied to a pond in this location.

Proposed Pond Location 3 is located near Fairway Trail just north of Mori Road. A pond in this location would receive run off from the roadside ditch as a primary water supply. This would entail redirecting ditch flow through a culvert beneath the road at a location several hundred feet east of the existing culvert crossing. Groundwater levels and water supply from the ditch would need to be identified before pond construction.

Proposed Pond Location 4 is in a stream depression and water to a pond constructed here would capture runoff concentrated from the upland Bowl area. Pond outflow would be directed to the existing Southern Pond. This would entail removing a substantial portion of the earthen berm, located along the south side of Mori Road, and creating a bridge or elevated causeway road surface. In essence, this work would create a more natural hydrologic connection between the upland Bowl area and the lower freshwater marsh habitat located on the north side of Mori Road. In addition to accommodating a more natural water flow, these changes would enable unrestricted migration of the San Francisco garter snake and other wildlife in the area.

Proposed Pond Location 5 is further west near the CCT Bowl Connector in a known seep area. This pond would rely on groundwater seepage as its primary water source as there are no existing surface water drainage features directing runoff to this location. Prior to design of this pond, monitoring of shallow groundwater conditions and water table variability throughout the year will need to be conducted. A potential benefit of a seep/spring fed pond is substantially lower sediment input and a longer life span.


MORI POINT
Restoration & Trail Plan
Existing & Potential Pond Locations
Property Boundary (12/2005)
Potential pond sites
Constructed ponds (November 2004)
Proposed trail alignment
Special Restoration Areas
0
400
Feet
N
W
E
S
Sources: NPS, Parks Conservancy, Kammen Hydrology
1/30/2006 KMD O:\gis_projects\2006\sspt\Mori_Point\0127_EA_maps\MP_11_ponds_8x11_20060130.mxd
Expand existing pond
Private Property - Future alignment to be determined