

Appendix D-3

Topock Groundwater Remediation Project Ethnobotany Survey Report



Topock Project Executive Abstract

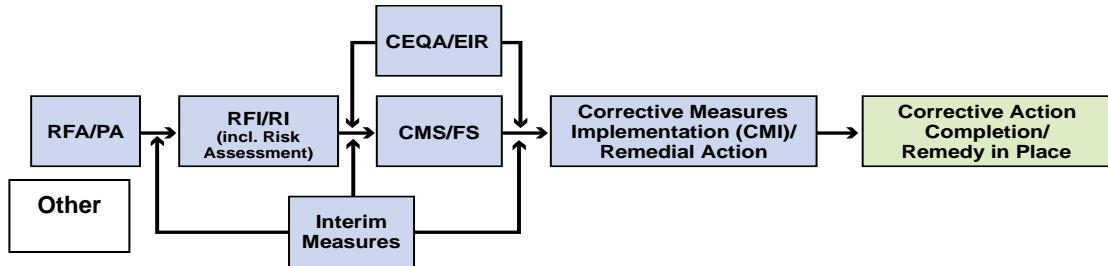
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<p>What does this information pertain to?</p> <p><input type="checkbox"/> Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA)</p> <p><input type="checkbox"/> RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment)</p> <p><input type="checkbox"/> Corrective Measures Study (CMS)/Feasibility Study (FS)</p> <p><input type="checkbox"/> Corrective Measures Implementation (CMI)/Remedial Action</p> <p><input checked="" type="checkbox"/> California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR)</p> <p><input type="checkbox"/> Interim Measures</p> <p><input type="checkbox"/> Other / Explain:</p>	<p>Is this a Regulatory Requirement?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>If no, why is the document needed?</p>
<p>What is the consequence of NOT doing this item? What is the consequence of DOING this item?</p> <p>This report presents data collected during surveys made in compliance with the EIR mitigation measure, and CUL-1a-5. If this work was not performed, it would constitute a non-compliance with the EIR mitigation measure.</p>	<p>Other Justification/s:</p> <p><input type="checkbox"/> Permit <input type="checkbox"/> Other / Explain:</p>
<p>Brief Summary of attached document:</p> <p>The Final Environmental Impact Report (EIR) for the Topock Compressor Station Groundwater Remediation Project prescribes mitigation measures to reduce impacts associated with the groundwater cleanup. Mitigation measure CUL-1a-5 for cultural resource protection required a survey for ethnobotanically significant plants, with data for use in remedy design planning. In order to collect this data, a comprehensive floristic survey was performed with field effort in August and November 2011, and March 2012. This report presents the results of the ethnobotanically significant plant findings and detailed maps of plant occurrence, as well as appendices of photographs and GPS data. Thirteen plants from the EIR list of 54 potentially occurring, ethnobotanically significant plants (ethnoplants) were found in the surveys; 5 of these are trees, 3 are shrubs, and 5 are herbs in growth habit. Because the EIR list of potentially occurring ethnoplants was based on a large region including areas in Arizona with higher elevations and greater precipitation, the occurrence of 13 of the 54 ethnoplants at the Topock project area is not surprising. Avoidance and restoration plans for ethnobotanically significant plant communities are included. The results of the comprehensive Floristic survey that was performed in three mobilizations from August 2011 to March 2012 in order to collect this data are presented in a separate Floristic and Rare Plant Survey Report. The data presented with this report will be considered in the remedy design.</p>	
<p>Written by: PG&E</p> <p>Recommendations:</p> <p>This report is for your information only.</p> <p>How is this information related to the Final Remedy or Regulatory Requirements:</p> <p>This report presents data collected for use with the remedy design. The Ethnobotany Plant Survey collected data for compliance with EIR mitigation measure CUL-1a-5.</p>	

Other requirements of this information?

None.

Related Reports and Documents:

Click any boxes in the Regulatory Road Map (below) to be linked to the Documents Library on the DTSC Topock Web Site (www.dtsc-topock.com).



Legend

RFA/PA – RCRA Facility Assessment/Preliminary Assessment
RFI/RI – RCRA Facility Investigation/CERCLA Remedial Investigation (including Risk Assessment)
CMS/FS – RCRA Corrective Measure Study/CERCLA Feasibility Study
CEQA/EIR – California Environmental Quality Act/Environmental Impact Report

Version 9

FINAL

Topock Groundwater Remediation Project Ethnobotany Survey Report

Prepared for
Pacific Gas and Electric Company



March 29, 2013

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Garcia and Associates (GANDA)
and
CH2M HILL



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- A Target List of Culturally Significant Plant Species from Appendix PLA of the EIR with the Potential to Occur in the Project Area
- B Vascular Plant Species Observed at the Topock Groundwater Remediation Project Site
- C Photographs from Survey Segments of the Project Area
- D Photographs of Plants of Cultural Significance Found in the Project Area
- E Avoidance and Restoration Plan for Culturally Significant Plant Species
- F Locations for Culturally Significant Plants in the Project Area

Acronyms and Abbreviations

ADA	Arizona Department of Agriculture
BN&SF	Burlington Northern and Santa Fe
BLM	Bureau of Land Management
CCH	California Consortium of Herbaria
CDNPA	California Desert Native Plants Act
CEQA	California Environmental Quality Act
CNDB	California Natural Diversity Database
CNPS	California Native Plant Society
CDFG	California Department of Fish and Game
CRPR	California Rare Plant Ranking
DTSC	California Department of Toxic Substance Control
EIR	Environmental Impact Report
ethnoplants	culturally significant plants
GPS	Global Positioning System
I-40	Interstate 40
PG&E	Pacific Gas and Electric Company
Project Area	PG&E Topock Groundwater Remediation Project Area
TCS	Topock Compressor Station
USFWS	U.S. Fish and Wildlife Service

SECTION 1

Introduction

Pacific Gas and Electric Company (PG&E) is implementing the final groundwater remedy to address chromium in groundwater near the PG&E Topock Compressor Station, located in eastern San Bernardino County 15 miles southeast of the city of Needles, California. The California Department of Toxic Substance Control (DTSC) is the state lead agency overseeing corrective actions at the compressor station. Pursuant to the California Environmental Quality Act (CEQA), DTSC (2011) prepared and certified an Environmental Impact Report (EIR) that evaluated and prescribed mitigation measures to lessen the potential environmental impacts of the final groundwater remedy. The location of the Compressor Station is indicated in Figure 1 and the Project Area is depicted in Figure 2. The EIR Mitigation Measure CUL-1a-5 requires PG&E to avoid, protect, and encourage the regeneration of the culturally significant plants listed in Appendix PLA of the EIR. The purpose of this report is to establish a comprehensive list of culturally significant plant species that occur in the PG&E Topock Groundwater Remediation Project Area (Project Area). These plants have played an important role in the lives of tribes, and it is therefore important to document their presence and distribution in the Project Area. The list of potential culturally significant plants or “ethnoplants” is derived from the Appendix PLA of the January 2011 EIR (DTSC, 2011) which in turn is derived principally from Castetter (1935) and Minnis (2000).

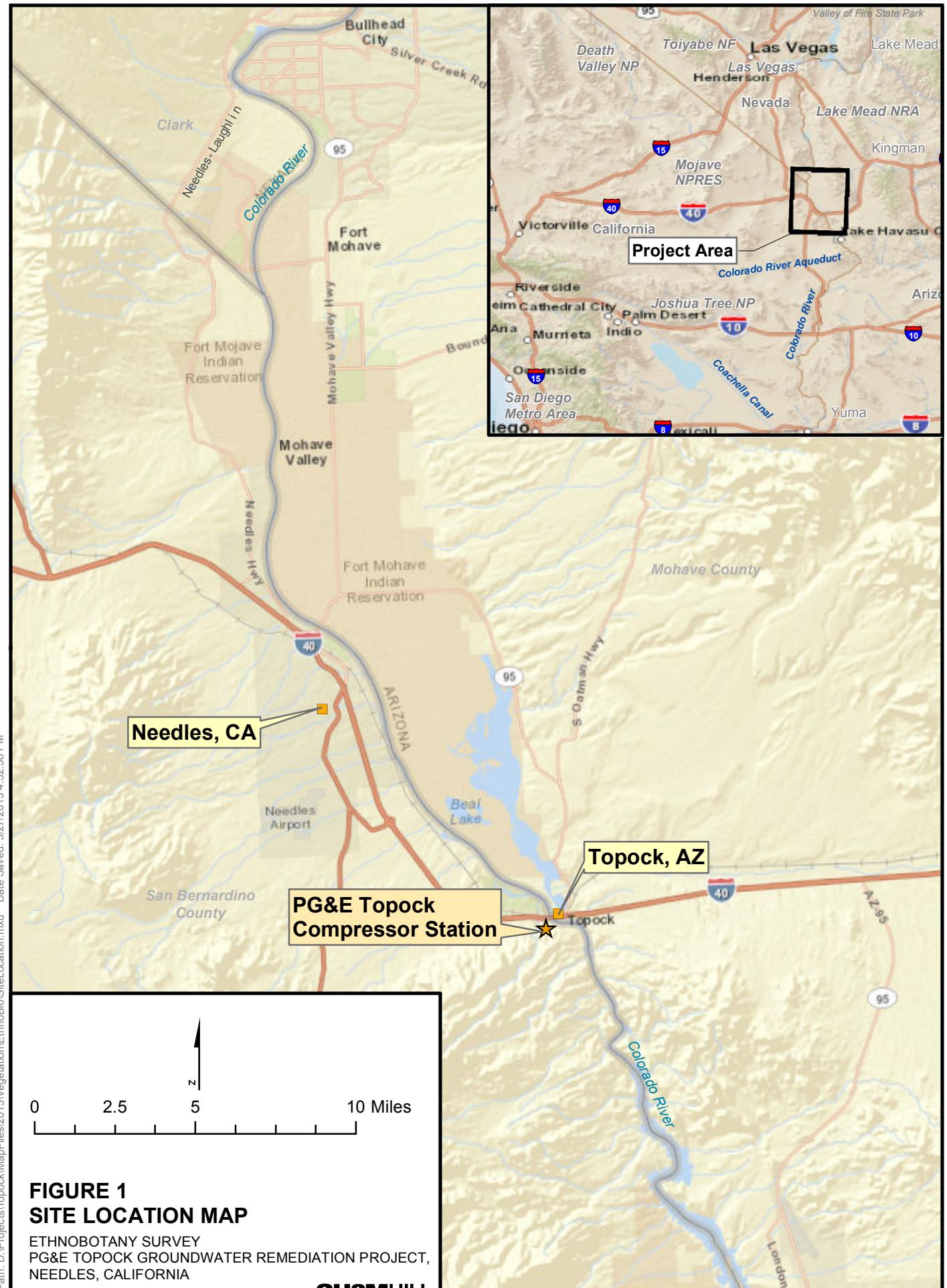
1.1 Project Area

The Topock Compressor Station (TCS) is located near the California and Arizona border in eastern San Bernardino County, approximately 12 miles southeast of the city of Needles, California (Figure 1). The town of Topock, Arizona is located approximately one-half mile to the east. Access to the compressor station is from the Park Moabi Road exit off of Interstate 40 (I-40). At Moabi Regional Park, the roadway connects to National Trails Highway, which extends eastward and then southward for approximately one mile along the Colorado River to the TCS.

1.2 Survey Area

The Survey Area encompasses the entire Project Area and totals approximately 780 acres. It varies in elevation from approximately 400 to 700 feet above sea level.¹ The survey team arbitrarily divided the Project Area into twelve segments (A—L). One of these, Segment K which contains new evaporation ponds in operational use by PG&E TCS, was excluded from the Survey Area after August and fall surveys were completed because this location is outside of the EIR project area. Of the remaining 11 segments, eight (A, B, C, D, E, H, I, and L) are located in San Bernardino County, California, and three (F, J, and G) are located in Mohave County, Arizona (Figure 2). Segments of the Project Area within California are primarily on land managed by the Bureau of Land Management (BLM) or U.S. Fish and Wildlife Service (USFWS); with the exception of portions of segments C and D, which are owned by the Fort Mojave Indian Tribe; and a portion of Segment H, which is owned by PG&E. On the Arizona side of the Colorado River, Segment F and most of Segment G are part of the USFWS Havasu National Wildlife Refuge, and land in Segment J and a portion of Segment G are on privately owned land.

¹ The Burlington Northern Santa Fe railroad and Interstate 40 rights-of-way are within the boundaries of the Project Area; however, they were not included in the Floristic Survey because the project is not anticipated to impact these right-of-way areas.





LEGEND

Survey Segments

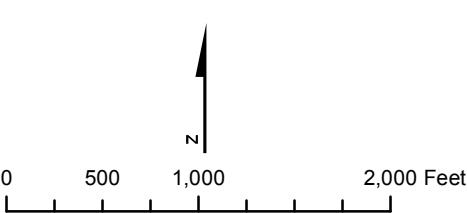


FIGURE 2
PROJECT AREA WITH BOTANICAL SURVEY SEGMENTS

ETHNOBOTANY SURVEY
PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT,
NEEDLES, CALIFORNIA

Vegetation Communities of the Project Area

There are ten primary terrestrial plant community types, and three major wetland communities in the Project Area. The primary terrestrial plant community types are creosote bush scrub, tamarisk thickets, arrow weed thickets, blue palo verde woodlands, catclaw acacia thorn scrub, foothill palo verde scrub, allscale scrub, quailbush scrub, western honey mesquite bosque, and screwbean mesquite bosque (Sawyer et al. 2009). The primary wetland communities include California bulrush marshes, cattail marshes, and common reed marshes. Descriptions of these primary plant communities are provided in the following sections. A detailed vegetation map with additional community types found in the Project Area is provided in Figure 3.

2.1 Terrestrial Communities

2.1.1 Creosote Bush Scrub

The most common and widespread plant community in the Project Area is creosote bush scrub. This vegetation type is characterized by widely-spaced creosote bush (*Larrea tridentata*) with associated species such as white bursage (*Ambrosia dumosa*), white ratany (*Krameria bicolor*), brittlebush (*Encelia farinosa*), beavertail cactus (*Opuntia basilaris* var. *basilaris*), and silver cholla (*Cylindropuntia echinocarpa*). Creosote brush scrub occurs throughout the dissected alluvial terraces in the Project Area (Appendix C, Plate 5, G-5).

2.1.2 Tamarisk Thicket

Tamarisk thicket is found primarily on the low sandy terraces adjacent to the Colorado River and Park Moabi Slough (Appendix C, Plate 3, E-1 and E-2). This vegetation type is also found near the terminus of the larger ephemeral washes associated with the dissected terraces south of the Colorado River (Appendix C, Plate 3, D-2). Vegetation is characterized by open to dense stands of the non-native and invasive salt cedar (*Tamarix ramosissima*). In many locations salt cedar trees and shrubs occur as monospecific stands; in other areas associated trees include athel (*Tamarix aphylla*), western honey mesquite (*Prosopis glandulosa* var. *torreyana*), screwbean mesquite (*Prosopis pubescens*), blue palo verde (*Parkinsonia florida*) and arrow weed (*Pluchea sericea*). Herbaceous vegetation is absent within dense thickets of salt cedar, but occurs in openings between such thickets where scattered individuals of fanleaf crinklemat (*Tiquilia plicata*), Spanish needle (*Palafoxia arida*) and *Cryptantha* spp. may be present.

2.1.3 Arrow Weed Thicket

Arrow weed thicket is also found on the low sandy terraces along the Colorado River and Park Moabi Slough (Appendix C, Plate 4, F-1). Arrow weed is the sole dominant shrub species occurring on the sandy terraces, with individuals widely scattered or aggregated into dense, nearly impenetrable stands. This type often inter-digitates with tamarisk thickets and mesquite bosque. Associated species include salt cedar, smoke tree (*Psorothamnus spinosus*), western honey mesquite, brittlebush, and broom baccharis (*Baccharis sarothroides*). Scattered herbaceous vegetation in the more open areas includes fanleaf crinklemat, Spanish needle, *Cryptantha* spp., and Mediterranean grass (*Schismus barbatus*).

2.1.4 Blue Palo Verde Woodland

Blue palo verde woodland is restricted to the edges and channel bottoms of the ephemeral washes in the dissected alluvial terraces that characterize the largest portion of the Project Area south of the Colorado River. Total vegetation cover is generally low, but species diversity is relatively high compared to the other vegetation types in the Project Area. Blue palo verde is the dominant tree with scattered individuals of salt cedar, athel, and smoke tree also present in some areas. Associated shrubs include catclaw acacia (*Senegalia greggi*), Anderson's desert-thorn (*Lycium andersonii*), brittlebush, sweetbush (*Bebbia juncea* var. *aspera*), cheesebush (*Ambrosia salsola*), climbing milkweed (*Funastrum hirtellum*), desert lavender (*Hyptis emoryi*), white bursage, white ratany, and creosote bush. Common herbaceous species include small-seeded spurge (*Chamaesyce polycarpa*), small-

flowered California poppy (*Eschscholzia minutiflora*), Emory rock daisy (*Perityle emoryi*), Spanish needle, and Arizona lupine (*Lupinus arizonicus*).

2.1.5 Catclaw Acacia Thorn Scrub

In the Project Area catclaw acacia thorn scrub is limited to the bottoms of moderate-sized ephemeral washes in the dissected terraces south of the National Trails Highway. This vegetation type is characterized by widely scattered shrubs dominated by catclaw acacia. Common associated species include Anderson's desert thorn, brittlebush, sweetbush, cheesebush, desert lavender, white bursage, white ratany and creosote bush. Herbaceous species include small-seeded spurge, Arizona lupine, and Spanish needle.

2.1.6 Foothill Palo Verde Scrub

Foothill palo verde scrub is restricted to a small area east of the compressor station along the slopes of the Chemehuevi Mountains (Appendix C, Plate 6, I-3). Vegetation in this area is characterized by scattered hillside palo verde (*Parkinsonia microphylla*). Associated species in this area include creosote bush, pygmy-cedar (*Peucephyllum schottii*), brittlebush, white ratany, beavertail cactus, buckhorn cholla (*Cylindropuntia acanthocarpa*), California barrel cactus (*Ferocactus cylindraceus* var. *cylindraceus*), and inflated desert trumpet (*Eriogonum inflatum* var. *inflatum*).

2.1.7 Quailbush Scrub

Quailbush scrub is dominated by big saltbush (*Atriplex lentiformis*) and occurs on low-lying alkaline or saline soils (Sawyer et al. 2009). In the Project Area, it is most common in along Arizona County Road 10, formerly Route 66. On the north side of the road, it occurs on sandy saline/alkaline soils north of the Topock Marsh on the Havasu National Wildlife Refuge (Appendix C, Plate 4, G-3). The only common associate at this site is bush seepweed (*Suaeda moquinii*). Quailbush scrub also occurs in disturbed areas near the Colorado River around Park Moabi and on the edge of arrow weed thickets at the foot of the southernmost gas line bridge (Appendix C, Plate 6, J-1).

2.1.8 Allscale Scrub

Allscale scrub is dominated by cattle saltbush (*Atriplex polycarpa*) and is the most common alkaline tolerant shrubland alliance in the Project Area. In the Project Area, allscale scrub occupies a portion of a broad flat wash in south of the National Trails Highway (Appendix C, Plate 2, C-1) where it occurs with creosote bush. This alliance also occurs at other scattered locations along the National Trails Highway south of the Colorado River.

2.1.9 Western Honey Mesquite Bosque

In the Project Area western honey mesquite bosque is restricted to the low sandy terraces along the Colorado River. This community is dominated by western honey mesquite and often includes salt cedar and arrow weed as associates (Appendix C, Plate 4, F-2).

2.1.10 Screwbean Mesquite Bosque

Screwbean mesquite bosque is also restricted to the low sandy terraces along the Colorado River in the Project Area. This community is dominated by screwbean mesquite and is most abundant where the outlet from the Topock Marsh enters the Colorado River across from the Topock Marina (Appendix C, Plate 4, F-2). It is also a principal component of the screwbean/tamarisk thicket vegetation that covers the southern portion of the Park Moabi peninsula and is common near the Burlington Northern and Santa Fe (BN&SF) railroad bridge on the north side of the National Trails Highway.

2.2 Wetland Communities

Along the Colorado River and its inlets are patches of wetlands with various marsh plants forming three principal wetland communities, from the mostly submerged cattail (*Typha latifolia*) marshes and California bulrush (*Schoenoplectus californicus*) marshes, to the adjacent but somewhat drier common reed (*Phragmites australis*) marshes. The common reed marshes are concentrated and most extensive at the River's edge in south of the I-40 bridge (Appendix C, Plate 6, I-1), whereas the bulrush marshes occur in scattered locations along the Colorado

River and Park Moabi Slough throughout the Project Area. It is likely that the common reed species in the Project Area is an invasive, non-indigenous form of *Phragmites australis*.

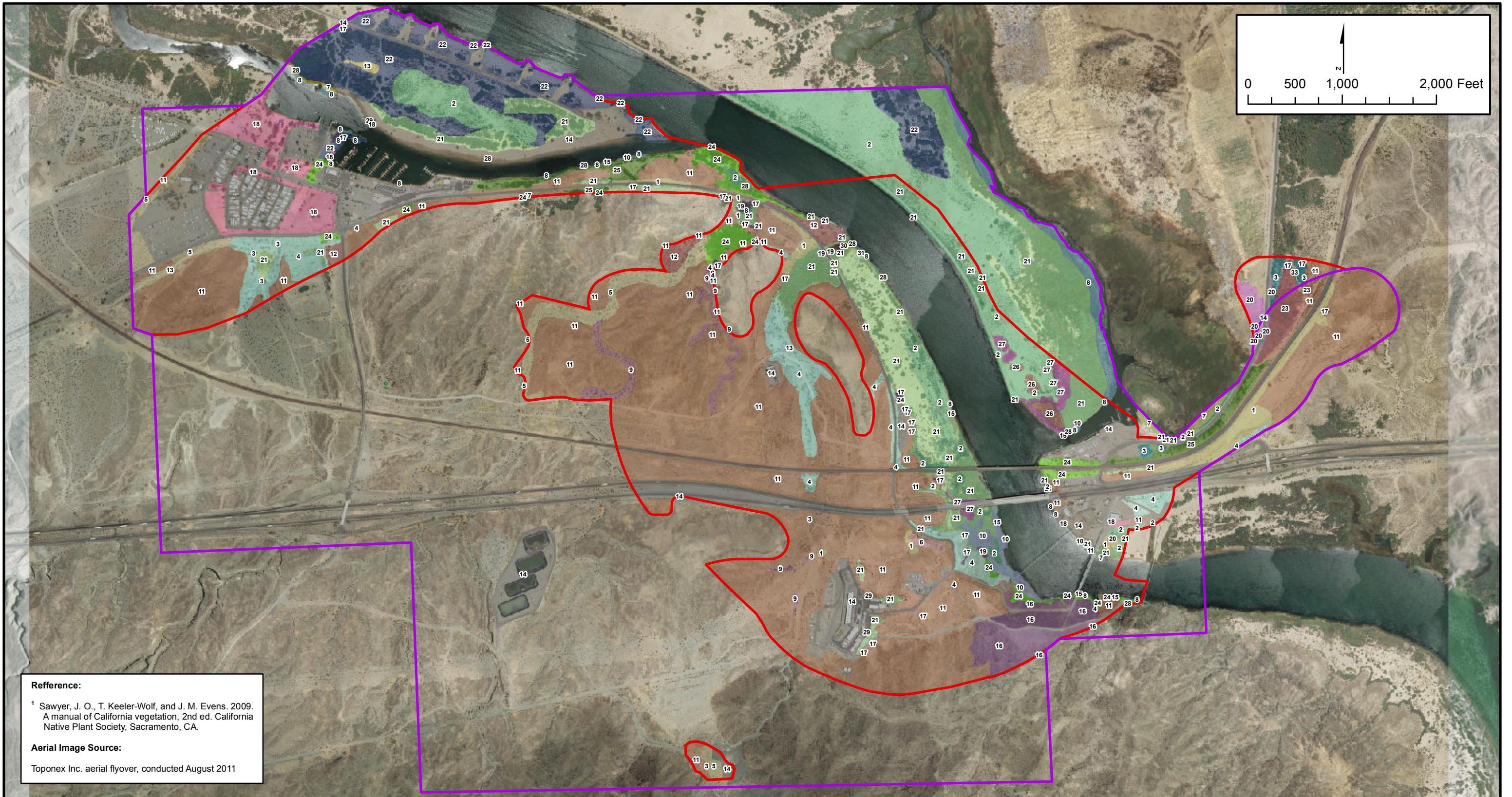


FIGURE 3
VEGETATION COMMUNITIES
IN PROJECT AREA
ETHNOBOTANY SURVEY
PG&E TOPOCK GROUNDWATER
REMEDIATION PROJECT,
NEEDLES, CALIFORNIA

SECTION 3

Survey Segments in the Project Area

Segment A: The western portion of Segment A north of National Trails Highway is developed and landscaped and is publicly owned (Moabi Regional Park) and privately (Pirates Cove Resort and Marina) owned. The developed portion of Moabi Regional Park includes offices, a mobile home park, RV storage lots, parking areas, camping areas, and a boat launch (Appendix C, Plate 1, A-4); whereas the Pirate's Cove portion includes the marina, a store, a restaurant, vacation housing, and paved and unpaved parking lots (Appendix C, Plate 1, A-5). The landscaped areas of Moabi Regional Park and Pirate's Cove are planted primarily with Mexican fan palm (*Washingtonia robusta*), but they also include California fan palm (*Washingtonia filifera*), honey mesquite, Fremont's cottonwood (*Populus fremontii*), eucalyptus (*Eucalyptus spp.*), and other native and exotic landscape plants (Appendix C, Plate 1, A-4). Undeveloped areas with natural vegetation are restricted primarily to areas to the south of National Trails Highway (Appendix C, Plate 1, A-1, A-2), with the exception of the sewage disposal ponds on the southwest corner of Park Moabi Road and National Trails Highway (Appendix C, Plate 1, A-3). On the south side of National Trails Highway, there is a broad dry wash that is partially channelized and includes blue palo verde, smoke tree, and creosote bush (Appendix C, Plate 1, A-1). This wash drains into a low-lying area covered with blue palo verde woodland, and tamarisk and athel thickets. The flat-topped hill to the south and west of the wash is covered with desert pavement on top and steep gravelly slopes on the sides (Appendix C, Plate 1, A-2). This hill is with creosote bush scrub that is dominated almost exclusively by creosote bush and beavertail cactus.

The eastern portion of Segment A resembles a pan handle (Figure 2) and is covered primarily in creosote bush scrub on the prominent rocky hills. On the adjacent flats are small patches of a variety of other vegetation types including wetlands with California bulrush, common reed and giant reed (*Arundo donax*) along the edge of the cove. Away from the water's edge are tamarisk thickets, mixed honey mesquite/tamarisk thickets, screwbean mesquite thickets, arrow weed thickets, a cattail marsh, and creosote bush and allscale scrub. On the south side of National Trails Highway are hills covered in creosote bush scrub with the low areas characterized by tamarisk thickets or tamarisk/western honey mesquite thickets.

Segment B: This Segment is a peninsula that was partially created with dredge sands from the Colorado River. The central portion of the peninsula is dominated by arrow weed thickets (Appendix C, Plate 1, B-1) and tamarisk thickets with and fanleaf crinklemat, and open sandy areas with scattered individuals of honey mesquite, smoke tree, and creosote bush. The river's edge is mostly disturbed with a series of RV camping pads (Appendix C, Plate 2, B-2) and restrooms. Landscape plantings in this area include Fremont's cottonwood, eucalyptus, and athel. On the cove side is a small wetland area dominated by California bulrush, cattail, geniculate spike rush (*Eleocharis geniculata*), rough-glume bushy blue stem (*Andropogon glomeratus* ssp. *scabriglumis*) and other wetland plants. The majority of the cove side is characterized by a cleared and maintained beach (Appendix C, Plate 2, B-3).

Segment C: This Segment consists of alluvial terraces dissected by small natural drainage channels that converge on a single broad sandy wash. The wash is occupied primarily by blue palo verde woodland with catclaw acacia scrub, and an area of creosote bush mixed with cattle salt bush (Appendix C, Plate 2, C-1, C-2, C-3). There is also a large area containing tamarisk thickets near the National Trails Highway. The surrounding rocky hills are covered with creosote bush scrub dominated by creosote bush and white bursage. The tops of the hills are mostly flat and rocky with desert pavement.

Segment D: This Segment is similar to Segment C and dominated by one major wash system, (Bat Cave Wash). Most of this wash is dominated by blue palo verde woodland with occasional smoke trees (Appendix C, Plate 3, D-1), but it ends in an extensive tamarisk and mesquite bosque thicket (Appendix C, Plate 3, D-2) before passing under the road and emptying into the Colorado River (Appendix C, Plate 3, E-3).

Segment E: This Segment is mostly a sandy flood plain extending northward from the I-40 bridge to just beyond the outlet for Bat Cave Wash into the Colorado River. The sandy nature of the flood plain is due to dredge sands deposited during the channelization of the Colorado River. The major vegetation types in this Segment are arrow

weed and tamarisk thickets (Appendix C, Plate 3, E-1 and E-2). There are also some rocky upland slopes dominated by creosote bush scrub, with scattered individuals of blue palo verde and honey mesquite extending up to the National Trails Highway along the western edge of the Segment. There is also a small area of creosote bush scrub with a narrow strip of tamarisk thickets on the northwest of the Bat Cave Wash inlet (Appendix C, Plate 3, E-3 and E-4).

Segment F: This Segment is in Arizona, directly across the Colorado River from Segment E. Similar to Segment E, it consists mainly of dredge sands dominated by arrow weed thickets (Appendix C, Plate 4, F-1), tamarisk thickets or tamarisk thickets mixed with athel or screwbean mesquite. However, unlike Segment E, there are no areas of upland rocky hills with creosote bush scrub vegetation. Instead, this Segment has a lowland area at its southern tip that includes screwbean mesquite and tamarisk thickets, as well as a small wetland along the southern edge across from the Topock Marina (Appendix C, Plate 4, F-2). This wetland is dominated by California bulrush, common reed, and sand-bar willow (*Salix exigua*), with some marsh fleabane (*Pluchea odorata*), geniculate spikerush and other wetland species (Appendix C, Plate 4, F-3).

Segment G: This Segment in Arizona is bisected by the BN&SF railroad tracks. On the north side of the tracks at the western end is the Topock Marina with a mobile home park and associated parking areas. On the northwest side of the road at the eastern end is a small portion of the Topock marsh that is dominated by California bulrush (Appendix C, Plate 4, G-1). Between the road and the tracks is a strip of tamarisk/honey mesquite/blue palo verde thicket that grades into a denser stand of salt cedar as one progresses northeastward (Appendix C, Plate 4, G-2). Further along County Road 10 (formerly Route 66), there is a sandy alkaline/saline area dominated by big saltbush with scattered shrubs of bush seepweed (Appendix C, Plate 4, G-3). There is also a section of big saltbush scrub on the southeast side of the road. The largest portion of Segment G, however, consists of upland hills dominated by creosote bush scrub in the northeast portion of the Segment (Appendix C, Plate 5, G-5). Most of this area is accessed from a gravel road that goes to a small PG&E facility. The western part of this area south of the railroad tracks is sandy and flat and although disturbed by roads at its western end, is relatively rich in annuals and allscale scrub at the eastern end.

Segment H: This Segment is botanically interesting and diverse because it encompasses two areas of different geologic history that profoundly influence soils and vegetation (Appendix C, Plate 5, H-3). The northern two-thirds of the Segment consist of alluvial terraces primarily of tertiary origin, whereas the southern one-third consists of pre-tertiary metamorphic/igneous bedrock that forms the northernmost extension of the Chemehuevi Mountains. The TCS, its auxiliary structures and landscaping, are built on the alluvial terraces. The slopes around and just below the TCS are disturbed, highly eroded and mostly devoid of natural vegetation (Appendix C, Plate 5, H-1). Segment H also includes part of Bat Cave Wash, a major dry wash system that starts in Segment L and finishes in Segment E (Appendix C, Plate 5, H-2). The rocky north-facing slopes composed of metadiorite, gneiss, and granitic rocks provide a rich substrate for succulents, including California barrel cactus, buckhorn cholla, and corkseed mammillaria (*Mammillaria tetrancistra*) (Appendix C, Plate 5, H-4). These rocky slopes also provide habitat for hillside palo verde, and Pima rhatany (*Krameria erecta*); species that occur only on this rock formation. Two vegetatively similar species of *Asclepias* (*A. subulata* and *A. albicans*) that occur in this Segment, as do two similar species of *Krameria* (*K. bicolor* and *K. erecta*), and two similar species of *Parkinsonia* (*P. florida* and *P. microphylla* and possible hybrids) (Appendix D, Plate 1).

Segment I: Segment I runs along the Colorado River from the I-40 bridge in the north to the southernmost gas transmission line bridge in the south (Appendix C, Plate 6, I-2 and I-3). This Segment is similar to Segment H because it includes both the pre-tertiary bedrock of the Chemehuevi Mountains and the more recent tertiary alluvial terraces common in the more northerly Survey Segments (e.g., Segments A, C, D, G and E). Unlike Segment H, however, it includes a distinctive reddish Miocene conglomerate bedrock that is exposed below the Route 66 sign, as well as wetlands along the edge of the Colorado River that sit on recent (Quaternary) alluvial deposits (Appendix C, Plate 6, I-1). The Miocene conglomerate in this area includes the only known location for rock nettle (*Euclidia urens*) within the Project Area.

Segment J: This Segment is a small one that is developed and landscaped with private residences set back on the hills overlooking the Colorado River in Arizona. The slopes above the river are variously terraced and landscaped, yet there are a few patches of native vegetation that remain near the river's edge. These patches include common reed marsh, arrow weed thickets, quailbush scrub (Appendix C, Plate 6, J-1), and tamarisk thickets, as well as California bulrush and cattail marshes. There is also landscaping with Mexican fan palms and a variety of other cultivated plants on the river's edge (Appendix C, Plate 6, J-2). Segment J contains a small area of partially degraded slopes above a wash at the east end of the Segment that is accessed from a road that drops down to the south from the frontage road next to I-40. These slopes are characterized by degraded creosote bush scrub, while the wash has remnants of blue palo verde woodland.

Segment L. This Segment is located next to a quarry site in a small valley approximately 0.3 miles southwest of the compressor station and consists mainly of a flat, but gently sloping (to the northeast) dry wash which is a continuation of the Bat Cave Wash drainage system. The wash is characterized by scattered blue palo verde and catclaw acacia, whereas the surrounding hills are covered with creosote bush scrub vegetation. The eastern portion of Segment L is covered by rocks from the gravel quarry and is devoid of vegetation. These rocks have been taken from the pre-tertiary bedrock that forms the northern extension of the Chemehuevi Mountains (Appendix C, Plate 6, L-1).

Methodology

4.1 Research and Literature Review

Pursuant to Mitigation Measure CUL-1a-5,

"Should any indigenous plants of traditional cultural significance and listed in Appendix PLA of this FEIR be identified within the project area, PG&E shall avoid, protect, and encourage the natural regeneration of the identified plants when developing the remediation design, final restoration plan, and IM-3 decommission plan...."

The purpose of the ethnobotany survey is to comply with Mitigation Measure CUL-1a-5, obtain a comprehensive inventory of plant species that occur in the Project Area, and to ensure that sensitive plants (i.e., special-status and culturally significant plant species as described below) are detected, mapped and recorded. Therefore, prior to conducting the survey, research was conducted to: 1) determine the appropriate times to conduct surveys to maximize the potential for identifying plants that occur in the East Mojave Desert, and 2) identify special-status and culturally significant plant species with a potential to occur in the Project Area.

Research included consideration of rainfall patterns in the East Mojave Desert, and specifically, the potential timing of fall and spring surveys. Rainfall in the East Mojave Desert exhibits a bimodal pattern, with most rainfall occurring in the winter and a significant proportion of annual rainfall occurring in the late-summer. To ensure the proper timing for both fall and spring surveys, a regional botanical expert and director of the University of California Riverside, Granite Mountains Research Center, Jim Andre, Ph.D., was contracted to review survey planning and timing. Dr. Andre was also consulted on the target plant lists, and joined the field survey team for a pre-survey reconnaissance and orientation towards locally occurring special-status plants. Based on late summer and early fall rainfall in 2011, it was decided to conduct a fall survey at the beginning of November. The spring survey 2012 was planned for mid-March based on preliminary observations made during a wetland delineation conducted by ecologist and botanist Russell Huddleston/CH2M HILL and senior botanist Kim Steiner/Garcia and Associates in mid-February and in consultation with Dr. Andre. Generally, the most productive timing for a spring survey in this area is mid- to late- March (Jim Andre, pers. comm.) and 2012 proved to fit this pattern. In some cases later than normal rains (e.g., February or March) can stimulate later than normal flowering and warrant a late spring survey. However in 2012, significant rainfall occurred too late to warrant an additional late spring survey (Jim Andre, pers. comm.).

4.2 Culturally Significant Plants

A plant species was considered culturally significant if it occurred on the list of Colorado River Indian Ethnobotany in the Appendix PLA in the EIR (DTSC, 2011).

Each species on the list of Colorado River Indian Ethnobotany in the Appendix PLA of the EIR was carefully considered with respect to potential to occur in the Project Area. The potential to occur in the Project Area or within 10 miles of the Project Area was based on the plant's known distribution, its elevation range and its habitat preference. A species was determined to have potential to occur within the Project Area if its known or expected geographic range included the Project Area or vicinity, and if its known or expected habitat was found within or adjacent to the Project Area.

The list of culturally significant plants was also cross checked against special-status plant species listed in the California Native Plant Society (CNPS) Inventory (CNPS,2012), the California Natural Diversity Database (CNDDB, 2012) RareFind3 database , the list of protected desert plants in the California Desert Native Plants Act (CDNPA, 1981), the Arizona rare plant field guide (Arizona Rare Plant Committee, 2001), the Arizona Department of Agriculture (ADA, 2012), the BLM special status plant list (BLM, 2011), and the Federal list of endangered plants (USFWS, 2011), in order to determine whether these culturally significant plants (ethnoplants) had additional legislated status (i.e., special-status) either federally, or by the states of California or Arizona. Each ethnoplant

species was searched for in the Jepson Online Interchange (2011), the database of the Consortium of California Herbaria (CCH, 2011), and in the Southwest Environmental Information Network (SEINet, 2011) to determine its distribution, habitat, and potential to occur in the Project Area.

In Appendix PLA of the EIR, staghorn cholla is listed as *Opuntia echinocarpa* (= *Cylindropuntia echinocarpa*), however, according to the Jepson Online Interchange (2011); the name staghorn cholla is not associated with this species. Instead, it notes that this common name has been associated with a variety of cholla species. CalFlora (2012) lists staghorn cholla as a common name for *C. echinocarpa*, but only as a less preferred secondary name. Searches of the common name staghorn cholla indicate that this name is most commonly associated with *Opuntia* (*Cylindropuntia*) *versicolor*, a species that is common in Arizona, but does not occur in California. Its succulent fruits have been recorded as an important food source for the indigenous tribes in Arizona (Castetter 1935). *O. echinocarpa*, alternatively, has a dry fruit that is not commonly eaten and this species is not mentioned as a food source of indigenous tribes by Castetter (1935). Therefore, it was concluded that an error was made in associating staghorn cholla with *Opuntia echinocarpa* in the list of culturally significant plants that is in the Appendix PLA. This error was corrected in Appendix A of this report.

Appendix PLA in the EIR lists 54 ethnoplants that presumably have the potential to occur in the Project Area. These species, along with data on flowering period, conservation status, habitat preferences, geographic distribution, and known locations in the vicinity of the Project Area, are presented in Appendix A.

4.3 Field Surveys

Transect-based protocol-level floristic surveys that conform to the guidelines of the California Department of Fish and Game² (CDFG, 2009), the USFWS (2000), and the CNPS (2001) were conducted in the fall (Oct 31-Nov 8, 2011) and in the spring (Mar 12-20, 2012). The fall survey was conducted in late October/early November 2011, because late summer rainfall in amounts sufficient to trigger germination and flowering of late-blooming species had been observed in the area (J. Andre, personal comm.). This late-season 2011 survey was targeted to areas within the Project Area that exhibited germination and flowering. These areas were decided upon after an initial field reconnaissance and in consultation with Dr. Andre. The main goal for the ethnobotany surveys was to generate a comprehensive list of all plant species that occur in the Project Area and to census, map, photograph, and record habitat data for the culturally significant species listed in Appendix A. Additional floristic surveys conducted for other purposes also contributed some data to this report: the Mature Plants survey completed August 18-25, 2011 (CH2M HILL 2012) and the limited vegetation surveys conducted during the wetlands survey (February 13-17, 2012).

The surveys used for determining the presence of culturally significant species were floristic and comprehensive in nature, meaning that all plants found were identified. Species that were not immediately recognizable to the surveyors were identified using the Jepson Manual (Baldwin et al., 2012) or the Jepson Online Interchange (2011), to the level necessary to determine whether they had ethnobotanical significance or special-status significance (i.e., CNPS list 1-4, listed by the CNDPA, considered sensitive by the BLM, listed by the ADA or by the Arizona Rare Plant Committee 2001).

The ability of surveyors to detect and identify plants efficiently and accurately in the field was enhanced by a field review of the common plant species in the Project Area prior to beginning the surveys. Surveyors also reviewed photographs of targeted plants on the Jepson Online Interchange (2011) prior to the floristic surveys. These materials supplemented the Jepson Manual (Baldwin et al., 2012), the primary resource used to identify culturally significant plants.

Trimble GeoXT and GeoXH global positioning systems (GPS) units with sub-meter accuracy were used to collect data on culturally significant plant species. The GPS units were equipped with data files for navigation and with

² California Department of Fish and Game has changed its name to the California Department of Fish and Wildlife, effective January 1, 2013

data dictionaries for data collection. Transect lines, spaced at 50 feet, were programmed into the GPS units and walked by surveyors. Surveyors walked meandering routes along each transect to ensure coverage of the entire Project Area, unless vegetation density or steep slopes precluded surveyors from accessing certain areas. To ensure that inaccessible areas were surveyed to the extent feasible, surveyors identified species by making observations from the margins of such areas or from nearby vantage points. In areas with dense vegetation, the lack of sunlight and/or high soil salinity invariably resulted in areas devoid of understory species.

A comprehensive list of all plant species observed was compiled for the Project Area during the surveys (Appendix B). Nomenclature for scientific names follows The Jepson Manual (Baldwin et al., 2012) or the Jepson Online Interchange (2011).

Results

5.1 Survey Summaries

Mature plant and vegetation mapping (Aug 18-26, 2011). A preliminary checklist of 84 species was compiled by Kim Steiner and CH2M HILL ecologist Morgan King while mapping mature plants and vegetation. Due to the seasonal timing of these surveys most of the plants recorded were shrubs or trees and many of these were leafless, or in a vegetative condition [e.g., buckhorn cholla, blue palo verde, sweet bush, white bursage, among others.]. The relatively few perennial herbs encountered were mainly in wetland areas (e.g., marsh fleabane or catchfly gentian (*Eustoma exaltatum*)). A few summer/fall annuals were already present and just starting to flower such as spiderling (*Boerhavia coccinea*), California kallstroemia (*Kallstroemia californica*), and chin-ch-weed (*Pectis papposa* var. *papposa*), but the few spring-flowering annuals such as chia (*Salvia columbariae*) and rigid spineflower (*Chorizanthe rigida*) were present only as dried skeletons.

Fall plant survey (Oct 31-Nov 8, 2011). The fall plant survey was conducted by Kim Steiner and Russell Huddleston. An additional 44 plant species, not detected during the August survey, were recorded during this survey. These included a variety of fall annuals including the grasses six-weeks three awn (*Aristida adsensionis*), needle gamma (*Bouteloua aristidoides*), and six weeks gamma (*Bouteloua barbata* ssp. *barbata*) as well as members of the four 'o clock family including sand verbena (*Abronia villosa*), trailing windmills (*Allionia incarnata* var. *incarnata*), and Wright's spiderling (*Boerhavia wrightii*). Some of these species can flower at almost any time, given adequate rainfall, but others flower only in fall and after late summer germination.

Wetland delineation (Feb 13-17, 2012). During a wetland delineation of the Project Area by Russell Huddleston and Kim Steiner, notes on spring-flowering annual species were begun. Many of the spring annuals were already in flower including *Cryptantha* spp., desert sunflower (*Geraea canescens*), combseeds (*Pectocarya* spp.), *Phacelia* spp., suncups (*Chylismia* and *Eremothera* spp.), whereas some were just beginning to flower e.g., *Chaenactis* subsp., white tackstem (*Calycoseris wrightii*), and gravel-ghost (*Atrichoseris platyphylla*). Other plant species e.g., pedicillate phacelia (*Phacelia pedicillata*), bristly calico (*Langloisia setosissima* ssp. *setosissima*), and mousetail suncup (*Chylismia arenaria* subsp. *arenaria*) had not yet started flowering. Many of the trees (e.g., *Parkinsonia*), shrubs, and herbaceous perennials were not yet in flower, but most of these had already been identified during previous surveys. Notable new additions to the species list included desert lily (*Hesperocallis undulata*) in segment G, and rock nettle in segment I. The existence and location of the hybrid between brittle and button brittlebush (*Encelia frutescens*) on the flood plain in Segment E was also confirmed. In total, 32 species were added to the checklist, 27 of which were annual species that had not previously been detected during the surveys. Many of these were in early stages of flowering, but others were approaching their flowering peak.

Spring survey (March 12-20, 2012). This survey was conducted by Kim Steiner and Russell Huddleston. No significant rainfall occurred in the project area between the wetland delineation and the beginning of the spring survey. Although occurring only about 3-4 weeks after the wetland survey, the Project Area looked considerably drier and some species detected during the early survey were no longer flowering e.g., Bigelow's monkey flower (*Mimulus bigelovii*) and wedge-leaved draba (*Draba cuneifolia*) or were less abundant. Other species that had not been in flower earlier (e.g., mousetail suncup) were in full flower during this survey. This survey added an additional 33 species to the checklist for the Project Area for a total count of 193 species (Appendix B).

Of the 54 plant species listed in Appendix PLA (Colorado River Culture Ethnobotany), only about one fourth (13 of 53) were found to occur in the Project Area (Table 1; Appendices A and D). One reason for this may be that the original source of the list is a book about ethnobotanical plants in the American Southwest, with an emphasis on plants from Arizona, New Mexico, and northern Mexico (Castetter 1935). Many of the plants discussed by Castetter (1935) are from upland areas at higher elevations in northern or eastern Arizona and do not occur in California or lowland western Arizona. The Appendix PLA list also includes a variety of cultivated food plants including beans, crookneck squash, field pumpkin, tepary beans, Sauwi, and Indian woodoats that would not be

expected in uncultivated areas of vegetation such as those in the Project Area. Among the 13 species found on the Appendix PLA list are a variety of trees, shrubs and herbs.

Trees: Five of the nine tree species listed in the PLA were found in the Project Area (Table 1). These included two palo verde species (Hillside and Blue, two mesquites (western honey and screwbean) and Goodding's willow (*Salix gooddingii*). Of the species that were not found in the Project Area, honey mesquite (*Prosopis glandulosa* var. *glandulosa*) doesn't occur in Arizona or California and pinyon pine (*Pinus monophylla*) occurs at higher elevations than those present in the Project Area. The other two species, ironwood (*Olneya tessota*) and velvet mesquite (*Prosopis velutina*), could conceivably occur in the Project Area, but have not been found there. All species that had potential to occur in the Project Area are easily recognizable and would not have been missed during the surveys.

Shrubs: Three of the nineteen culturally significant shrubs (big saltbush, cattle saltbush and desert tobacco (*Nicotiana obtusifolia*) listed in the Appendix PLA occur in the Project Area. Of the remaining listed shrubs, 10 have distributional ranges far removed from the Project Area, three (Parry's Agave [*Agave parryi*], scrub live oak [*Quercus turbinella*] and candy barrel cactus [*Ferocactus wislizeni*]) are associated with habitats that do not occur in the Project Area and three, Mojave yucca (*Yucca schidigera*), mule's fat (*Baccharis salicifolia*), and iodine bush (*Allenrolfea occidentalis*) are absent despite the presence of suitable habitats. These latter species, if present, would have been found, because they are conspicuous and readily identifiable.

Herbs: Five of the 26 herbs listed in the Appendix PLA were found in the Project Area. Eighteen species occur well outside of the Project Area or occur in habitats that do not occur in the Project Area. The remaining three species, fragrant flatsedge (*Cyperus odoratus*), Jimson weed (*Datura wrightii*), and common sunflower (*Helianthus annus*) are annuals that could occur in the Project Area, but have not been found. The latter two species are common and conspicuous roadside weeds that normally come up even under dry conditions. Flatsedge, however, occurs in wet habitats. It flowers in late summer and could have potentially been missed during the only preliminary reconnaissance in August of 2011. If present, one would expect to find it in the wetlands of Segments A, B, or F.

TABLE 1
Plants from the Ethnobotany List in the Appendix PLA Found in the Project Area

Common Name	Scientific Name	Flowering Period
Trees		
Blue palo verde	<i>Parkinsonia florida</i>	Apr–May
Hillside (Yellow) palo verde	<i>Parkinsonia microphylla</i>	Apr–May
Goodding's willow	<i>Salix gooddingii</i>	Mar–Apr
Screwbean mesquite	<i>Prosopis pubescens</i>	Apr–Sep
Western honey mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	Apr–Aug
Shrubs		
Big Saltbush	<i>Atriplex lentiformis</i>	Jul–Oct
Cattle saltbush	<i>Atriplex polycarpa</i>	Jul–Oct
Desert tobacco	<i>Nicotiana obtusifolia</i> var. <i>obtusifolia</i>	Mar–Jun
Herbs		
Broadleaf cattail	<i>Typha latifolia</i>	Jun–Jul
Golden suncup	<i>Chylismia brevipes</i> subsp. <i>brevipes</i>	Mar–May
Chia	<i>Salvia columbariae</i>	Mar–Jun
Common Reed	<i>Phragmites australis</i>	Jul–Nov
Desert lily	<i>Hesperocallis undulata</i>	Mar–May

5.2 Occurrence of Culturally Significant Plants in the Project Area

The distributions of all ethnoplants in the Project Area are mapped in Figures 4 and 5 based either on point, polygon, or survey segment data. Tree species distributions, as well as distributions of the shrubs desert tobacco and desert lily, are based on GPS point data. Distributions of the two saltbush shrubs, as well as cattail and common reed, are based on polygon data, whereas the distributions of annual species including golden suncup and chia are based on segment data from the Vascular Plant Checklist (Appendix B). Ethnoplants varied in their distribution across the Survey Segments in the Project Area. The average ethnoplant occurred in four different Survey Segments. Species such as blue palo verde, western honey mesquite, cattle saltbush, and common reed were widespread and found in up to 72% (i.e., 8 of 11) of the Survey Segments. At the other extreme were species occurring in a single Survey Segment. Desert lily, for example, was observed as a single plant in Survey Segment G. Location data for culturally significant plants are presented in Appendix F.

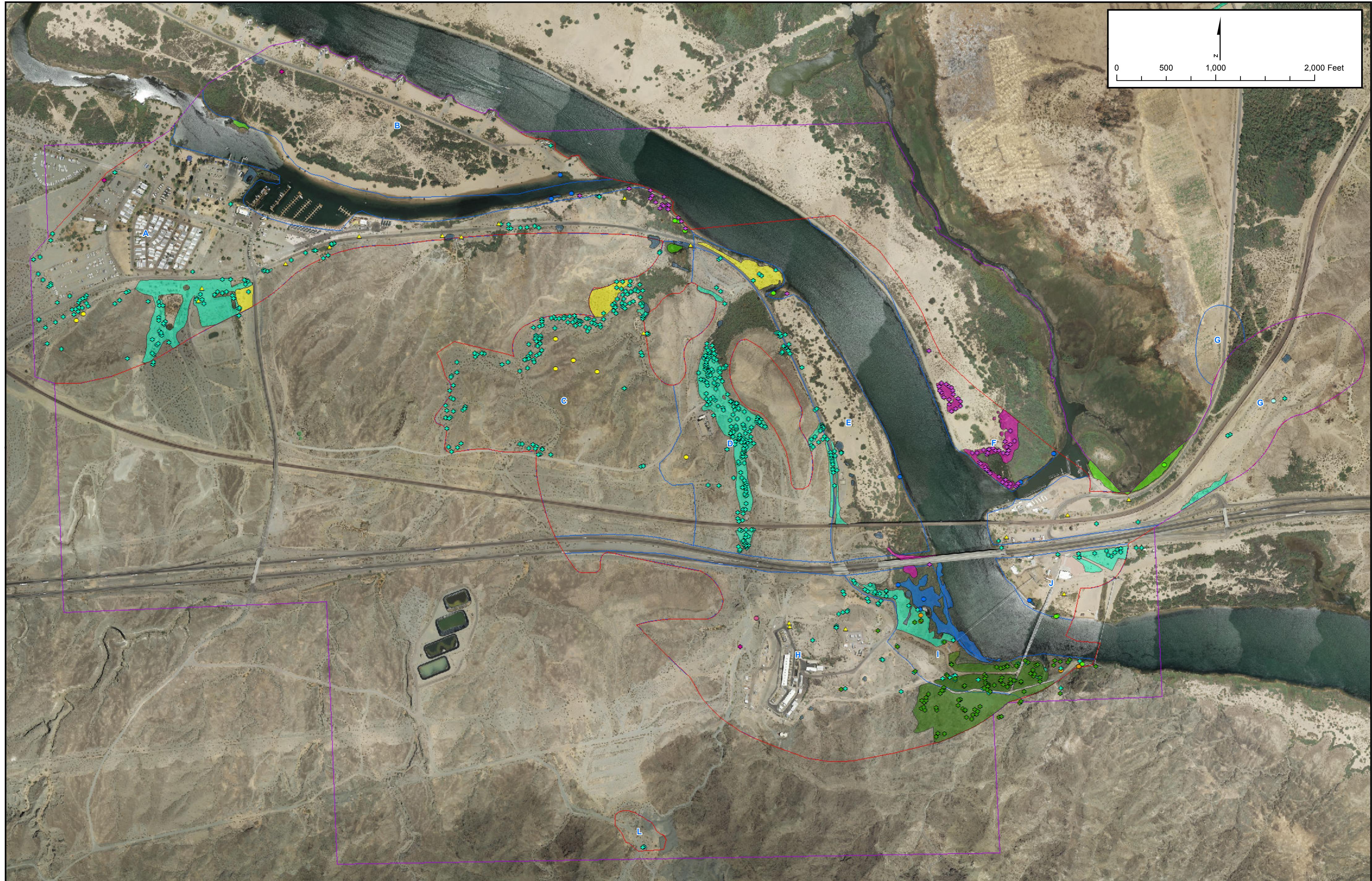
5.3 Probability of Missed Occurrences due to Below-average Rainfall

The 2011-2012 rainfall year (July through March), measured in the Project Area at IM-3 near Bat Cave Wash, was below average (2.75" versus 4.5") and this lack of precipitation affected the germination and growth of annuals and herbaceous perennials in the Project Area. However, there are only three annuals on the PLA list that had a reasonable potential to occur in the Project Area that were not identified during the 2011 and 2012 surveys. One of these annuals, fragrant flatsedge, is a wetland plant and would be relatively unaffected by rainfall, because of the buffering effects of the Colorado River and the other two annuals (common sunflower and Jimson weed) are weedy and probably less susceptible to below average rainfall conditions. Furthermore, their dried skeletons can persist in the environment for over a year and no such skeletons were observed during our August 2011 and subsequent surveys, despite identifying skeletons from other ethnoplants (e.g., chia and golden suncups) that had persisted since the spring of 2011. Therefore, it is unlikely that any culturally significant annual species were missed as a result of below-average rainfall. However, the dry conditions would have had an effect on the abundance of annual species in the various Survey Segments.

Additional floristic surveys will be completed in the spring of 2013 to focus on areas where culturally significant herbaceous plant species are most likely to be present within the Project Area. The purpose of these surveys is to obtain a better estimate on the size of and distribution of culturally significant annuals and herbaceous perennials plant populations during a more favorable rainfall year. The results of the 2013 spring surveys will be provided in an addendum to this report.

5.4 Culturally Significant versus Special-status Plants

Plants on the list in Appendix PLA of the EIR are protected first and foremost by virtue of their cultural significance to the Native American tribes, whether or not they have protection under any federal or state legislation. Most (9 of 13) of the ethnoplant species occurring in the Project Area have no special status under California or Arizona statutes and are not considered to be rare, endangered or threatened under federal laws. However, the remaining four species: blue palo verde; hillside palo verde; western honey mesquite; and screwbean mesquite are protected under the California Desert Native Plants Act (CDNPA). The intent of this Act is to protect California desert native plants from unlawful harvesting on both publicly and privately owned lands (CDNPA 1981). These four species are also protected in Arizona by the Arizona Department of Agriculture through category C of the Salvage Assessed Protected Native Plants (ADA, 2012).



LEGEND

■ Area of Potential Effects (APE)

■ Project Area

■ Survey Segment

Shrubs

Common Name	Scientific Name	Survey Segment
Cattle Saltbush	<i>Atriplex polycarpa</i>	A, B, C, D, G, H, I, J
Big Saltbush	<i>Atriplex lentiformis</i>	A, G, I, J

Herbs

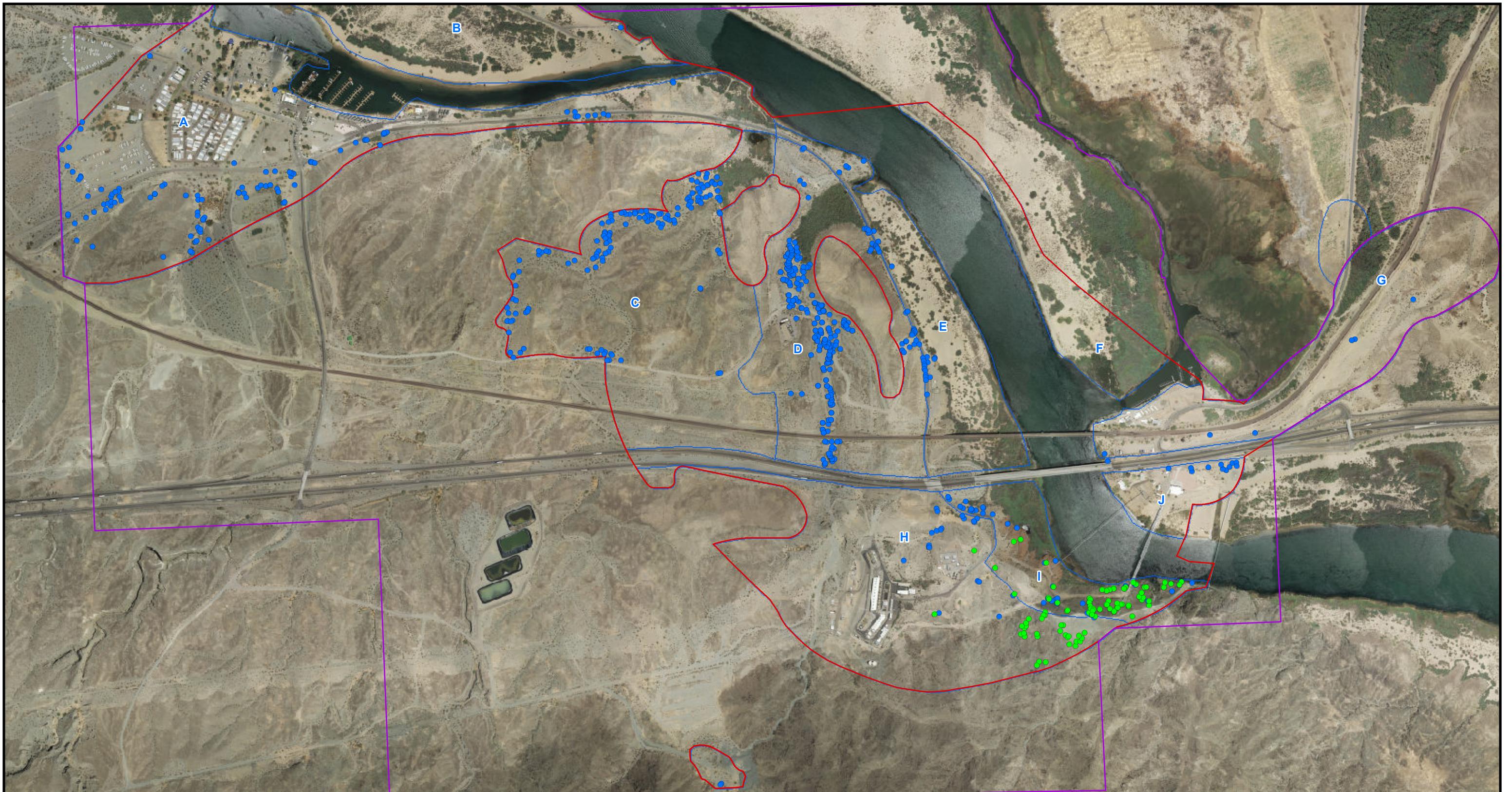
Common Name	Scientific Name	Survey Segment
Broad-leaved Cattail	<i>Typha latifolia</i>	A, C, E, G, I, J
Common Reed	<i>Phragmites australis</i>	A, B, E, F, G, I, J
Desert Tobacco	<i>Nicotiana obtusifolia</i>	H, I, L
Desert Lily	<i>Hesperocallis undulata</i>	G
Chia	<i>Salvia columbariae</i>	D, H
Golden suncup	<i>Chylismia brevipes</i>	A, C

Trees

Common Name	Scientific Name	Survey Segment
Blue Palo Verde	<i>Parkinsonia florida</i>	A, C, E, G, I, J
Goodding's Willow	<i>Salix</i>	A, B, E, F, G, I, J
Hillside Palo Verde	<i>Parkinsonia microphylla</i>	H, I, L
Screw Bean Mesquite	<i>Prosopis pubescens</i>	A, E, F

FIGURE 4
MAP OF PLANTS WITH CULTURAL SIGNIFICANCE IN THE PROJECT AREA

ETHNOBOTANY SURVEY
PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT,
NEEDLES, CALIFORNIA


LEGEND

- Area of Potential Effects (APE)
- Project Area
- Survey Segments

PLANT SPECIES

- Common Name:
● Blue palo verde
● Hillside palo verde

- Scientific Name:
● *Parkinsonia florida*
● *Parkinsonia microphylla*

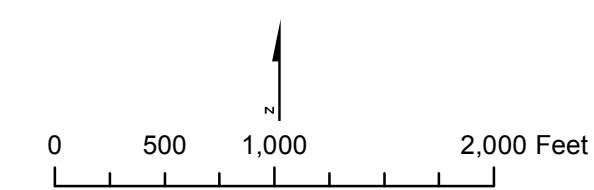


FIGURE 5
HILLSIDE PALO VERDE AND
BLUE PALO VERDE
IN THE PROJECT AREA

ETHNOBOTANY SURVEY
PG&E TOPOCK GROUNDWATER REMEDIATION PROJECT,
NEEDLES, CALIFORNIA

SECTION 6

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Appendix A

Target List of Culturally Significant Plant Species

from Appendix PLA of the EIR with the Potential to

Occur in the Project Area

APPENDIX A

Target List of Culturally Significant Plant Species from Appendix PLA of the EIR with the Potential to Occur in the Project AreaSpecies in **bold** are present in one or more of the survey segments of the Project Area

See below Table 1 for Sources, Conservation status abbreviations, and Occurrence potential definitions.

Common Name	Scientific Name	Status ¹ BLM/CRPR/CDNPA/ADA	Flowering Period	Habitat	Potential to Occur ²
TREES					
Blue palo verde	<i>Parkinsonia florida</i>	--/--/CDNPA/B	Apr–May	Creosote bush scrub; washes and floodplains	Present. This species is the most abundant native tree in the Project Area.
Desert ironwood	<i>Olneya tesota</i>	/--/--/CDNPA/--	Apr–May	Creosote bush scrub; desert washes	Absent. Suitable habitat for this tree occurs in the Project Area, but ironwood is not known to occur further north than the Whipple Mountains near Lake Havasu and it was not detected during the surveys.
Hillside (Yellow) palo verde	<i>Parkinsonia microphylla</i>	--/4.3/CDNPA/--	Apr–May	Creosote bush scrub; rocky or gravelly areas	Present. This woody shrub or small tree is locally common in the Project Area in Segments I and H.
Honey mesquite	<i>Prosopis glandulosa</i> var. <i>glandulosa</i>	NA	NA	NA	Absent. This variety of <i>Prosopis glandulosa</i> does not occur in California or Arizona.
Goodding's willow	<i>Salix gooddingii</i>	--/-/-/--	Mar–Apr	Streamside's, marshes, seepage areas, washes, meadows	Present. Uncommon large tree in Segment B of the Project Area.
Screwbean mesquite	<i>Prosopis pubescens</i>	--/--/CDNPA/C	Apr–Sep	Creosote bush scrub; creek, river bottoms, sandy or gravelly washes, ravines	Present. This medium to large tree is common under the highway and BN&SF bridges that cross the Colorado River, and on the Arizona side of the river opposite the Topock Marina.
Single leaf Pinyon (pinyon pine)	<i>Pinus monophylla</i>	--/-/-/--	Spring	Pinyon/juniper woodland	Absent. No suitable habitat in Project Area.
Velvet mesquite	<i>Prosopis velutina</i>	--/--/CDNPA/C-	Apr–Jun	Mojave desert scrub; sandy, rocky soils in canyons, washes; only naturalized in California, not native	Absent. A single occurrence of this tree is known from the Topock Marsh; however, it was not detected during multiple surveys of the Project Area.
Western honey mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	--/--/CDNPA/B	Apr–Aug	Creosote bush scrub and alkali sink scrub; grasslands, alkali flats, washes, sandy alluvial flats, mesas	Present. This medium to large tree is common in the Project Area especially on the low sandy terraces along the Colorado River.

APPENDIX A

Target List of Culturally Significant Plant Species from Appendix PLA of the EIR with the Potential to Occur in the Project Area

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Common Name	Scientific Name	Status ¹ BLM/CRPR/CDNPA/ADA	Flowering Period	Habitat	Potential to Occur ²
SHRUBS					
American agave	<i>Agave americana</i>	--/--/--/--	Jun–Aug	Original habitat unknown; grows wild in Mexico on cultivated lands and pine woodlands	Absent. Leaf succulent shrub, long cultivated by indigenous tribes, commonly occurs on agricultural lands. Not native to California or Arizona.
Arizona desert-thorn	<i>Lycium exsertum</i>	--/--/--/--	Jan–Feb	In washes and on mountain slopes	Absent. Does not occur in California or in western Arizona at low elevations
Big saltbush	<i>Atriplex lentiformis</i>	-/--/--/--	Jul–Oct	Alkaline or saline washes, dry lakes, scrub	Present. Occurs in Survey Segments A, G, I, and J
Cactus apple	<i>Opuntia engelmannii</i>	--/--/--/B	Apr–Jun	Desert scrub, dry oak woodland	Absent. Does not occur in California or western Arizona
Candy barrelcactus	<i>Ferocactus wislizeni</i>	--/--/CDNPA/B	May–Jun	Grassland and hills	Absent. No suitable habitat in Project Area; occurs at elevations higher than Project Area.
Cattle saltbush	<i>Atriplex polycarpa</i>	--/--/--/--	Jul–Oct	Creosote bush scrub, shadscale scrub, sagebrush scrub, and alkali sink scrub; dry lakes	Present. Locally common; occurs in Segments A, B, C, D, G, H, I, J of the Project Area.
Desert agave	<i>Agave deserti</i>	--/--/CDNPA/B	May–Jul	Rocky slopes, washes in desert scrub	Absent. Nearest occurrence in Whipple Mts. approximately 30 miles SW of Project Area, near Copper Basin.
Desert tobacco	<i>Nicotiana obtusifolia</i> var. <i>obtusifolia</i>	--/--/--/--	Mar–Jun	Creosote bush scrub and Joshua tree woodland; gravelly or rocky washes, slopes	Present. Known to occur in Segments H, I, and L of the Project Area.
Fremont's desertthorn	<i>Lycium fremontii</i>	--/--/--/--	Mar–Apr	Alkaline soils, flats	Absent. Nearest occurrences in Whipple Mountains near Cupcake Butte and Parker, approximately 28 miles SW of Project Area.
Jojoba	<i>Simmondsia chinensis</i>	--/--/--/--	Mar–May	Creosote bush scrub, Joshua tree woodland, chaparral	Absent. Suitable habitat; however, no known occurrences within 75 miles of the Project Area.

APPENDIX A

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Indian rushpea	<i>Hoffmannseggia glauca</i>	--/--/--/--	Apr–Jun	Dry, alkaline flats in deserts and disturbed areas	Absent. Nearest occurrences approximately 52 miles NW of Project Area.
Iodine bush	<i>Allenrolfea occidentalis</i>	--/--/--/--	Jun–Aug	Alkali sink scrub (saline soils), flats, bluffs.	Absent. Suitable habitat; however, not known from Project Area, nearest occurrence is near Earp, 40 miles south of Topock.
Lotebush	<i>Ziziphus obtusifolia</i> var. <i>canescens</i>	--/--/--/--	Apr–Jun	Desert scrub	Absent. Occurrences known from Chemehuevi Wash in the Whipple Mountains 14 miles SW of Project Area.
Mojave yucca	<i>Yucca schidigera</i>	--/--/CDNPA/B	Apr–May	Chaparral, creosote bush scrub	Absent. Nearest known occurrence is 10 miles south of Needles.
Mule's fat	<i>Baccharis salicifolia</i>	--/--/--/--	All year	Coastal sage scrub, foothill woodland, valley grassland, moist streamsides, canyon bottoms, irrigation ditches	Absent. Not found during the surveys but known to occur in the Topock Marsh.
Parry's agave	<i>Agave parryi</i>	--/--/CDNPA/B	Jun–Aug	Rocky slopes, grasslands, oak woodland, pine forests, and chaparral	Absent. No suitable habitat; not known from California or Mohave County, Arizona.
Scrub live oak	<i>Quercus turbinella</i>	--/--/--/--	Apr–Jun	Pinyon/juniper woodland	Absent. No suitable habitat; known only from higher elevations.
Spiny chloracantha	<i>Chloracantha spinosa</i>	--/--/--/--	Jun–Dec	Creosote bush scrub and alkali sink scrub; seeps, moist streamsides, ditches, sometimes saline or drier areas	Absent. Habitat suitable, but not detected in surveys of the Project Area.
Staghorn cholla	<i>Cylindropuntia versicolor</i> ³	--/--/--/B	May–Jun	Creosote bush scrub; gravelly or rocky places	Absent. This succulent shrub does not occur in California or in western Mojave County, Arizona.
HERBACEOUS PLANTS					
Awned cupgrass	<i>Eriochloa aristata</i>	--/--/--/--	Jun–Nov	Wetlands; seasonal streams, riverbanks	Unlikely. Annual grass, suitable habitat; however, no known occurrence within 100 miles of the Project Area.

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Common Name	Scientific Name	Status ¹ BLM/CRPR/CDNPA/ADA	Flowering Period	Habitat	Potential to Occur ²
Beans	<i>Phaseolus vulgaris</i>	--/--/--/--	Summer	Cultivated lands	Absent. No suitable habitat, known only from cultivated lands.
Bearded cupgrass	<i>Eriochloa aristata</i>	--/--/--/--	Jun–Nov	Seasonal streams riverbanks	Unlikely. Suitable habitat, no occurrence within 100 miles of Project Area.
Blunt Tastymustard	<i>Descurainia obtusa</i>	--/--/--/--	May–Jun	Gravelly flats, open woods, lake margins	Unlikely. No suitable habitat and below normal elevation range.
Broadleaf arrowhead	<i>Sagittaria latifolia</i>	--/--/--/--	Jul–Aug	Freshwater wetlands ponds, slow streams, ditches	Absent. Perennial herb; however, no occurrences known for western Riverside or San Bernardino counties.
Broadleaf cattail	<i>Typha latifolia</i>	--/--/--/--	Jun–Jul	Freshwater wetlands and marshes	Present. Perennial herb, known to occur in Segments A, C, E, and I of the Project Area.
Careless weed	<i>Amaranthus palmeri</i>	--/--/--/--	Aug–Nov	Creosote bush scrub, roadside ditches, fields, arroyos	Unlikely. Short-lived perennial; no known occurrences within 90 miles of the Project Area.
Chia	<i>Salvia columbariae</i>	--/--/--/--	Mar–Jun	Creosote bush scrub chaparral, coastal sage scrub; dry, disturbed sites	Present. Annual herb that is present in Segments A and D (Bat Cave Wash) of the Project Area.
Common Reed	<i>Phragmites australis</i>	--/--/--/--	Jul–Nov	Wetlands along rivers	Present. Along Colorado River in Segments A, E, I, F.
Common sunflower	<i>Helianthus annuus</i>	--/--/--/--	Jul–Oct	Disturbed areas in shrublands and many habitats	Absent. Annual herb, known occurrences from Parker Dam Road 18 miles south of the Project Area.
Crookneck squash	<i>Cucurbita moschata</i>	--/--/--/--	Jun–Aug	Cultivated lands	Absent. No suitable habitat, known only from cultivated lands.
Datura (or Jimson) weed	<i>Datura wrightii</i>	--/--/--/--	Apr–Oct	Creosote bush scrub, coastal sage scrub, valley grassland, Joshua tree woodland, pinyon/juniper woodland; sandy or gravelly open areas	Absent. Annual weed, suitable habitat present, nearest known occurrence 13.3 miles northwest of Needles.

APPENDIX A

Target List of Culturally Significant Plant Species from Appendix PLA of the EIR with the Potential to Occur in the Project AreaSpecies in **bold** are present in one or more of the survey segments of the Project Area

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Desert lily	<i>Hesperocallis undulata</i>	--/--/--B	Mar–May	Desert shrublands; sandy flats and washes	Present. Bulbous perennial, known to occur in sandy areas of Section G.
Fendler's groundcherry	<i>Physalis hederifolia</i> var. <i>fendleri</i>	--/--/--	May–Jul	Gravelly to rocky slopes	Absent. Not known to occur below 2900 feet elevation.
Field pumpkin	<i>Cucurbita pepo</i>	--/--/--	June–Aug	Cultivated lands	Absent. No suitable habitat, known only from cultivated lands.
Fragrant flatsedge	<i>Cyperus odoratus</i>	--/--/--	Jul–Oct	Wetlands; disturbed soils	Possible. Annual sedge, occurrence known from Needles.
Fremont's Goosefoot	<i>Chenopodium fremontii</i>	--/--/--	Jun–Oct	Shaded places, shrubland, coniferous forests	Absent. No suitable habitat; Project Area considerably below elevation range of the species.
Golden suncup	<i>Chylismia brevipes</i> subsp. <i>brevipes</i>	--/--/--	Mar–May	Sandy slopes, washes, alluvial fans	Present. Occurs in Segments A and D.
Indian woodoats	<i>Chasmanthium latifolium</i>	--/--/--	Jun–Aug	Woodlands; moist, fertile soils along creek and river banks	Unlikely. Perennial grass, no known occurrences in California or Mojave County, Arizona.
Mexican lovegrass	<i>Eragrostis mexicana</i> ssp. <i>mexicana</i>	--/--/--	Jul–Oct	Disturbed areas; generally open sites	Unlikely. Annual grass, suitable habitat present; however, no known occurrences near Topock.
Mexican panic grass	<i>Panicum hirticaule</i>	--/--/--	Jul–Oct	Creosote bush scrub; sandy soils, open sites	Unlikely. Annual grass, suitable habitat present; however, no known occurrences near Topock.
New Mexico Giant Hyssop	<i>Agastache pallidiflora</i> ssp. <i>neomexicana</i> var. <i>neomexicana</i>	--/--/--	Jul–Oct	Moist canyons at middle elevations	Absent. No suitable habitat; not known from California or Mohave County, Arizona.

APPENDIX A

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Common Name	Scientific Name	Status ¹ BLM/CRPR/CDNPA/ADA	Flowering Period	Habitat	Potential to Occur ²
Valley redstem	<i>Ammannia coccinea</i>	--/--/--/--	Jun–Aug	Many plant communities; wet places, drying ponds, lake and creek margins	Unlikely. Annual weed; however, no occurrences known within 100 miles of the Project Area.
Sandfood	<i>Pholisma sonorae</i>	S/1B.2/--/A	Apr–May	Dunes, sandy areas	Absent. Only known from Imperial County, California
Sauwi	<i>Panicum sonorum</i> (syn. <i>P. hirticaule</i> ssp. <i>hirticaule</i>)	--/--/--/--	Jun–Aug	Domesticated, river flood plains	Absent. Annual grass, cultivar of <i>P. hirticaule</i> ; no known occurrences near the Project Area.
Tepary Bean	<i>Phaseolus acutifolius</i> var. <i>latifolius</i>	--/--/--/--	Jun–Aug	Cultivated lands	Absent. No suitable habitat, known only from cultivated lands.

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¹ Conservation status abbreviations:

BLM designations

S - The California State Director has also conferred sensitive status on California State Endangered, Threatened, and Rare species, or species on List 1B (plants rare and endangered in California and elsewhere) of the CNPS' Inventory of Rare and Endangered Plants of California

California Rare Plant Ranks (formerly CNPS Lists)

1B.2 Plants rare, threatened or endangered in California and elsewhere and are considered to be fairly endangered in California.

4.3 Plants of limited distribution – a watch list; Not very endangered in California.

Department of Food and Agriculture designations:

CDNPA Plants that are protected by the California Desert Native Plants Act

Arizona Department of Agriculture designations:

B. Salvage Restricted Protected Native Plants

C. Salvage Assessed Protected Native Plants

² Potential to occur definitions:

Present: Species observed in one or more of the survey segments of the Project Area.

Possible: Species not observed on the site, however conditions suitable for occurrence.

Unlikely: Species not observed on the site, conditions marginal for occurrence.

Absent: Species or suitable habitat not observed on the site during protocol-level surveys

Sources:

California Native Plant Society 2011; California Natural Diversity Database 2011; Consortium of California Herbaria 2011; Jepson Online Interchange 2011; Calflora 2012.

Appendix B

Vascular Plant Species Observed in the Project Area

APPENDIX B
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Scientific name	Common name	Survey Segments
GYMNOSPERMS		
EPHEDRACEAE	ephedra family	
<i>Ephedra nevadensis</i>	joint fir	H, I
ANGIOSPERMS-DICOTS		
AIZOACEAE	ice plant family	
<i>Trianthema portulacastrum</i>	horse-purslane	G
AMARANTHACEAE	amaranth family	
<i>Amaranthus fimbriatus</i>	fringed amaranth	A, C, I
<i>Tidestromia oblongifolia</i>	honeysweet	A, B, C, D, E, F, G, H, I, J, K
APIACEAE	carrot family	
<i>Hydrocotyle verticillata</i>	marsh pennywort	A, B, E, F
APOCYNACEAE	milkweed family	
<i>Asclepias albicans</i>	white-stemmed milkweed	C, H, L
<i>Asclepias subulata</i>	rush milkweed	C, D, H, L
<i>Funastrum hirtellum</i>	climbing-milkweed	A, C, D, E, G, H, I
<i>Nerium oleander</i> *	oleander	A, B, H
ASTERACEAE	sunflower family	
<i>Adenophyllum porophylloides</i>	San Felipe dyssodia	H, I
<i>Ambrosia dumosa</i>	white bursage	A, C, D, E, F, G, H, I, J, L
<i>Ambrosia salsola</i>	cheesebush	A, B, C, D, E, F, G, H, I, J, L
<i>Atrichoseris platyphylla</i>	gravel-ghost	A, C, D, F, G, H, I, L
<i>Baccharis sarothroides</i>	broom bacharis	A, B, E, F, I
<i>Bebbia juncea</i> var. <i>aspera</i>	sweetbush	A, C, D, E, G, H, I, J, L
<i>Calycoseris wrightii</i>	white tackstem	A, C, D, E, G, H, I, L
<i>Chaenactis carphoclinia</i>	pebble pincushion	A, C, D, E, G, H, I, J, L
<i>Chaenactis stevioides</i>	stevia pincushion	G, J
<i>Encelia farinosa</i>	brittlebush	A, B, C, D, E, F, G, H, J, L
<i>Encelia farinosa</i> x <i>frutescens</i>	brittlebush hybrid	E
<i>Encelia frutescens</i>	button brittlebush	E
<i>Eriophyllum lanosum</i>	white woolly eriophyllum	C, L
<i>Geraea canescens</i>	desert sunflower	A, C, D, E, G, H, I, J
<i>Lactuca serriola</i>	prickly lettuce	A
<i>Malacothrix glabrata</i>	smooth desert dandelion	A, D, G, H, L

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<i>Monoptilon belliodoides</i>	desert star	A, C, H, L
<i>Palafoxia arida</i>	Spanish needle	A, B, C, D, E, F, G, H, I, J
<i>Pectis papposa</i> var. <i>papposa</i>	chinch-weed	A, C, D, E, G, H
<i>Perityle emoryi</i>	Emory rock daisy	A, C, D, E, H, I, L
<i>Peucephyllum schottii</i>	pygmy-cedar	D, H, I
<i>Pluchea odorata</i>	marsh fleabane	A, B, F, G, I
<i>Pluchea sericea</i>	arrow weed	B, C, D, E, F, G, H, I, J
<i>Porophyllum gracile</i>	slender poreleaf	C, D, H, I
<i>Pseudognaphalium luteoalbum</i>	cudweed	I
<i>Pulicaria paludosa</i>	Spanish false-fleabane	B
<i>Rafinesquia neomexicana</i>	New Mexico desert chicory	G
<i>Senecio mohavensis</i>	Mojave groundsel	D, H, I
<i>Sonchus asper</i>	prickly sow-thistle	A, I
<i>Stephanomeria pauciflora</i>	skeletonweed	A, B, C, E, F, G, H, I, J
<i>Stylocline micropoides</i>	woolly-head nest straw	C, D, H
<i>Trichoptilium incisum</i>	yellowdome	D
<i>Xanthisma spinulosum</i> var. <i>gooddngii</i>	goldenweed	H, I
<i>Xanthium strumarium</i>	common cocklebur	B
BORAGINACEAE		
	borage family	
<i>Amsinckia tessellata</i>	devil's lettuce	A, C, D, E, H, J, L
<i>Cryptantha angustifolia</i>	narrow-leaved cryptantha	A, C, E, F, G, H, J, L
<i>Cryptantha barbigena</i> var. <i>barbigena</i>	bearded cryptantha	C, D, E, F, G, H, I, J, L
<i>Cryptantha inaequata</i>	Panamint cryptantha	D
<i>Cryptantha maritima</i>	Guadalupe cryptantha	A, C, D, E, F, G, H, I, J, L
<i>Cryptantha micrantha</i>	red-root cryptantha	A, B, E, F
<i>Cryptantha nevadensis</i> var. <i>rigida</i>	rigid cryptantha	D
<i>Cryptantha pterocarya</i>	winged-nut cryptantha	A, C, D, E, H, I, L
<i>Heliotropium curassavicum</i>	alkali heliotrope	A, B, I
<i>Pectocarya heterocarpa</i>	chuckwalla combseed	B, F
<i>Pectocarya platycarpa</i>	broadfruited combseed	C, D, E, F, G, H, I, L
<i>Pectocarya recurvata</i>	curvednut combseed	A, C, D, G, H, I
<i>Phacelia crenulata</i> ssp. <i>ambigua</i>	notch-leaved phacelia	A, C, D, E, F, G, H, I, J, L
<i>Phacelia distans</i>	distant phacelia	D

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<i>Phacelia pedicillata</i>	pedicellate phacelia	D, L
<i>Tiquilia plicata</i>	fanleaf crinklemat	A, B, E, F, G, H, J
BRASSICACEAE		
<i>Brassica tournefortii</i>	Saharan mustard	A, B, C, D, E, F, G, H, I, J, L
<i>Descurainia pinnata</i>	pinnate tansy mustard	A
<i>Dithyrea californica</i>	California spectacle pod	D
<i>Draba cuneifolia</i>	wedge-leaved draba	D
<i>Guillenia lasiophylla</i>	California mustard	D
<i>Lepidium lasiocarpum</i>	pepperweed	C, D, H, I, L
<i>Sisymbrium orientale</i>	Oriental hedge-mustard	A, B, E, F, G
CACTACEAE		
<i>Cylindropuntia acanthocarpa</i>	buckhorn cholla	C, D, H, I
<i>Cylindropuntia bigelovii</i>	teddy-bear cholla	H
<i>Cylindropuntia echinocarpa</i>	silver cholla	A, C, D, E, G, H
<i>Ferocactus cylindraceus</i> var. <i>cylindraceus</i>	California barrel cactus	C, D, H, I
<i>Opuntia basilaris</i> var. <i>basilaris</i>	beavertail	A, C, D, E, G, H, I, L
<i>Mammillaria tetrancistra</i>	corkseed mammillaria	A, E, C, D, H
CARYOPHYLLACEAE		
<i>Achyronychia cooperi</i>	onyx flower	B, E, F
CHENOPodiaceae		
<i>Atriplex elegans</i> var. <i>elegans</i>	wheelscale	A
<i>Atriplex fruticulosa</i>	ball saltbush	A
<i>Atriplex hymenolytra</i>	desert holly	A
<i>Atriplex lentiformis</i>	big saltbush	A, G, I, J
<i>Atriplex polycarpa</i>	cattle saltbush	A, B, C, D, G, H, I, J
<i>Chenopodium album</i>	white goosefoot	A, E, L
<i>Dysphania ambrosioides</i>	Mexican-tea goosefoot	A, G, L
<i>Salsola tragus</i>	Russian thistle	A, B, C, E, F, G, J
<i>Suaeda moquinii</i>	bush seepweed	A, G
CUCURBITACEAE		
<i>Cucurbita palmata</i>	coyote gourd	G

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EUPHORBIACEAE	spurge family	
<i>Chamaesyce micromera</i>	desert spurge	A, B, C, D, E, H, I
<i>Chamaesyce polycarpa</i>	small-seeded spurge	A, B, C, D, E, F, G, H, I, J, L
<i>Chamaesyce setiloba</i>	Yuma spurge	A, C, D, H, I, L
<i>Ditaxis neomexicana</i>	common ditaxis	A, H, L
<i>Stillingia paucidentata</i>	Mojave toothleaf	I
FABACEAE	legume family	
FABACEAE	legume family	
<i>Acmsipon maritimus</i> var. <i>maritimus</i>	coastal bird's foot trefoil	D
<i>Acmsipon strigosus</i>	strigose bird's foot trefoil	D, H, I, L
<i>Dalea mollis</i>	hairy indigo-pea	A, C, D, E, G, H, I, L
<i>Dalea mollissima</i>	downy dalea	D, F, G, I
<i>Lupinus arizonicus</i>	Arizona lupine	A, C, D, E, G, H, J, L
<i>Marina parryi</i>	Parry's marina	A
<i>Parkinsonia aculeata</i>	Mexican palo verde	A
<i>Parkinsonia florida</i>	blue palo verde	A, C, D, E, G, H, I, J, L
<i>Parkinsonia microphylla</i>	hillside palo verde	H, I
<i>Prosopis glandulosa</i> var. <i>torreyana</i>	honey mesquite	A, C, E, G, H, I, J
<i>Prosopis pubescens</i>	screwbean mesquite	A, E, F
<i>Psorothamnus spinosus</i>	smoke tree	A, B, C, D, J
<i>Senegalia greggii</i>	catclaw acacia	A, B, C, D, G, H, I
FOUQUIERIACEAE	ocotillo family	
<i>Fouquieria splendens</i> ssp. <i>splendens</i>	ocotillo	C, D, H, I
GENTIANACEAE	gentian family	
<i>Eustoma exaltatum</i>	catchfly gentian	B, F
GERANIACEAE	geranium family	
<i>Erodium cicutarium</i>	red-stemmed filaree	A, C, D, E, F, G, H, L
<i>Erodium texanum</i>	Texas filaree	I
KRAMERIACEAE	rhatany family	
<i>Krameria bicolor</i>	white rhatany	A, C, D, G, H, I, L
<i>Krameria erecta</i>	Pima rhatany	H, I
LAMIACEAE	mint family	
<i>Hyptis emoryi</i>	desert lavender	A, C, D, H, I, L

APPENDIX B
Vascular Plant Species Observed in the Project Area

Scientific name	Common name	Survey Segments
<i>Salazaria mexicana</i>	bladder sage	C
<i>Salvia columbariae</i>	chia	D, H, L
LOASACEAE		
<i>Eucnide urens</i>	rock nettle	I
<i>Mentzelia albicaulis</i>	white-stemmed blazing star	D, E, G, H, L
<i>Mentzelia involucrata</i>	white-bracted mentzelia	A, C, D
<i>Mentzelia tricuspis</i>	spiny-haired blazing star	G
MALVACEAE		
<i>Hibiscus denudatus</i>	paleface hibiscus	I
<i>Malva parviflora</i>	small-flowered cheeseweed	A
<i>Sphaeralcea ambigua</i> var. <i>ambigua</i>	apricot mallow	C, G, H, L
<i>Spaeralcea emoryi</i>	Emory's globe mallow	G
MYRTACEAE		
<i>Eucalyptus</i> sp.*	eucalyptus	A, B
NYCTAGINACEAE		
<i>Abronia villosa</i>	sand verbena	E, F, G, H, J
<i>Allionia incarnata</i> var. <i>incarnata</i>	trailing windmills	A, C, D, G, H, I, L
<i>Boerhavia coccinea</i>	spiderling	A, B, D, E
<i>Boerhavia wrightii</i>	Wright's spiderling	A, C, D, G, H, I, J, L
<i>Mirabilis laevis</i> var. <i>retrosa</i>	retrorse desert four-o'clock	A, C, D, H, I, L
ONAGRACEAE		
<i>Chylismia arenaria</i> var. <i>arenaria</i>	mousetail suncup	C, D
<i>Chylismia brevipes</i> subsp. <i>brevipes</i>	golden suncup	A, C
<i>Chylismia multijuga</i>	multi-paired suncup	F, G
<i>Eremothera boothii</i> ssp. <i>condensata</i>	Booth's shreading suncup	C
<i>Eremothera refracta</i>	narrow-leaf suncup	C, D, G
<i>Oenothera deltoides</i> ssp. <i>deltoides</i>	bird-cage evening primrose	G
PAPAVERACEAE		
<i>Eschscholzia minutiflora</i>	small-flowered California poppy	A, C, D, E, I, L
PHRYMACEAE		
<i>Mimulus bigelovii</i>	Bigelow's monkeyflower	D
PLANTAGINACEAE		
<i>Mohavea confertiflora</i>	Mojave ghost-flower	D, H, I

APPENDIX B
Vascular Plant Species Observed in the Project Area

Scientific name	Common name	Survey Segments
<i>Plantago ovata</i>	ovate plantain	A, B, C, D, E, F, G, H, I, L
POLEMONIACEAE	phlox family	
<i>Gilia scopulorum</i>	rock gilia	D, F, I
<i>Langloisia setosissima</i> ssp. <i>setosissima</i>	bristly calico	D
POLYGONACEAE	buckwheat family	
<i>Chorizanthe corrugata</i>	wrinkled spineflower	A, C, H, I,
<i>Chorizanthe brevicornu</i> var. <i>brevicornu</i>	brittle spineflower	A, C, D, E, G, H, I, L
<i>Chorizanthe rigida</i>	rigid spineflower	A, C, D, G, H, I, L
<i>Eriogonum deflexum</i> var. <i>deflexum</i>	flat-crown buckwheat	A, B, F, G, H, I
<i>Eriogonum inflatum</i> var. <i>inflatum</i>	inflated desert trumpet	A, C, D, E, H, I, L
<i>Eriogonum thomasi</i>	Thomas's wild buckwheat	C, D, G, H, I, L
<i>Eriogonum trichopes</i>	little desert buckwheat	A, C, D, G, H, I, L
<i>Polygonum argyrocoleon</i>	silver-sheathed knotweed	H
RESEDACEAE	mignonette family	
<i>Oligomeris linifolia</i>	linear-leaved oligomeris	B
RUBIACEAE	coffee family	
<i>Galium angustifolia</i>	narrow-leaved bedstraw	I
SALICACEAE	willow family	
<i>Salix exigua</i>	sand-bar willow	B, E, F, G, I
<i>Salix gooddingii</i>	Goodding's willow	B
<i>Populus fremontii</i>	Fremont's cottonwood	A, B
SOLANACEAE	nightshade family	
<i>Lycium andersonii</i>	Anderson's desert-thorn	C, D, H, I
<i>Nicotiana obtusifolia</i>	desert tobacco	H, I, L
<i>Physalis crassifolia</i>	thick-leaf ground cherry	A, C, H, L
TAMARICACEAE	tamarisk family	
<i>Tamarix ramosissima</i>	salt cedar	A, B, C, D, E, F, G, H, I, J
<i>Tamarix aphylla</i>	athel tamarisk	A, B, D, F, G, L
URTICACEAE	nettle family	
<i>Parietaria hespera</i> var. <i>hespera</i>	western pellitory	D, I
VERBENACEAE	verbena family	
<i>Phyla nodiflora</i>	turkey-tangle frog-fruit	F

**APPENDIX B
Vascular Plant Species Observed in the Project Area**

Scientific name	Common name	Survey Segments
VISCACEAE	mistletoe family	
<i>Phoradendron californicum</i>	desert mistletoe	A, B, C, E, F, G, J
ZYGOPHYLLACEAE	caltrop family	
<i>Fagonia laevis</i>	smooth-stemmed fagonia	I
<i>Kallstroemia californica</i>	California kallstroemia	A, D, G
<i>Larrea tridentata</i>	creosote bush	A—L
<i>Tribulus terrestris</i>	puncture vine	A, C, D, G, H, J
MONOCOTS		
AGAVACEAE	century-plant family	
<i>Hesperocallis undulata</i>	desert lily	G
ARECACEAE	palm family	
<i>Washingtonia filifera</i> *	California fan palm	A
<i>Washingtonia robusta</i>	Mexican fan palm	A, B, E, H, J
CYPERACEAE	sedge family	
<i>Cyperus eragrostis</i>	tall flat sedge	A
<i>Eleocharis geniculata</i>	geniculate spikerush	A, B, E, F
<i>Schoenoplectus californicus</i>	California bulrush	A, B, E, F, G, I, J
JUNCACEAE	rush family	
<i>Juncus xiphiooides</i>	iris-leaved rush	B
<i>Juncus</i> sp.	rush	B, F
POACEAE	grass family	
<i>Andropogon glomeratus</i> ssp. <i>scabriglumis</i>	rough-glume bushy blue stem	A, B, G
<i>Aristida adsensionis</i>	six-weeks three awn	A, C, D, E, G, H, I, J, L
<i>Aristida purpurea</i> var. <i>wrightii</i>	purple three-awn	I
<i>Arundo donax</i>	giant reed	A, E, F, I, J
<i>Bouteloua aristidoides</i>	needle gamma	A, C, D, G, H, I, L
<i>Bouteloua barbata</i> ssp. <i>barbata</i>	six weeks gamma	A, C, D, G, H, I, L
<i>Bromus arizonicus</i>	Arizona brome	A, C, D, G, H, I
<i>Bromus catharticus</i>	rescue brome	D, H
<i>Bromus madritensis</i> ssp. <i>rubens</i>	red brome	A, C, D, E, G, H, I, L
<i>Cynodon dactylon</i>	Bermuda grass	A, B, D, E, G, H, J, I
<i>Distichlis spicata</i>	saltgrass	A, E, H

APPENDIX B
Vascular Plant Species Observed in the Project Area

Scientific name	Common name	Survey Segments
<i>Erioneuron pulchellum</i>	fluff grass	H, I
<i>Hordeum murinum</i> ssp. <i>glaucum</i>	glaucus barley	A, B, C, E, G, H, I, J
<i>Muhlenbergia microsperma</i>	small seeded muhlenbergia	F
<i>Paspalum dilatatum</i>	dallis grass	A, B, F, I
<i>Pennisetum setaceum</i>	feathertop	A, B, E, I
<i>Phalaris minor</i>	lesser canary grass	A, H
<i>Phragmites australis</i>	common reed	A, B, E, F, G, I, J
<i>Pleuraphis rigida</i>	big galeta	A, H
<i>Schismus barbatus</i>	Mediterranean grass	A, C, D, G, H, I, J, L
<i>Setaria gracilis</i>	knotroot bristlegrass	B
<i>Triticum aestivum</i>	wheat	G
<i>Vulpia myuros</i>	foxtail fescue	C, D
<i>Vulpia octoflora</i>	six weeks fescue	C, D
TYPHACEAE	cattail family	
<i>Typha latifolia</i>	broad-leaved cattail	A, C, E, G, I, J
<i>Typha domingensis</i>	southern cattail	A

*cultivated

Appendix C

Photographs from Survey Segments of the

Project Area

Photographs from Survey Segments of the Project Area

Plate 1. Segments A and B. (A- 1) Dry wash south of the Park Moabi and the National Trails Highway with rocky hillside on south side; facing west. A-2) Rocky hills on the south side of National Trails Highway looking west with creosote bush scrub and big galeta grass in small valley between slopes. (A-3) Sewage disposal ponds SW of the intersection of Park Moabi Road and National Trails Highway. (A-4) Landscaped and developed camping areas in Park Moabi. (A-5) Pirate's Cove Resort development. (B-1) Arrow weed thickets in central portion of peninsula; tamarisk thicket in background.



Plate 2. Segments B and C. (B-2) Camping pad on peninsula adjacent to Colorado River. (B-3) Maintained beach opposite Pirate's Cove Resort with western honey mesquite and salt cedar in background. (C-1) Broad wash at north end of Segment C with cattle saltbush and creosote bush. (C-2) Rocky slopes above wash with scattered creosote bush. (C-3) Broad wash at south end of Segment C with blue palo verde woodland and creosote bush scrub. C-4) Desert pavement on hills above washes with creosote bush scrub.

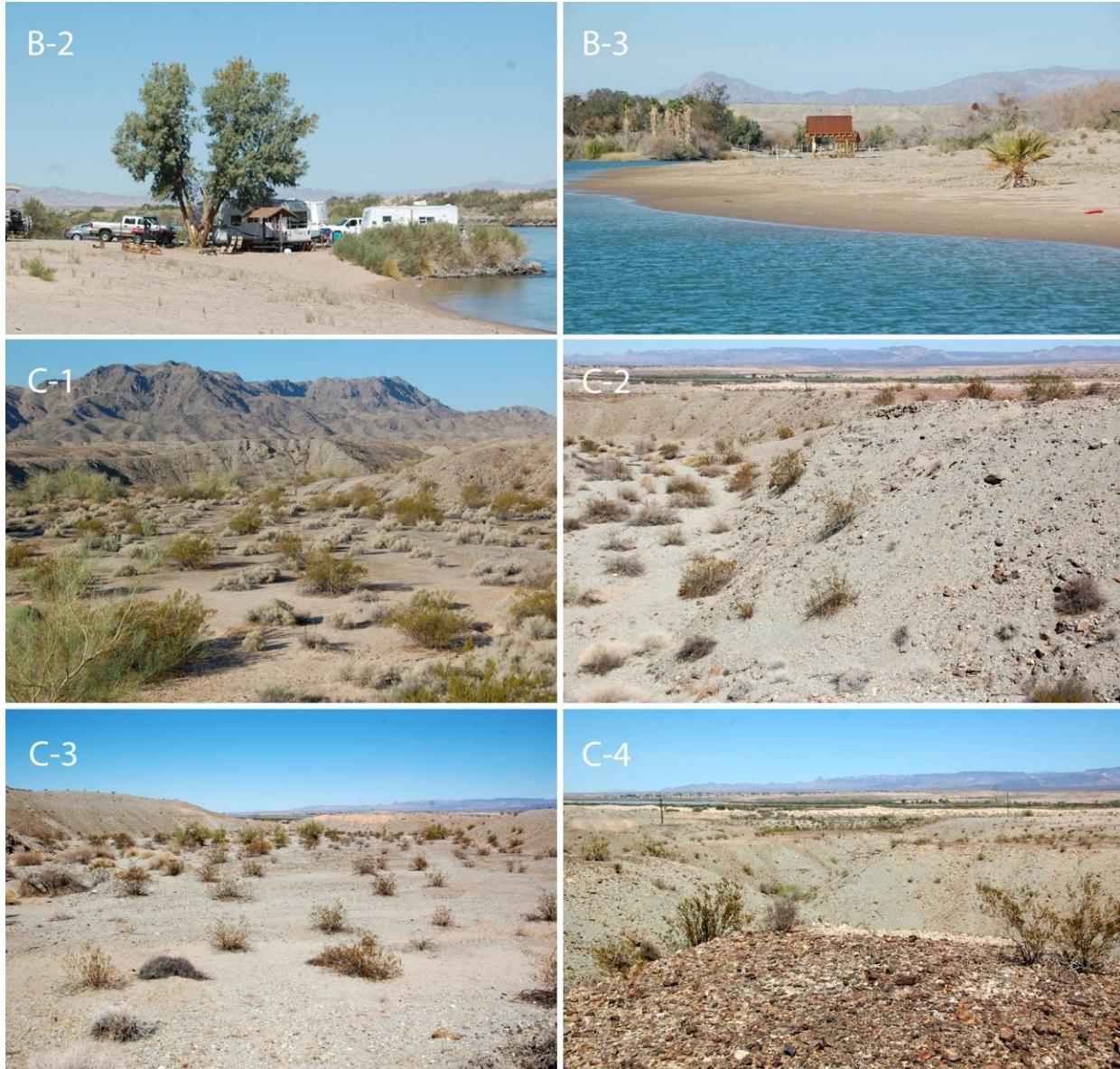


Plate 3. Segments D and E. D-1) Bat Cave Wash with blue palo verde woodland. (D-2). Tamarisk thicket mixed with western honey mesquite at north end of Bat Cave Wash south of National Trails Highway. (E-1) Colorado River and low terrace of dredged sands with tamarisk and arrow weed thickets. (E-2) Close-up of tamarisk thickets on dredged sands. (E-3) National Trails Highway bridge and wetland where Bat Cave Wash enters the Colorado River. (E-4) Upland area of Segment E with creosote bush scrub.

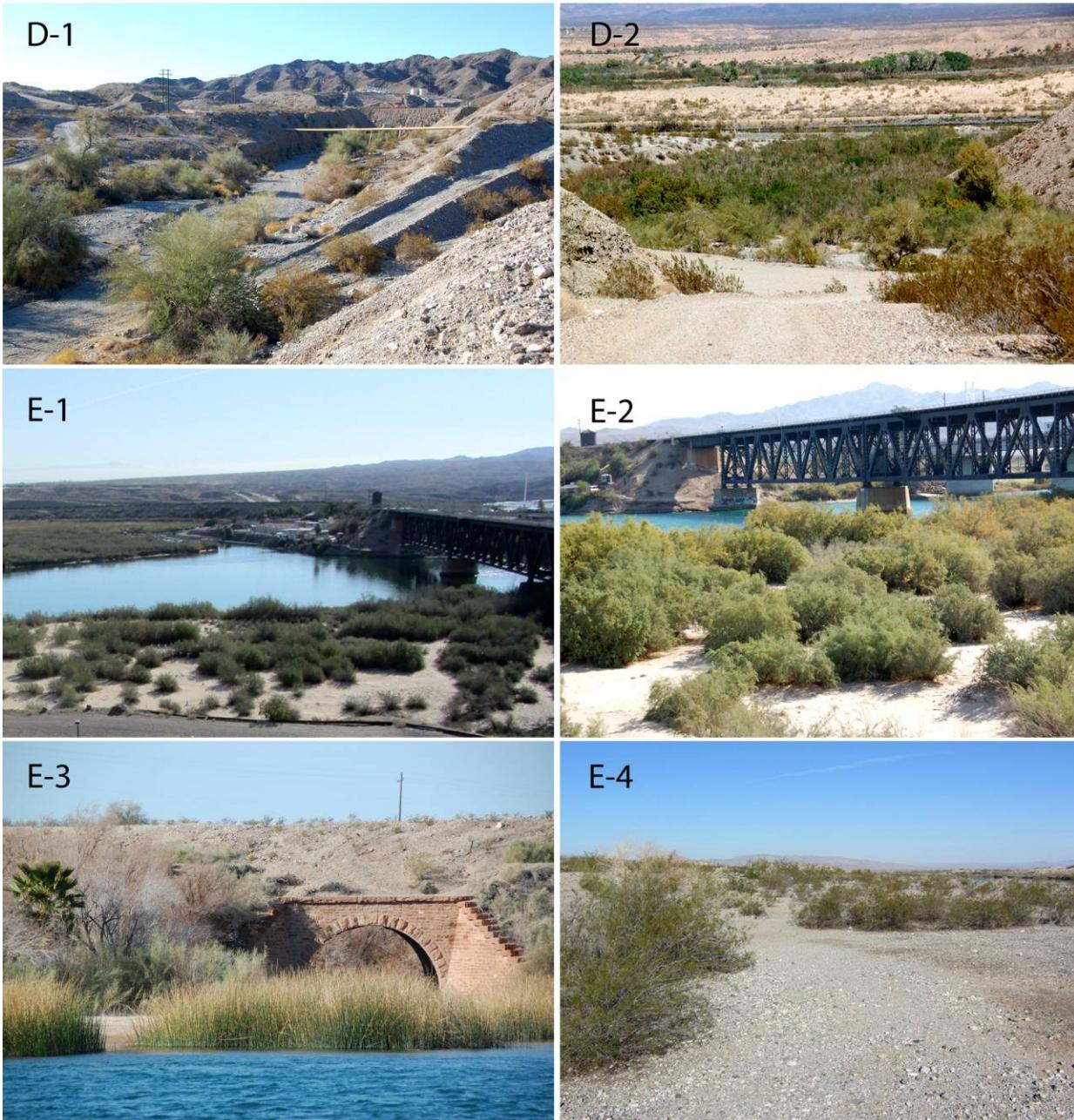


Plate 4. Segments F and G. (F-1) Arrow weed thicket on dredge sands looking north. (F-2) Western honey mesquite, screwbean and tamarisk thickets at southern end of Segment F with small wetland in the southeast corner of photo. (F-3) Close-up of wetland with common reed and sand-bar willow on drier land and California bulrush standing in water. (G-1) Edge of Topock Marsh next to Route 66; big saltbush and salt cedar on higher ground to the left and California bulrush in lower ground to the right. (G-2) Dense tamarisk thicket between BN&SF railroad tracks and Route 66. (G-3) Big saltbush on alkaline soils north of the Topock Marsh, west of County Road 10.

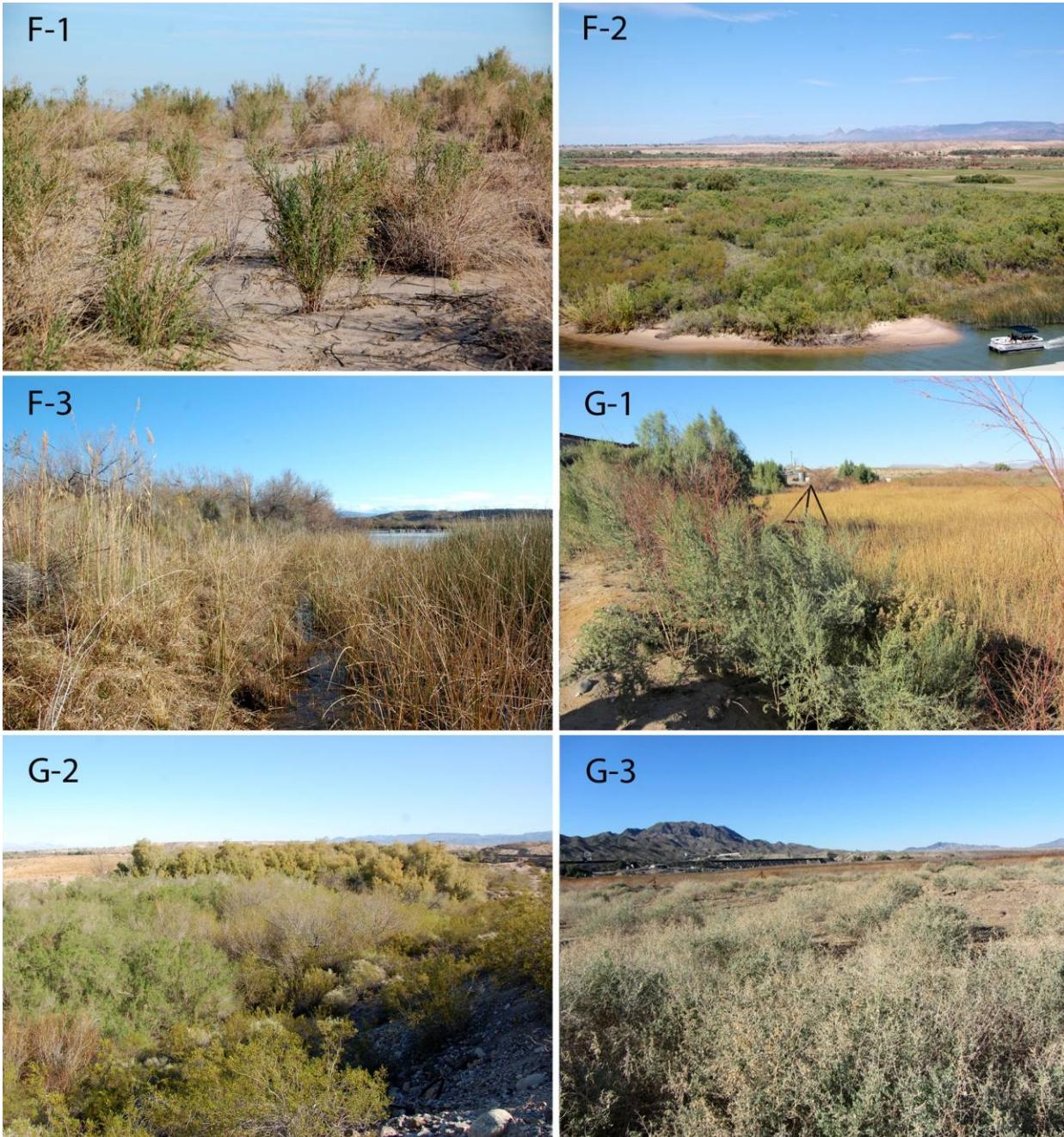


Plate 5. Segments G and H. (G-4) Sandy area with spring annuals including multi-paired suncup, stevia pincushion, brittle spineflower, *Cryptantha* spp., Spanish needles, and desert sunflower. (G-5) Upland rocky area dominated by creosote bush scrub. (H-1) Steep, disturbed, and eroded alluvial terraces below Topock Compressor Station. (H-2) Upper reaches of Bat Cave Wash below the compressor station. (H-3) Decomposing granitic bedrock of the Chemehuevi Mountains next to dissected alluvial terraces in Segment H. (H-4) Metamorphic rocks of the Chemehuevi Mountains in the eastern part of Segment H.

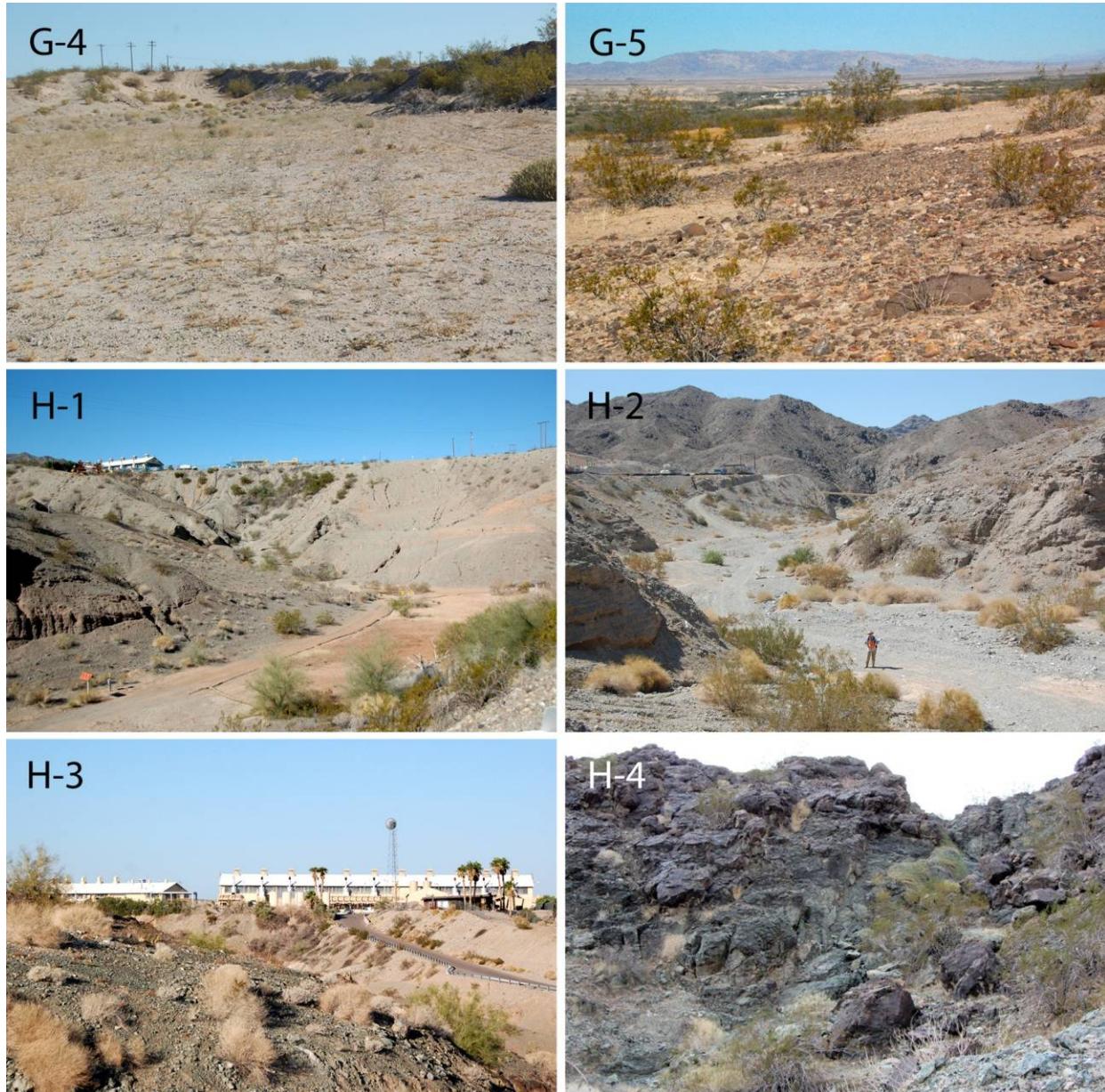
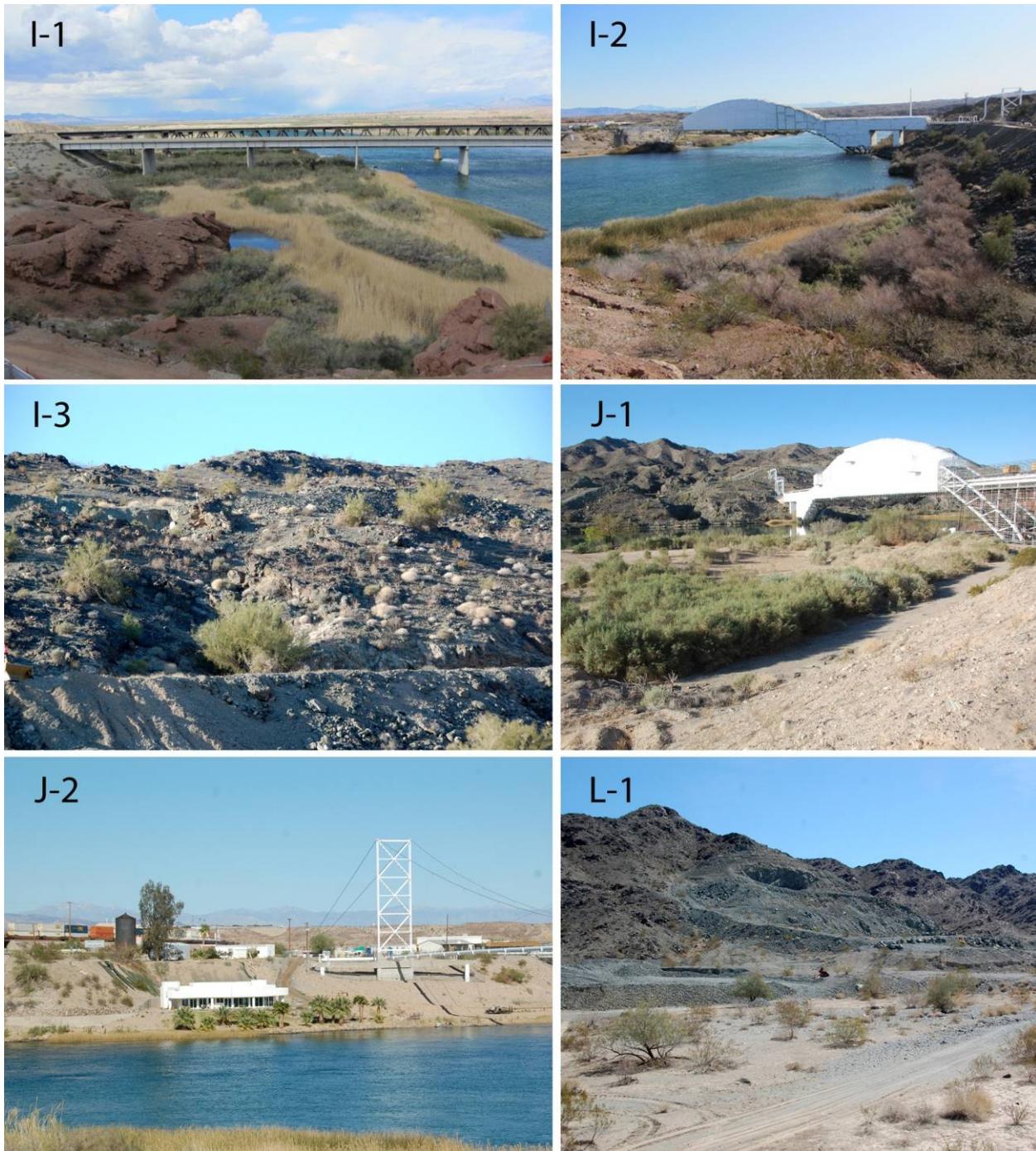


Plate 6. Segments I, J and L. (I-1) Common reed and California bulrush marshes at north end of Segment I with Miocene conglomerate outcrop in lower left of picture. (I-2) California bulrush marsh in river, honey mesquite at base of upland slope and hillside palo verde slightly higher up slope. (I-3) Hillside palo verde on slopes of Segment I above the Colorado River with white bursage and brittle bush. (J-1) Arrow weed and big saltbush in area below private residence along the Colorado River. (J-2) Private residence with landscaped areas (Mexican fan palms) and creosote bush scrub on slopes. (L-1) Blue palo verde woodland in sandy wash at quarry site; gravel piles visible at foot of Chemehuevi Mountains in background.



Appendix D

Photographs of Plants of Cultural Significance

Found in the Project Area

Photographs of Plants of Cultural Significance Found in the Project Area

Plate 1. Ethnotrees: Palo verde. (1) Blue palo verde (*Parkinsonia florida*) showing characteristic growth habit. (2) Blue paloverde leaves with few, large bluish leaflets. (3) Close-up of blue palo verde flower. (4) Hillside palo verde (*Parkinsonia microphylla*) growth habit (5) Hillside palo verde leaves with many, small green leaflets. (6) Close-up of hillside palo verde flower.

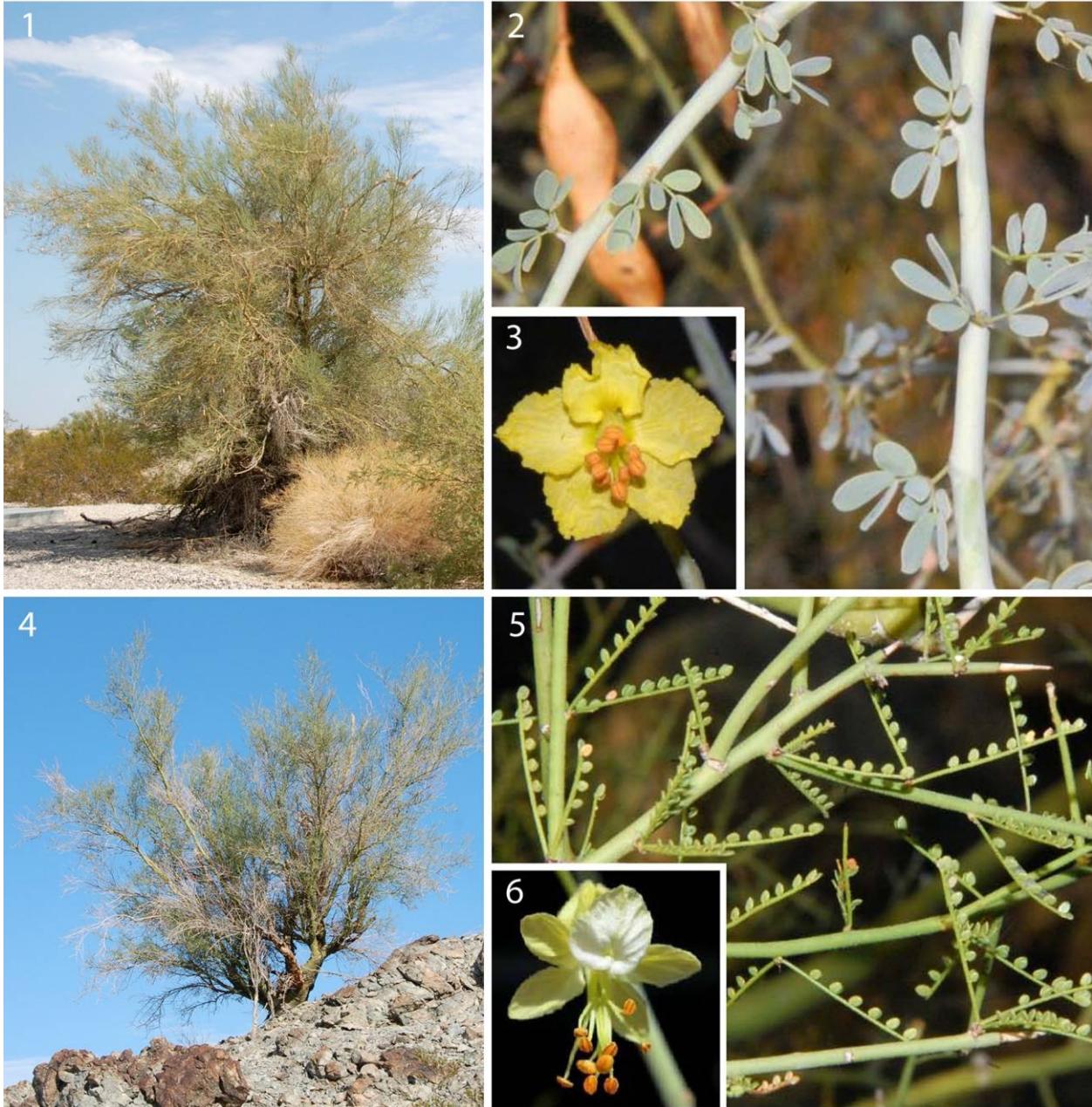


Plate 2. Ethnotrees: Mesquites and willow. 1) Western honey mesquite (*Prosopis glandulosa* var. *torreyana*) branches. (2) Close-up of western honey mesquite fruit. (3) Screwbean mesquite (*Prosopis pubescens*) branches, leaves and fruit. (4) Fruiting branch of Gooodding's willow (*Salix gooddingii*). (5) Leaves of Gooodding's willow.

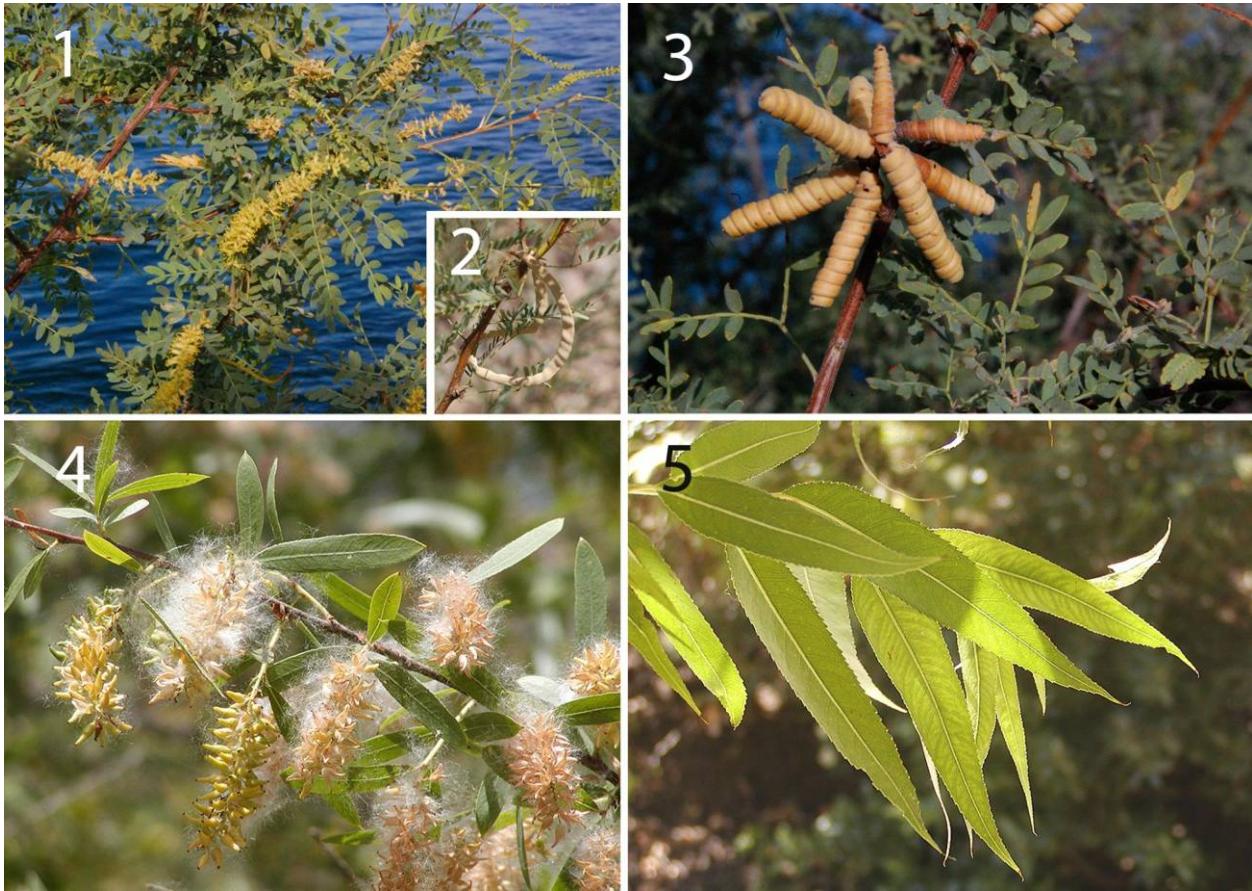


Plate 3. Ethnoshrubs. (1) Big saltbush (*Atriplex lentiformis*) population in Segment G. (2) Close-up of male big saltbush plant. (3) Habit of cattle saltbush (*Atriplex polycarpa*) in Segment G. (4) Close-up of branch of female cattle saltbush plant.

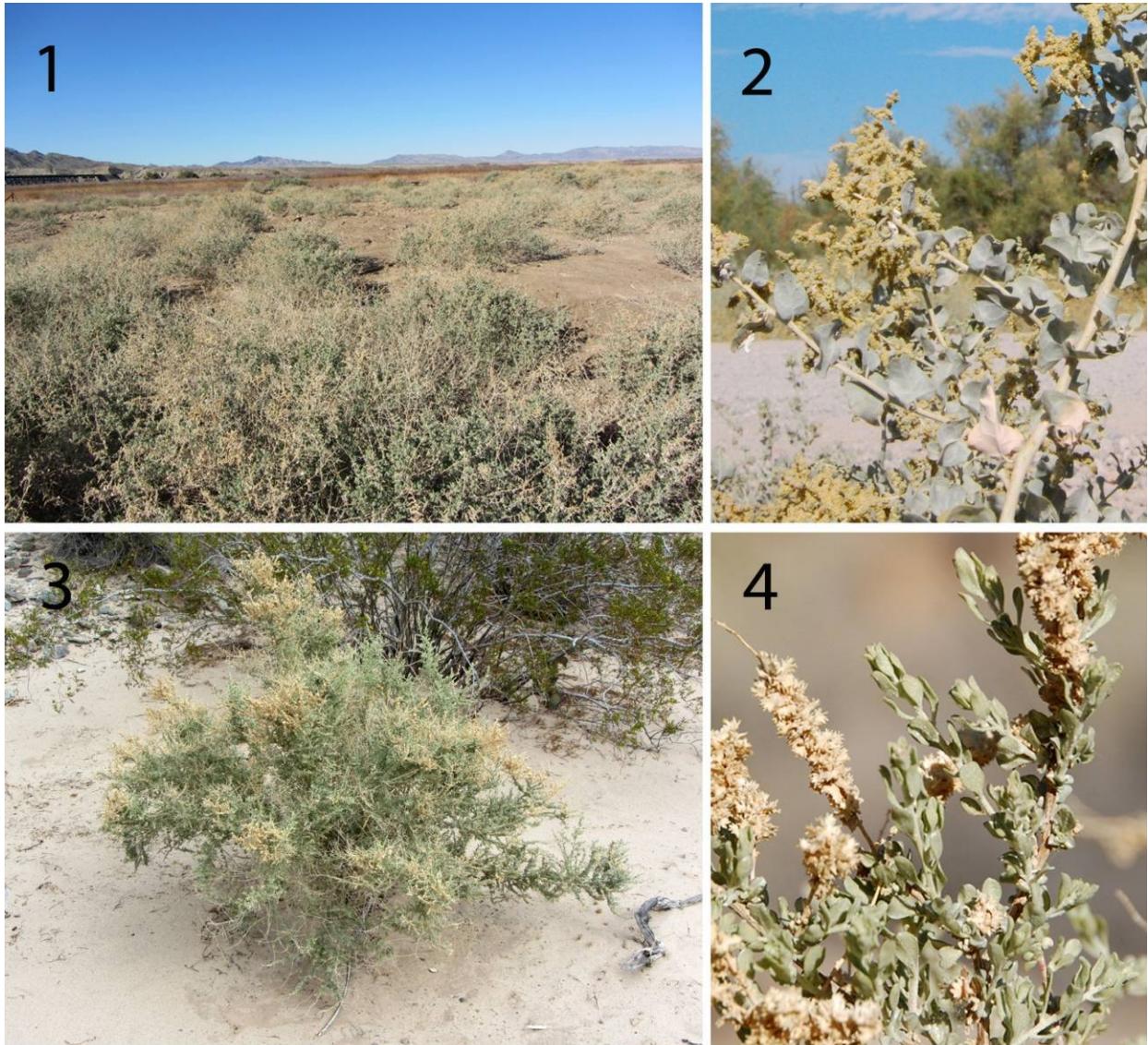


Plate 4. Ethnoherbs. (1) Dry skeletons of chia (*Salvia columbariae*) from spring 2011. (2) Chia flowers. (3) Desert tobacco (*Nicotiana obtusifolia*). (4) Desert lily (*Hesperocallis undulata*) flowers. (5) Desert lily flower close-up. (6) Golden suncup (*Chylismia brevipes* subsp. *brevipes*).

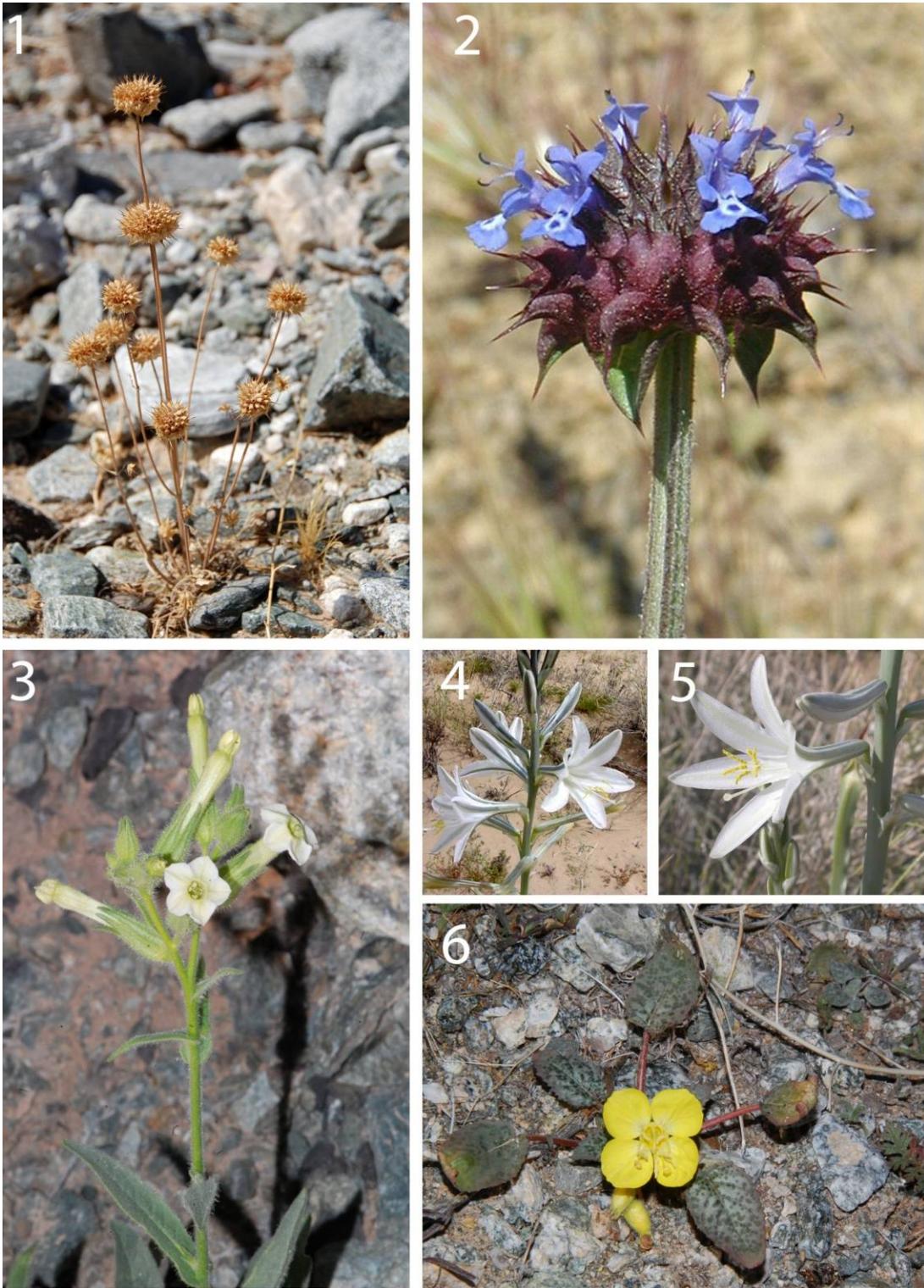


Plate 5. Ethnoherbs—wetland plants. (1) Broadleaf cattail (*Typha latifolia*) marsh in survey Segment C. (2) Close-up of broad-leaved cattail. (3) Common reed (*Phragmites australis*) marsh. (4) Close-up of common reed.



Appendix E

**Avoidance and Restoration Plan for Culturally
Significant Plant Species**

Avoidance and Restoration Plan for Culturally Significant Plant Species

All efforts are to be made during the remediation process to avoid impacts to plants, especially to those of cultural significance listed in the Appendix PLA of the EIR.

Under Mitigation Number CUL-1a-5 in the mitigation monitoring and reporting program for the Topock Groundwater Remediation Project (DTSC, 2011), it is proposed that if any indigenous plants of traditional cultural significance listed in the Appendix PLA of the FEIR are identified in the project area, PG&E shall avoid, protect, and encourage the natural regeneration of the identified plants when developing the remediation design, final restoration plan and IM-3 decommission plan.

Furthermore, it states that in the event that identified plants cannot be avoided and such plants will be displaced, PG&E shall retain a qualified botanist who shall prepare a plant transplantation/monitoring plan which can be included as part of the Cultural Impact Mitigation Program either by:

1. Transplanting such indigenous plants to an on-site location, or
2. Providing a 2:1 ratio replacement to another location decided upon between PG&E and members of the Interested Tribes.

The mitigation measure also states that PG&E shall monitor all replanted and replacement plants for at least 3-5 years, and shall ensure at least a 75 percent survivorship during that time.

Mitigation for Culturally Significant Annual Plants

While suitable for trees, shrubs and herbaceous perennials, the mitigation measure outlined above is not appropriate for species that regenerate annually from seed stored in the soil. There are two such species on the PLA list that are known to occur in the Project Area, chia (*Salvia columbariae*) and golden suncup (*Chylismia brevipes* subsp. *brevipes*). No precise information is available on the abundance and distribution of these species in the Project Area, mainly because both species were rare during the spring survey of 2012. The only indication of their presence in the Project Area was the persistence of woody stalks in the case of chia and both woody stalks and a few live individuals in the case of golden suncup. Woody stalks from both species can remain in the environment for at least a year and possibly longer (Appendix D, Plate 4-1 and 4-6).

Live plants of golden suncup were observed during the fall survey of 2011 and spring survey of 2012, but individuals were very scattered and mostly on the rocky slopes above the dry washes of survey segments A, C and D. The dried stalks observed indicate that these plants can be quite common in an average or above average rainfall year.

Chia is known to occur in Segments D, H, and L, but may be more widespread than surveys from 2011-2012 suggest. Since chia has been observed to occur in Bat Cave wash in both Segments D and H, it is the species most likely to be impacted by the activities of the remediation project (e.g., trenching for pipelines, building of new access roads and the accessing of injection wells). It has been observed growing on the floor of Bat Cave Wash, especially around the injection wells in Section H. Chia typically occurs in dry, disturbed habitats (Baldwin et al. 2012), so that it is very likely that most small scale disturbance during construction activities would likely promote rather than hinder the establishment and reproduction of this species, at least for one or two years after completion of construction. Therefore, unless major disturbance to the floor of Bat Cave Wash is envisioned, it is unlikely that populations of this species will be adversely affected by the Topock Groundwater Remediation project.

In order to mitigate for annual species, such as chia or golden suncup, one should either collect and store seed prior to the disturbance and to re-seed post-construction or salvage the topsoil (3-4 inches) where construction or

disturbance will take place and store that soil until after construction. Topsoil salvaged from short-term disturbance areas should be piled to no more than 4 feet high and stabilized to prevent loss during storage. It should be re-spread during site rehabilitation as an initial procedure following construction. These measures will preserve a portion of the existing seed bank through construction. In short-term disturbance areas, the existing seed bank present in the topsoil has advantages over subsequently sown seed in that it is pre-conditioned to the soils environment.

Additional floristic surveys will be completed in the spring of 2013 to focus on areas where culturally significant plant species are likely to occur in the Project Area. The purpose of these surveys is to better document the size and distribution of these plant populations under more favorable rainfall conditions.

A full Avoidance and Restoration Plan for culturally significant plant species as required under Mitigation Number CUL-1a-5 of the Topock Groundwater Remediation Project (DTSC 2011) will be developed to address transplantation and planting methods, performance criteria, maintenance activities, frequency of monitoring and reporting requirements, and an adaptive management approach.

Appendix F

**Locations for Culturally Significant Plants in the
Project Area**

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
1. Blue and Hillside Palo Verde				
ID_1000	Blue Palo Verde	<i>Parkinsonia florida</i>	2386862.204	12617328.66
ID_1001	Blue Palo Verde	<i>Parkinsonia florida</i>	2387712.623	12616089.3
ID_1002	Blue Palo Verde	<i>Parkinsonia florida</i>	2387677.425	12616044.72
ID_1003	Blue Palo Verde	<i>Parkinsonia florida</i>	2387680.519	12616036.91
ID_1004	Blue Palo Verde	<i>Parkinsonia florida</i>	2387731.657	12616033.52
ID_1005	Blue Palo Verde	<i>Parkinsonia florida</i>	2387750.766	12615994.28
ID_1006	Blue Palo Verde	<i>Parkinsonia florida</i>	2387861.061	12616082.24
ID_1007	Blue Palo Verde	<i>Parkinsonia florida</i>	2387887.818	12616107.77
ID_1008	Blue Palo Verde	<i>Parkinsonia florida</i>	2387935.406	12616100.03
ID_1009	Blue Palo Verde	<i>Parkinsonia florida</i>	2387977.533	12616108.25
ID_1010	Blue Palo Verde	<i>Parkinsonia florida</i>	2388039.018	12616071.95
ID_1011	Blue Palo Verde	<i>Parkinsonia florida</i>	2388051.928	12616043.9
ID_1013	Blue Palo Verde	<i>Parkinsonia florida</i>	2388097.949	12615940.48
ID_1014	Blue Palo Verde	<i>Parkinsonia florida</i>	2388109.328	12615947.35
ID_1015	Blue Palo Verde	<i>Parkinsonia florida</i>	2388104.927	12615870.66
ID_1016	Blue Palo Verde	<i>Parkinsonia florida</i>	2388203.707	12616106.34
ID_1017	Blue Palo Verde	<i>Parkinsonia florida</i>	2388171.342	12616185.65
ID_1018	Blue Palo Verde	<i>Parkinsonia florida</i>	2388197.686	12616213.36
ID_1020	Blue Palo Verde	<i>Parkinsonia florida</i>	2388175.456	12616221.03
ID_1021	Blue Palo Verde	<i>Parkinsonia florida</i>	2388158.563	12616227.45
ID_1025	Blue Palo Verde	<i>Parkinsonia florida</i>	2388020.942	12616233.24
ID_1026	Blue Palo Verde	<i>Parkinsonia florida</i>	2387935.909	12616232.95
ID_1028	Blue Palo Verde	<i>Parkinsonia florida</i>	2396893.905	12613352.15
ID_1029	Blue Palo Verde	<i>Parkinsonia florida</i>	2396862.922	12613361.96
ID_1030	Blue Palo Verde	<i>Parkinsonia florida</i>	2396849.923	12613404.62
ID_1031	Blue Palo Verde	<i>Parkinsonia florida</i>	2396928.573	12613383.83
ID_1032	Blue Palo Verde	<i>Parkinsonia florida</i>	2396955.339	12613417.08
ID_1033	Blue Palo Verde	<i>Parkinsonia florida</i>	2396990.682	12613424.38
ID_1034	Blue Palo Verde	<i>Parkinsonia florida</i>	2396993.306	12613388.43
ID_1035	Blue Palo Verde	<i>Parkinsonia florida</i>	2397147.406	12613433.03
ID_1036	Blue Palo Verde	<i>Parkinsonia florida</i>	2397204.786	12613432.25

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1039	Blue Palo Verde	<i>Parkinsonia florida</i>	2396730.188	12613379.22
ID_1040	Blue Palo Verde	<i>Parkinsonia florida</i>	2396573.85	12613341.77
ID_1041	Blue Palo Verde	<i>Parkinsonia florida</i>	2396564.289	12613374.24
ID_1042	Blue Palo Verde	<i>Parkinsonia florida</i>	2396355.104	12613371.47
ID_1048	Blue Palo Verde	<i>Parkinsonia florida</i>	2398110.705	12614565.09
ID_1114	Blue Palo Verde	<i>Parkinsonia florida</i>	2392063.798	12616174.78
ID_1115	Blue Palo Verde	<i>Parkinsonia florida</i>	2392057.279	12616134.77
ID_1116	Blue Palo Verde	<i>Parkinsonia florida</i>	2392073.556	12616069.22
ID_1117	Blue Palo Verde	<i>Parkinsonia florida</i>	2392065.188	12616067.71
ID_1118	Blue Palo Verde	<i>Parkinsonia florida</i>	2392010.814	12616073.59
ID_1119	Blue Palo Verde	<i>Parkinsonia florida</i>	2391980.389	12616038.55
ID_1120	Blue Palo Verde	<i>Parkinsonia florida</i>	2392029.87	12616042.72
ID_1121	Blue Palo Verde	<i>Parkinsonia florida</i>	2391996.397	12615999.47
ID_1122	Blue Palo Verde	<i>Parkinsonia florida</i>	2391969.564	12616099.71
ID_1123	Blue Palo Verde	<i>Parkinsonia florida</i>	2391923.084	12616174.78
ID_1124	Blue Palo Verde	<i>Parkinsonia florida</i>	2391983.994	12616173.34
ID_1125	Blue Palo Verde	<i>Parkinsonia florida</i>	2391922.031	12616114.46
ID_1126	Blue Palo Verde	<i>Parkinsonia florida</i>	2391787.349	12615857.1
ID_1127	Blue Palo Verde	<i>Parkinsonia florida</i>	2391786.15	12615793.79
ID_1128	Blue Palo Verde	<i>Parkinsonia florida</i>	2391693.799	12615787.6
ID_1129	Blue Palo Verde	<i>Parkinsonia florida</i>	2391628.841	12615802.32
ID_1130	Blue Palo Verde	<i>Parkinsonia florida</i>	2391606.479	12615717.2
ID_1131	Blue Palo Verde	<i>Parkinsonia florida</i>	2391611.28	12615799.98
ID_1132	Blue Palo Verde	<i>Parkinsonia florida</i>	2391557.186	12615773.86
ID_1133	Blue Palo Verde	<i>Parkinsonia florida</i>	2391544.79	12615781.95
ID_1134	Blue Palo Verde	<i>Parkinsonia florida</i>	2391535.269	12615780.88
ID_1135	Blue Palo Verde	<i>Parkinsonia florida</i>	2391518.633	12615788.53
ID_1136	Blue Palo Verde	<i>Parkinsonia florida</i>	2391504.7	12615796.55
ID_1137	Blue Palo Verde	<i>Parkinsonia florida</i>	2391499.671	12615781.76
ID_1138	Blue Palo Verde	<i>Parkinsonia florida</i>	2391491.938	12615832.63
ID_1139	Blue Palo Verde	<i>Parkinsonia florida</i>	2391445.401	12615827.98
ID_1140	Blue Palo Verde	<i>Parkinsonia florida</i>	2391337.187	12615803.26

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1141	Blue Palo Verde	<i>Parkinsonia florida</i>	2391303.873	12615803.43
ID_1142	Blue Palo Verde	<i>Parkinsonia florida</i>	2391282.868	12615822.45
ID_1143	Blue Palo Verde	<i>Parkinsonia florida</i>	2391259.163	12615813.78
ID_1144	Blue Palo Verde	<i>Parkinsonia florida</i>	2391160.486	12615802.68
ID_1145	Blue Palo Verde	<i>Parkinsonia florida</i>	2391160.886	12615780.18
ID_1146	Blue Palo Verde	<i>Parkinsonia florida</i>	2391171.241	12615743.96
ID_1147	Blue Palo Verde	<i>Parkinsonia florida</i>	2391138.787	12615732.24
ID_1148	Blue Palo Verde	<i>Parkinsonia florida</i>	2391077.681	12615717.75
ID_1149	Blue Palo Verde	<i>Parkinsonia florida</i>	2391027.812	12615553.46
ID_1150	Blue Palo Verde	<i>Parkinsonia florida</i>	2391043.41	12615459.2
ID_1151	Blue Palo Verde	<i>Parkinsonia florida</i>	2391024.269	12615433.3
ID_1152	Blue Palo Verde	<i>Parkinsonia florida</i>	2391025.858	12615407.76
ID_1153	Blue Palo Verde	<i>Parkinsonia florida</i>	2390997.603	12615394.54
ID_1154	Blue Palo Verde	<i>Parkinsonia florida</i>	2390987.942	12615391.94
ID_1155	Blue Palo Verde	<i>Parkinsonia florida</i>	2390817.931	12615372.94
ID_1156	Blue Palo Verde	<i>Parkinsonia florida</i>	2390575.215	12615458.77
ID_1157	Blue Palo Verde	<i>Parkinsonia florida</i>	2390552.657	12615465.17
ID_1159	Blue Palo Verde	<i>Parkinsonia florida</i>	2390242.58	12615241.65
ID_1160	Blue Palo Verde	<i>Parkinsonia florida</i>	2390228.455	12615090.17
ID_1161	Blue Palo Verde	<i>Parkinsonia florida</i>	2390237.708	12615018.44
ID_1162	Blue Palo Verde	<i>Parkinsonia florida</i>	2390181.04	12614939.13
ID_1163	Blue Palo Verde	<i>Parkinsonia florida</i>	2390194.947	12614886.92
ID_1164	Blue Palo Verde	<i>Parkinsonia florida</i>	2390260.13	12614881.8
ID_1165	Blue Palo Verde	<i>Parkinsonia florida</i>	2390186.914	12614815.79
ID_1166	Blue Palo Verde	<i>Parkinsonia florida</i>	2390181.412	12614811.72
ID_1167	Blue Palo Verde	<i>Parkinsonia florida</i>	2390208.876	12614517.77
ID_1168	Blue Palo Verde	<i>Parkinsonia florida</i>	2390236.306	12614472.63
ID_1173	Blue Palo Verde	<i>Parkinsonia florida</i>	2391094.064	12614515.08
ID_1174	Blue Palo Verde	<i>Parkinsonia florida</i>	2391133.012	12614439.41
ID_1186	Blue Palo Verde	<i>Parkinsonia florida</i>	2392176.256	12615813.44
ID_1187	Blue Palo Verde	<i>Parkinsonia florida</i>	2392180.401	12615939.72
ID_1343	Blue Palo Verde	<i>Parkinsonia florida</i>	2394227.046	12612831.88

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1344	Blue Palo Verde	<i>Parkinsonia florida</i>	2394108.832	12612675.66
ID_1345	Blue Palo Verde	<i>Parkinsonia florida</i>	2394104.297	12612661.92
ID_1346	Blue Palo Verde	<i>Parkinsonia florida</i>	2394110.345	12612655.61
ID_1350	Blue Palo Verde	<i>Parkinsonia florida</i>	2393210.218	12613469.22
ID_1351	Blue Palo Verde	<i>Parkinsonia florida</i>	2393231.876	12613493.59
ID_1352	Blue Palo Verde	<i>Parkinsonia florida</i>	2393227.388	12613589.14
ID_1353	Blue Palo Verde	<i>Parkinsonia florida</i>	2393202.652	12613580.44
ID_1354	Blue Palo Verde	<i>Parkinsonia florida</i>	2393208.335	12613605.65
ID_1362	Blue Palo Verde	<i>Parkinsonia florida</i>	2393125.778	12613485.87
ID_1363	Blue Palo Verde	<i>Parkinsonia florida</i>	2393137.254	12613443.61
ID_1364	Blue Palo Verde	<i>Parkinsonia florida</i>	2393138.643	12613442.25
ID_1365	Blue Palo Verde	<i>Parkinsonia florida</i>	2393143.549	12613453.89
ID_1401	Blue Palo Verde	<i>Parkinsonia florida</i>	2392142.638	12610462.7
ID_1440	Blue Palo Verde	<i>Parkinsonia florida</i>	2394618.189	12613016.67
ID_1441	Blue Palo Verde	<i>Parkinsonia florida</i>	2394615.859	12613025.45
ID_1442	Blue Palo Verde	<i>Parkinsonia florida</i>	2394549.837	12612996.83
ID_1443	Blue Palo Verde	<i>Parkinsonia florida</i>	2394616.209	12612971.77
ID_156	Blue Palo Verde	<i>Parkinsonia florida</i>	2394559.927	12612922.26
ID_157	Blue Palo Verde	<i>Parkinsonia florida</i>	2394535.632	12612888.26
ID_158	Blue Palo Verde	<i>Parkinsonia florida</i>	2394529.61	12612899.4
ID_159	Blue Palo Verde	<i>Parkinsonia florida</i>	2394435.463	12612919.41
ID_160	Blue Palo Verde	<i>Parkinsonia florida</i>	2394422.925	12612950.16
ID_1613	Blue Palo Verde	<i>Parkinsonia florida</i>	2395941.361	12612277.18
ID_166	Blue Palo Verde	<i>Parkinsonia florida</i>	2394134.012	12612792.76
ID_167	Blue Palo Verde	<i>Parkinsonia florida</i>	2393868.473	12612534.78
ID_169	Blue Palo Verde	<i>Parkinsonia florida</i>	2393204.568	12613490.6
ID_170	Blue Palo Verde	<i>Parkinsonia florida</i>	2393207.306	12613495.04
ID_171	Blue Palo Verde	<i>Parkinsonia florida</i>	2393197.961	12613516.06
ID_172	Blue Palo Verde	<i>Parkinsonia florida</i>	2393187.305	12613521.4
ID_173	Blue Palo Verde	<i>Parkinsonia florida</i>	2393190.147	12613543.76
ID_174	Blue Palo Verde	<i>Parkinsonia florida</i>	2393176.636	12613543.02
ID_175	Blue Palo Verde	<i>Parkinsonia florida</i>	2393160.909	12613649.56

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_176	Blue Palo Verde	<i>Parkinsonia florida</i>	2393206.176	12613656.44
ID_177	Blue Palo Verde	<i>Parkinsonia florida</i>	2393141.707	12613657.28
ID_178	Blue Palo Verde	<i>Parkinsonia florida</i>	2393278.721	12613656.14
ID_1780	Blue Palo Verde	<i>Parkinsonia florida</i>	2386204.21	12616209.66
ID_1781	Blue Palo Verde	<i>Parkinsonia florida</i>	2386186.543	12616177.99
ID_1782	Blue Palo Verde	<i>Parkinsonia florida</i>	2386127.522	12616250.31
ID_1784	Blue Palo Verde	<i>Parkinsonia florida</i>	2386203.908	12616195.76
ID_1787	Blue Palo Verde	<i>Parkinsonia florida</i>	2386248.737	12615819.76
ID_179	Blue Palo Verde	<i>Parkinsonia florida</i>	2393258.909	12613653.61
ID_1790	Blue Palo Verde	<i>Parkinsonia florida</i>	2386394.556	12616083.23
ID_1791	Blue Palo Verde	<i>Parkinsonia florida</i>	2386416.965	12615943.32
ID_1793	Blue Palo Verde	<i>Parkinsonia florida</i>	2386434.643	12615894.75
ID_1794	Blue Palo Verde	<i>Parkinsonia florida</i>	2386562.373	12616087.18
ID_1795	Blue Palo Verde	<i>Parkinsonia florida</i>	2386553.168	12616062.72
ID_1796	Blue Palo Verde	<i>Parkinsonia florida</i>	2386563.593	12616011.76
ID_1797	Blue Palo Verde	<i>Parkinsonia florida</i>	2386580.431	12615976.78
ID_1798	Blue Palo Verde	<i>Parkinsonia florida</i>	2386896.442	12616036.63
ID_1804	Blue Palo Verde	<i>Parkinsonia florida</i>	2388029.335	12616998.11
ID_1805	Blue Palo Verde	<i>Parkinsonia florida</i>	2387639.182	12616318.37
ID_1819	Blue Palo Verde	<i>Parkinsonia florida</i>	2391270.544	12617550.91
ID_1842	Blue Palo Verde	<i>Parkinsonia florida</i>	2391751.733	12617039.94
ID_1846	Blue Palo Verde	<i>Parkinsonia florida</i>	2387295.191	12616015.85
ID_1848	Blue Palo Verde	<i>Parkinsonia florida</i>	2387300.872	12615975.85
ID_1854	Blue Palo Verde	<i>Parkinsonia florida</i>	2386081.196	12615840.36
ID_1855	Blue Palo Verde	<i>Parkinsonia florida</i>	2390301.237	12614516.35
ID_1857	Blue Palo Verde	<i>Parkinsonia florida</i>	2390357.076	12614891.63
ID_1858	Blue Palo Verde	<i>Parkinsonia florida</i>	2390374.726	12614919.94
ID_1860	Blue Palo Verde	<i>Parkinsonia florida</i>	2390931.544	12614542.03
ID_1861	Blue Palo Verde	<i>Parkinsonia florida</i>	2391020.772	12614502.93
ID_1862	Blue Palo Verde	<i>Parkinsonia florida</i>	2391059.295	12614534.51
ID_1863	Blue Palo Verde	<i>Parkinsonia florida</i>	2391150.607	12614495.39
ID_1868	Blue Palo Verde	<i>Parkinsonia florida</i>	2388637.38	12616426.29

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1871	Blue Palo Verde	<i>Parkinsonia florida</i>	2388865.203	12616518.33
ID_1873	Blue Palo Verde	<i>Parkinsonia florida</i>	2389039.018	12616576
ID_1874	Blue Palo Verde	<i>Parkinsonia florida</i>	2389058.338	12616580.24
ID_1885	Blue Palo Verde	<i>Parkinsonia florida</i>	2390761.428	12616764.16
ID_1887	Blue Palo Verde	<i>Parkinsonia florida</i>	2390834.409	12616763.39
ID_1888	Blue Palo Verde	<i>Parkinsonia florida</i>	2391144.237	12616727.61
ID_1894	Blue Palo Verde	<i>Parkinsonia florida</i>	2392960.498	12616391.64
ID_1897	Blue Palo Verde	<i>Parkinsonia florida</i>	2392933.085	12616102.22
ID_1898	Blue Palo Verde	<i>Parkinsonia florida</i>	2392971.811	12616066.92
ID_1899	Blue Palo Verde	<i>Parkinsonia florida</i>	2393011.232	12615940.14
ID_1902	Blue Palo Verde	<i>Parkinsonia florida</i>	2393303.234	12616172.21
ID_1903	Blue Palo Verde	<i>Parkinsonia florida</i>	2393385.73	12616215.68
ID_1905	Blue Palo Verde	<i>Parkinsonia florida</i>	2393367.234	12616233.23
ID_1907	Blue Palo Verde	<i>Parkinsonia florida</i>	2393531.846	12616277.92
ID_1910	Blue Palo Verde	<i>Parkinsonia florida</i>	2393621.256	12615622.44
ID_1911	Blue Palo Verde	<i>Parkinsonia florida</i>	2393555.201	12615634.04
ID_1912	Blue Palo Verde	<i>Parkinsonia florida</i>	2393567.142	12615603.7
ID_1913	Blue Palo Verde	<i>Parkinsonia florida</i>	2393533.137	12615642.07
ID_1915	Blue Palo Verde	<i>Parkinsonia florida</i>	2393660.371	12615521.49
ID_1917	Blue Palo Verde	<i>Parkinsonia florida</i>	2392827.761	12615494.82
ID_1925	Blue Palo Verde	<i>Parkinsonia florida</i>	2392160.995	12615454.83
ID_1926	Blue Palo Verde	<i>Parkinsonia florida</i>	2391992.856	12615096.9
ID_1927	Blue Palo Verde	<i>Parkinsonia florida</i>	2392151.955	12614304.4
ID_1932	Blue Palo Verde	<i>Parkinsonia florida</i>	2392886.371	12614812.88
ID_1934	Blue Palo Verde	<i>Parkinsonia florida</i>	2393328.527	12614740.74
ID_1935	Blue Palo Verde	<i>Parkinsonia florida</i>	2393348.326	12614723.18
ID_1936	Blue Palo Verde	<i>Parkinsonia florida</i>	2393371.614	12614707.32
ID_1937	Blue Palo Verde	<i>Parkinsonia florida</i>	2393369.588	12614765.52
ID_1938	Blue Palo Verde	<i>Parkinsonia florida</i>	2393022.726	12614465.91
ID_1943	Blue Palo Verde	<i>Parkinsonia florida</i>	2393170.21	12613754.1
ID_1944	Blue Palo Verde	<i>Parkinsonia florida</i>	2393177.77	12613815.68
ID_1946	Blue Palo Verde	<i>Parkinsonia florida</i>	2392828.139	12614110.07

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1947	Blue Palo Verde	<i>Parkinsonia florida</i>	2392932.273	12614102.96
ID_1951	Blue Palo Verde	<i>Parkinsonia florida</i>	2393914.826	12614852.99
ID_1952	Blue Palo Verde	<i>Parkinsonia florida</i>	2393944.968	12614531.21
ID_1953	Blue Palo Verde	<i>Parkinsonia florida</i>	2393989.526	12614558.38
ID_1958	Blue Palo Verde	<i>Parkinsonia florida</i>	2394107.622	12614436.97
ID_1959	Blue Palo Verde	<i>Parkinsonia florida</i>	2394111.834	12614388.99
ID_1960	Blue Palo Verde	<i>Parkinsonia florida</i>	2394131.778	12614246.55
ID_1962	Blue Palo Verde	<i>Parkinsonia florida</i>	2394180.653	12614428.16
ID_1967	Blue Palo Verde	<i>Parkinsonia florida</i>	2393787.607	12615290.04
ID_1969	Blue Palo Verde	<i>Parkinsonia florida</i>	2394706.767	12612959.22
ID_1970	Blue Palo Verde	<i>Parkinsonia florida</i>	2394843.504	12612868.63
ID_1972	Blue Palo Verde	<i>Parkinsonia florida</i>	2394932.562	12612829.97
ID_1979	Blue Palo Verde	<i>Parkinsonia florida</i>	2395188.376	12612501.78
ID_1980	Blue Palo Verde	<i>Parkinsonia florida</i>	2395289.278	12612518.83
ID_1983	Blue Palo Verde	<i>Parkinsonia florida</i>	2395262.867	12612278.61
ID_1984	Blue Palo Verde	<i>Parkinsonia florida</i>	2395213.698	12612169.21
ID_1985	Blue Palo Verde	<i>Parkinsonia florida</i>	2395287.595	12612156.26
ID_1986	Blue Palo Verde	<i>Parkinsonia florida</i>	2395301.705	12612117.2
ID_1987	Blue Palo Verde	<i>Parkinsonia florida</i>	2395176.653	12612127.6
ID_1989	Blue Palo Verde	<i>Parkinsonia florida</i>	2394890.415	12612198.37
ID_1991	Blue Palo Verde	<i>Parkinsonia florida</i>	2395539.783	12612114.83
ID_1993	Blue Palo Verde	<i>Parkinsonia florida</i>	2395583.159	12612025.87
ID_1994	Blue Palo Verde	<i>Parkinsonia florida</i>	2395643.779	12611982.53
ID_1995	Blue Palo Verde	<i>Parkinsonia florida</i>	2396150.474	12612132.4
ID_1996	Blue Palo Verde	<i>Parkinsonia florida</i>	2396374.988	12612224.03
ID_2000	Blue Palo Verde	<i>Parkinsonia florida</i>	2394560.304	12612334.17
ID_2003	Blue Palo Verde	<i>Parkinsonia florida</i>	2394194.22	12612040.31
ID_2005	Blue Palo Verde	<i>Parkinsonia florida</i>	2394758.505	12612001.97
ID_2006	Blue Palo Verde	<i>Parkinsonia florida</i>	2394181.637	12613020.23
ID_2007	Blue Palo Verde	<i>Parkinsonia florida</i>	2394188.963	12612992.8
ID_2009	Blue Palo Verde	<i>Parkinsonia florida</i>	2394218.35	12612817.62
ID_2010	Blue Palo Verde	<i>Parkinsonia florida</i>	2394178.677	12612810.2

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_2042	Blue Palo Verde	<i>Parkinsonia florida</i>	2392133.443	12610453.23
ID_2059	Blue Palo Verde	<i>Parkinsonia florida</i>	2395758.73	12613514.17
ID_2060	Blue Palo Verde	<i>Parkinsonia florida</i>	2395787.582	12613446.59
ID_2064	Blue Palo Verde	<i>Parkinsonia florida</i>	2396746.547	12613681.32
ID_2065	Blue Palo Verde	<i>Parkinsonia florida</i>	2397169.775	12613696.39
ID_2070	Blue Palo Verde	<i>Parkinsonia florida</i>	2398082.537	12614557.29
ID_2076	Blue Palo Verde	<i>Parkinsonia florida</i>	2398661.201	12614929.23
ID_2091	Blue Palo Verde	<i>Parkinsonia florida</i>	2392218.074	12615642.21
ID_210	Blue Palo Verde	<i>Parkinsonia florida</i>	2394575.016	12612330.25
ID_214	Blue Palo Verde	<i>Parkinsonia florida</i>	2394516.943	12612993.45
ID_215	Blue Palo Verde	<i>Parkinsonia florida</i>	2394498.609	12612995.45
ID_216	Blue Palo Verde	<i>Parkinsonia florida</i>	2394511.551	12613010.49
ID_217	Blue Palo Verde	<i>Parkinsonia florida</i>	2394504.613	12613011.65
ID_218	Blue Palo Verde	<i>Parkinsonia florida</i>	2394430.462	12613020.76
ID_219	Blue Palo Verde	<i>Parkinsonia florida</i>	2394403.537	12613035.55
ID_220	Blue Palo Verde	<i>Parkinsonia florida</i>	2394301.926	12613106.21
ID_221	Blue Palo Verde	<i>Parkinsonia florida</i>	2394289.531	12613129.68
ID_222	Blue Palo Verde	<i>Parkinsonia florida</i>	2394456.804	12613084.51
ID_247	Blue Palo Verde	<i>Parkinsonia florida</i>	2392363.416	12616474.7
ID_248	Blue Palo Verde	<i>Parkinsonia florida</i>	2392359.321	12616463.61
ID_249	Blue Palo Verde	<i>Parkinsonia florida</i>	2392158.796	12616140.25
ID_250	Blue Palo Verde	<i>Parkinsonia florida</i>	2392114.299	12616099.01
ID_251	Blue Palo Verde	<i>Parkinsonia florida</i>	2392108.984	12616087.66
ID_252	Blue Palo Verde	<i>Parkinsonia florida</i>	2392140.653	12616073.48
ID_253	Blue Palo Verde	<i>Parkinsonia florida</i>	2392185.545	12616081.15
ID_254	Blue Palo Verde	<i>Parkinsonia florida</i>	2392162.708	12616012.48
ID_255	Blue Palo Verde	<i>Parkinsonia florida</i>	2392177.853	12615951.34
ID_256	Blue Palo Verde	<i>Parkinsonia florida</i>	2392161.564	12615948.15
ID_257	Blue Palo Verde	<i>Parkinsonia florida</i>	2392091.868	12615972.59
ID_258	Blue Palo Verde	<i>Parkinsonia florida</i>	2392055.307	12615954.11
ID_259	Blue Palo Verde	<i>Parkinsonia florida</i>	2392007.119	12615944.3
ID_260	Blue Palo Verde	<i>Parkinsonia florida</i>	2391977.499	12615953.9

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_261	Blue Palo Verde	<i>Parkinsonia florida</i>	2391978.732	12615920.03
ID_262	Blue Palo Verde	<i>Parkinsonia florida</i>	2391993.909	12615910.73
ID_263	Blue Palo Verde	<i>Parkinsonia florida</i>	2392007.205	12615900.8
ID_264	Blue Palo Verde	<i>Parkinsonia florida</i>	2391926.409	12615995.49
ID_265	Blue Palo Verde	<i>Parkinsonia florida</i>	2391895.164	12615955.68
ID_266	Blue Palo Verde	<i>Parkinsonia florida</i>	2391879.904	12615935.6
ID_267	Blue Palo Verde	<i>Parkinsonia florida</i>	2391897.661	12615914.53
ID_268	Blue Palo Verde	<i>Parkinsonia florida</i>	2391909.882	12615913.13
ID_269	Blue Palo Verde	<i>Parkinsonia florida</i>	2391890.592	12615879.74
ID_270	Blue Palo Verde	<i>Parkinsonia florida</i>	2391913.245	12615853.62
ID_272	Blue Palo Verde	<i>Parkinsonia florida</i>	2391756.309	12615716.55
ID_273	Blue Palo Verde	<i>Parkinsonia florida</i>	2391751.436	12615740.95
ID_274	Blue Palo Verde	<i>Parkinsonia florida</i>	2391708.056	12615743.78
ID_275	Blue Palo Verde	<i>Parkinsonia florida</i>	2391689.699	12615755.52
ID_276	Blue Palo Verde	<i>Parkinsonia florida</i>	2391668.996	12615762.86
ID_277	Blue Palo Verde	<i>Parkinsonia florida</i>	2391642.986	12615705.87
ID_278	Blue Palo Verde	<i>Parkinsonia florida</i>	2391627.231	12615675.84
ID_279	Blue Palo Verde	<i>Parkinsonia florida</i>	2391544.849	12615746.25
ID_280	Blue Palo Verde	<i>Parkinsonia florida</i>	2391504.779	12615733.82
ID_281	Blue Palo Verde	<i>Parkinsonia florida</i>	2391477.561	12615769.18
ID_282	Blue Palo Verde	<i>Parkinsonia florida</i>	2391426.927	12615769.33
ID_283	Blue Palo Verde	<i>Parkinsonia florida</i>	2391399.488	12615820.55
ID_284	Blue Palo Verde	<i>Parkinsonia florida</i>	2391387.215	12615821.84
ID_285	Blue Palo Verde	<i>Parkinsonia florida</i>	2391388.539	12615805.73
ID_286	Blue Palo Verde	<i>Parkinsonia florida</i>	2391297.406	12615707.41
ID_287	Blue Palo Verde	<i>Parkinsonia florida</i>	2391150.547	12615631.31
ID_288	Blue Palo Verde	<i>Parkinsonia florida</i>	2391146.906	12615609.63
ID_289	Blue Palo Verde	<i>Parkinsonia florida</i>	2391137.252	12615604.05
ID_290	Blue Palo Verde	<i>Parkinsonia florida</i>	2391136.981	12615567.26
ID_291	Blue Palo Verde	<i>Parkinsonia florida</i>	2391145.163	12615553.76
ID_292	Blue Palo Verde	<i>Parkinsonia florida</i>	2391101.69	12615637.1
ID_293	Blue Palo Verde	<i>Parkinsonia florida</i>	2391103.112	12615624.08

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_294	Blue Palo Verde	<i>Parkinsonia florida</i>	2391094.724	12615602.17
ID_295	Blue Palo Verde	<i>Parkinsonia florida</i>	2391108.568	12615580.73
ID_296	Blue Palo Verde	<i>Parkinsonia florida</i>	2391116.4	12615533.71
ID_297	Blue Palo Verde	<i>Parkinsonia florida</i>	2391157.584	12615492.06
ID_298	Blue Palo Verde	<i>Parkinsonia florida</i>	2391134.75	12615454.98
ID_299	Blue Palo Verde	<i>Parkinsonia florida</i>	2391106.783	12615435.34
ID_300	Blue Palo Verde	<i>Parkinsonia florida</i>	2391077.619	12615395
ID_301	Blue Palo Verde	<i>Parkinsonia florida</i>	2391079.784	12615368.01
ID_302	Blue Palo Verde	<i>Parkinsonia florida</i>	2391014.7	12615310.32
ID_303	Blue Palo Verde	<i>Parkinsonia florida</i>	2390935.199	12615280.82
ID_304	Blue Palo Verde	<i>Parkinsonia florida</i>	2390757.943	12615347.51
ID_305	Blue Palo Verde	<i>Parkinsonia florida</i>	2390484.644	12615430.77
ID_306	Blue Palo Verde	<i>Parkinsonia florida</i>	2390508.441	12615454.1
ID_307	Blue Palo Verde	<i>Parkinsonia florida</i>	2390481.055	12615468.94
ID_308	Blue Palo Verde	<i>Parkinsonia florida</i>	2390299.3	12615379.63
ID_309	Blue Palo Verde	<i>Parkinsonia florida</i>	2390296.887	12615275.22
ID_310	Blue Palo Verde	<i>Parkinsonia florida</i>	2390237.671	12615227.07
ID_311	Blue Palo Verde	<i>Parkinsonia florida</i>	2390264.32	12615144.02
ID_312	Blue Palo Verde	<i>Parkinsonia florida</i>	2390263.453	12615003.8
ID_313	Blue Palo Verde	<i>Parkinsonia florida</i>	2390380.469	12614926.74
ID_314	Blue Palo Verde	<i>Parkinsonia florida</i>	2390372.711	12614901.54
ID_315	Blue Palo Verde	<i>Parkinsonia florida</i>	2390232.084	12614817.34
ID_316	Blue Palo Verde	<i>Parkinsonia florida</i>	2390216.803	12614810.55
ID_317	Blue Palo Verde	<i>Parkinsonia florida</i>	2390195.132	12614708.56
ID_318	Blue Palo Verde	<i>Parkinsonia florida</i>	2390332.34	12614554.41
ID_319	Blue Palo Verde	<i>Parkinsonia florida</i>	2391241.566	12614433.8
ID_320	Blue Palo Verde	<i>Parkinsonia florida</i>	2391158.438	12614484.96
ID_321	Blue Palo Verde	<i>Parkinsonia florida</i>	2391086.668	12614495.07
ID_322	Blue Palo Verde	<i>Parkinsonia florida</i>	2390951.904	12614544.55
ID_323	Blue Palo Verde	<i>Parkinsonia florida</i>	2391112.102	12614435.8
ID_324	Blue Palo Verde	<i>Parkinsonia florida</i>	2391989.593	12615099.76
ID_325	Blue Palo Verde	<i>Parkinsonia florida</i>	2392175.944	12615424.39

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_327	Blue Palo Verde	<i>Parkinsonia florida</i>	2392233.655	12615643.38
ID_328	Blue Palo Verde	<i>Parkinsonia florida</i>	2392224.64	12615647.58
ID_329	Blue Palo Verde	<i>Parkinsonia florida</i>	2392184.688	12615798.27
ID_330	Blue Palo Verde	<i>Parkinsonia florida</i>	2392191.452	12615823.08
ID_331	Blue Palo Verde	<i>Parkinsonia florida</i>	2392199.607	12615832.03
ID_332	Blue Palo Verde	<i>Parkinsonia florida</i>	2392215.318	12615845.53
ID_335	Blue Palo Verde	<i>Parkinsonia florida</i>	2392180.849	12615921.01
ID_353	Blue Palo Verde	<i>Parkinsonia florida</i>	2395251.823	12612141.08
ID_354	Blue Palo Verde	<i>Parkinsonia florida</i>	2395304.394	12612166.17
ID_380	Blue Palo Verde	<i>Parkinsonia florida</i>	2391758.65	12617029.59
ID_41	Blue Palo Verde	<i>Parkinsonia florida</i>	2386969.564	12615445.07
ID_42	Blue Palo Verde	<i>Parkinsonia florida</i>	2386986.784	12616124.91
ID_43	Blue Palo Verde	<i>Parkinsonia florida</i>	2386963.132	12616111.63
ID_44	Blue Palo Verde	<i>Parkinsonia florida</i>	2386897.111	12616037.41
ID_45	Blue Palo Verde	<i>Parkinsonia florida</i>	2386851.739	12616002.92
ID_46	Blue Palo Verde	<i>Parkinsonia florida</i>	2387183.911	12616018.94
ID_48	Blue Palo Verde	<i>Parkinsonia florida</i>	2387236.683	12615485.05
ID_49	Blue Palo Verde	<i>Parkinsonia florida</i>	2387271.047	12615581.71
ID_50	Blue Palo Verde	<i>Parkinsonia florida</i>	2387281.869	12615595.58
ID_52	Blue Palo Verde	<i>Parkinsonia florida</i>	2387393.212	12615601.86
ID_53	Blue Palo Verde	<i>Parkinsonia florida</i>	2387356.617	12615812.33
ID_537	Blue Palo Verde	<i>Parkinsonia florida</i>	2393211.028	12614112.18
ID_538	Blue Palo Verde	<i>Parkinsonia florida</i>	2393199.801	12614137.72
ID_539	Blue Palo Verde	<i>Parkinsonia florida</i>	2393194.881	12614154.54
ID_54	Blue Palo Verde	<i>Parkinsonia florida</i>	2387293.848	12615859.19
ID_541	Blue Palo Verde	<i>Parkinsonia florida</i>	2393196.721	12614330.67
ID_543	Blue Palo Verde	<i>Parkinsonia florida</i>	2393205.24	12614396.86
ID_544	Blue Palo Verde	<i>Parkinsonia florida</i>	2393223.89	12614492.98
ID_545	Blue Palo Verde	<i>Parkinsonia florida</i>	2393226.672	12614535.15
ID_546	Blue Palo Verde	<i>Parkinsonia florida</i>	2393217.825	12614558.39
ID_547	Blue Palo Verde	<i>Parkinsonia florida</i>	2393208.53	12614630.78
ID_548	Blue Palo Verde	<i>Parkinsonia florida</i>	2393201.205	12614675.94

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_549	Blue Palo Verde	<i>Parkinsonia florida</i>	2393193.062	12614704.62
ID_55	Blue Palo Verde	<i>Parkinsonia florida</i>	2387337.569	12615977.96
ID_550	Blue Palo Verde	<i>Parkinsonia florida</i>	2393189.586	12614716.15
ID_551	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.779	12614845.17
ID_552	Blue Palo Verde	<i>Parkinsonia florida</i>	2393144.814	12614871.09
ID_553	Blue Palo Verde	<i>Parkinsonia florida</i>	2393131.572	12614931.56
ID_554	Blue Palo Verde	<i>Parkinsonia florida</i>	2393090.28	12614941.8
ID_555	Blue Palo Verde	<i>Parkinsonia florida</i>	2393068.093	12614948.7
ID_556	Blue Palo Verde	<i>Parkinsonia florida</i>	2392934.979	12614909.2
ID_557	Blue Palo Verde	<i>Parkinsonia florida</i>	2392940.104	12614904.63
ID_558	Blue Palo Verde	<i>Parkinsonia florida</i>	2392983.075	12614891.61
ID_559	Blue Palo Verde	<i>Parkinsonia florida</i>	2392990.306	12614862.96
ID_56	Blue Palo Verde	<i>Parkinsonia florida</i>	2388778.493	12616497.47
ID_560	Blue Palo Verde	<i>Parkinsonia florida</i>	2392910.107	12614965.94
ID_561	Blue Palo Verde	<i>Parkinsonia florida</i>	2392888.707	12614981.25
ID_562	Blue Palo Verde	<i>Parkinsonia florida</i>	2392881.405	12614998.68
ID_563	Blue Palo Verde	<i>Parkinsonia florida</i>	2392912.912	12615082.77
ID_565	Blue Palo Verde	<i>Parkinsonia florida</i>	2392931.931	12615125.5
ID_566	Blue Palo Verde	<i>Parkinsonia florida</i>	2392908.187	12615127.24
ID_568	Blue Palo Verde	<i>Parkinsonia florida</i>	2392895.175	12615143.86
ID_569	Blue Palo Verde	<i>Parkinsonia florida</i>	2392911.103	12615185.65
ID_570	Blue Palo Verde	<i>Parkinsonia florida</i>	2392983.627	12615159.5
ID_571	Blue Palo Verde	<i>Parkinsonia florida</i>	2392956.889	12615192.51
ID_572	Blue Palo Verde	<i>Parkinsonia florida</i>	2392948.887	12615258.68
ID_573	Blue Palo Verde	<i>Parkinsonia florida</i>	2392886.005	12615260.99
ID_574	Blue Palo Verde	<i>Parkinsonia florida</i>	2392875.784	12615277.65
ID_575	Blue Palo Verde	<i>Parkinsonia florida</i>	2392899.166	12615363.91
ID_576	Blue Palo Verde	<i>Parkinsonia florida</i>	2392926.223	12615376.15
ID_577	Blue Palo Verde	<i>Parkinsonia florida</i>	2392902.984	12615392.14
ID_578	Blue Palo Verde	<i>Parkinsonia florida</i>	2392909.355	12615427.4
ID_579	Blue Palo Verde	<i>Parkinsonia florida</i>	2392897.599	12615441.45
ID_580	Blue Palo Verde	<i>Parkinsonia florida</i>	2392894.88	12615477.4

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_581	Blue Palo Verde	<i>Parkinsonia florida</i>	2392881.318	12615521.94
ID_582	Blue Palo Verde	<i>Parkinsonia florida</i>	2392828.348	12615541.4
ID_583	Blue Palo Verde	<i>Parkinsonia florida</i>	2393018.616	12615314.21
ID_584	Blue Palo Verde	<i>Parkinsonia florida</i>	2393004.387	12615290.42
ID_585	Blue Palo Verde	<i>Parkinsonia florida</i>	2392987.928	12615289.16
ID_586	Blue Palo Verde	<i>Parkinsonia florida</i>	2392957.332	12615292.18
ID_587	Blue Palo Verde	<i>Parkinsonia florida</i>	2392960.396	12615247.01
ID_59	Blue Palo Verde	<i>Parkinsonia florida</i>	2389072.456	12616590.43
ID_592	Blue Palo Verde	<i>Parkinsonia florida</i>	2393107.606	12614865.59
ID_593	Blue Palo Verde	<i>Parkinsonia florida</i>	2393243.257	12614772.05
ID_594	Blue Palo Verde	<i>Parkinsonia florida</i>	2393273.713	12614689.62
ID_595	Blue Palo Verde	<i>Parkinsonia florida</i>	2393249.699	12614646.07
ID_596	Blue Palo Verde	<i>Parkinsonia florida</i>	2393261.457	12614589
ID_597	Blue Palo Verde	<i>Parkinsonia florida</i>	2393255.048	12614558.67
ID_598	Blue Palo Verde	<i>Parkinsonia florida</i>	2393293.461	12614522.9
ID_599	Blue Palo Verde	<i>Parkinsonia florida</i>	2386096.089	12616482.39
ID_60	Blue Palo Verde	<i>Parkinsonia florida</i>	2389047.368	12616584.76
ID_600	Blue Palo Verde	<i>Parkinsonia florida</i>	2386033.689	12616458.03
ID_602	Blue Palo Verde	<i>Parkinsonia florida</i>	2386079.345	12616305.64
ID_605	Blue Palo Verde	<i>Parkinsonia florida</i>	2386080.239	12615852.78
ID_606	Blue Palo Verde	<i>Parkinsonia florida</i>	2386143.113	12615764.94
ID_608	Blue Palo Verde	<i>Parkinsonia florida</i>	2386159.463	12615607.92
ID_609	Blue Palo Verde	<i>Parkinsonia florida</i>	2386268.727	12616020.92
ID_610	Blue Palo Verde	<i>Parkinsonia florida</i>	2386327.025	12615871.24
ID_612	Blue Palo Verde	<i>Parkinsonia florida</i>	2386306.651	12615547.21
ID_613	Blue Palo Verde	<i>Parkinsonia florida</i>	2386479.845	12615928.21
ID_614	Blue Palo Verde	<i>Parkinsonia florida</i>	2386455.175	12615949.4
ID_615	Blue Palo Verde	<i>Parkinsonia florida</i>	2386487.464	12615969.13
ID_616	Blue Palo Verde	<i>Parkinsonia florida</i>	2386485.095	12616015.5
ID_617	Blue Palo Verde	<i>Parkinsonia florida</i>	2386497.529	12616038.68
ID_618	Blue Palo Verde	<i>Parkinsonia florida</i>	2386526.338	12616058.9
ID_619	Blue Palo Verde	<i>Parkinsonia florida</i>	2386520.055	12615958.6

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_665	Blue Palo Verde	<i>Parkinsonia florida</i>	2393180.664	12613857.94
ID_666	Blue Palo Verde	<i>Parkinsonia florida</i>	2393204.419	12613861.08
ID_667	Blue Palo Verde	<i>Parkinsonia florida</i>	2393208.087	12613923.14
ID_668	Blue Palo Verde	<i>Parkinsonia florida</i>	2393206.026	12613996.37
ID_669	Blue Palo Verde	<i>Parkinsonia florida</i>	2393216.022	12614005.73
ID_670	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.235	12614019.04
ID_671	Blue Palo Verde	<i>Parkinsonia florida</i>	2393209.756	12614042.72
ID_672	Blue Palo Verde	<i>Parkinsonia florida</i>	2393204.819	12614068.9
ID_673	Blue Palo Verde	<i>Parkinsonia florida</i>	2393201.537	12614089.93
ID_674	Blue Palo Verde	<i>Parkinsonia florida</i>	2393176.477	12614079.98
ID_675	Blue Palo Verde	<i>Parkinsonia florida</i>	2393168.534	12614175.75
ID_676	Blue Palo Verde	<i>Parkinsonia florida</i>	2393158.885	12614231.9
ID_677	Blue Palo Verde	<i>Parkinsonia florida</i>	2393139.641	12614325.25
ID_678	Blue Palo Verde	<i>Parkinsonia florida</i>	2393136.371	12614341.47
ID_679	Blue Palo Verde	<i>Parkinsonia florida</i>	2393169.44	12614390.28
ID_68	Blue Palo Verde	<i>Parkinsonia florida</i>	2393582.862	12615610.17
ID_680	Blue Palo Verde	<i>Parkinsonia florida</i>	2393182.603	12614395.58
ID_681	Blue Palo Verde	<i>Parkinsonia florida</i>	2393187.941	12614425.76
ID_682	Blue Palo Verde	<i>Parkinsonia florida</i>	2393178.846	12614433.43
ID_683	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.128	12614445.73
ID_684	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.963	12614463.05
ID_685	Blue Palo Verde	<i>Parkinsonia florida</i>	2393193.478	12614459.89
ID_686	Blue Palo Verde	<i>Parkinsonia florida</i>	2393193	12614471.18
ID_687	Blue Palo Verde	<i>Parkinsonia florida</i>	2393202.211	12614509.27
ID_688	Blue Palo Verde	<i>Parkinsonia florida</i>	2393196.079	12614536.43
ID_689	Blue Palo Verde	<i>Parkinsonia florida</i>	2393195.942	12614545.85
ID_690	Blue Palo Verde	<i>Parkinsonia florida</i>	2393185.62	12614583.01
ID_691	Blue Palo Verde	<i>Parkinsonia florida</i>	2393179.974	12614564.25
ID_692	Blue Palo Verde	<i>Parkinsonia florida</i>	2393169.869	12614540.04
ID_693	Blue Palo Verde	<i>Parkinsonia florida</i>	2393145.949	12614566.98
ID_694	Blue Palo Verde	<i>Parkinsonia florida</i>	2393143.378	12614577.52
ID_695	Blue Palo Verde	<i>Parkinsonia florida</i>	2393149.985	12614586.06

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_696	Blue Palo Verde	<i>Parkinsonia florida</i>	2393151.578	12614612.06
ID_697	Blue Palo Verde	<i>Parkinsonia florida</i>	2393118.697	12614670.14
ID_698	Blue Palo Verde	<i>Parkinsonia florida</i>	2393115.015	12614683.47
ID_699	Blue Palo Verde	<i>Parkinsonia florida</i>	2393112.891	12614699.32
ID_700	Blue Palo Verde	<i>Parkinsonia florida</i>	2393128.578	12614771.76
ID_701	Blue Palo Verde	<i>Parkinsonia florida</i>	2393085.385	12614814.24
ID_704	Blue Palo Verde	<i>Parkinsonia florida</i>	2393094.342	12614901.84
ID_706	Blue Palo Verde	<i>Parkinsonia florida</i>	2393057.779	12614763.6
ID_707	Blue Palo Verde	<i>Parkinsonia florida</i>	2393064.584	12614696.23
ID_708	Blue Palo Verde	<i>Parkinsonia florida</i>	2393074.207	12614649.96
ID_709	Blue Palo Verde	<i>Parkinsonia florida</i>	2393089.515	12614641.2
ID_71	Blue Palo Verde	<i>Parkinsonia florida</i>	2393604.521	12615504.03
ID_710	Blue Palo Verde	<i>Parkinsonia florida</i>	2393061.752	12614623.24
ID_711	Blue Palo Verde	<i>Parkinsonia florida</i>	2393057.946	12614631.51
ID_713	Blue Palo Verde	<i>Parkinsonia florida</i>	2393083.568	12614596.03
ID_714	Blue Palo Verde	<i>Parkinsonia florida</i>	2393105.51	12614548.3
ID_715	Blue Palo Verde	<i>Parkinsonia florida</i>	2393099.237	12614513.39
ID_717	Blue Palo Verde	<i>Parkinsonia florida</i>	2393084.589	12614178.39
ID_718	Blue Palo Verde	<i>Parkinsonia florida</i>	2393123.067	12613831.48
ID_719	Blue Palo Verde	<i>Parkinsonia florida</i>	2393122.689	12613769.06
ID_72	Blue Palo Verde	<i>Parkinsonia florida</i>	2393635.322	12615484.55
ID_720	Blue Palo Verde	<i>Parkinsonia florida</i>	2393133.019	12613738.88
ID_721	Blue Palo Verde	<i>Parkinsonia florida</i>	2392852.363	12614933.27
ID_722	Blue Palo Verde	<i>Parkinsonia florida</i>	2392823.005	12614920.37
ID_723	Blue Palo Verde	<i>Parkinsonia florida</i>	2392842.667	12614955.07
ID_724	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.048	12614982.76
ID_725	Blue Palo Verde	<i>Parkinsonia florida</i>	2392857.984	12614979.66
ID_726	Blue Palo Verde	<i>Parkinsonia florida</i>	2392818.071	12615031.89
ID_727	Blue Palo Verde	<i>Parkinsonia florida</i>	2392833.641	12615120.29
ID_728	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.699	12615162.92
ID_729	Blue Palo Verde	<i>Parkinsonia florida</i>	2392823.957	12615148.72
ID_73	Blue Palo Verde	<i>Parkinsonia florida</i>	2393639.623	12615474.7

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_730	Blue Palo Verde	<i>Parkinsonia florida</i>	2392838.154	12615210.36
ID_731	Blue Palo Verde	<i>Parkinsonia florida</i>	2392829.692	12615227.66
ID_732	Blue Palo Verde	<i>Parkinsonia florida</i>	2392840.293	12615241.62
ID_733	Blue Palo Verde	<i>Parkinsonia florida</i>	2392836.792	12615245.49
ID_734	Blue Palo Verde	<i>Parkinsonia florida</i>	2392791.032	12615172.76
ID_735	Blue Palo Verde	<i>Parkinsonia florida</i>	2392767.814	12615179.02
ID_736	Blue Palo Verde	<i>Parkinsonia florida</i>	2392742.95	12615248.14
ID_737	Blue Palo Verde	<i>Parkinsonia florida</i>	2392863.85	12615219.26
ID_738	Blue Palo Verde	<i>Parkinsonia florida</i>	2392845.015	12615259.52
ID_739	Blue Palo Verde	<i>Parkinsonia florida</i>	2392818.667	12615268.54
ID_74	Blue Palo Verde	<i>Parkinsonia florida</i>	2393651.987	12615467.37
ID_740	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.704	12615283.06
ID_741	Blue Palo Verde	<i>Parkinsonia florida</i>	2392824.228	12615298.02
ID_742	Blue Palo Verde	<i>Parkinsonia florida</i>	2392828.811	12615312.13
ID_743	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.703	12615306.79
ID_744	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.557	12615324.21
ID_745	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.792	12615331.11
ID_746	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.633	12615350.01
ID_747	Blue Palo Verde	<i>Parkinsonia florida</i>	2392831.71	12615374.54
ID_748	Blue Palo Verde	<i>Parkinsonia florida</i>	2392795.674	12615393.36
ID_749	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.944	12615413.07
ID_75	Blue Palo Verde	<i>Parkinsonia florida</i>	2393930.5	12614866.29
ID_750	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.18	12615418.98
ID_751	Blue Palo Verde	<i>Parkinsonia florida</i>	2392849.206	12615398.23
ID_752	Blue Palo Verde	<i>Parkinsonia florida</i>	2392853.574	12615419.87
ID_753	Blue Palo Verde	<i>Parkinsonia florida</i>	2392850.787	12615440.69
ID_754	Blue Palo Verde	<i>Parkinsonia florida</i>	2392850.058	12615451.49
ID_755	Blue Palo Verde	<i>Parkinsonia florida</i>	2392841.206	12615471.66
ID_757	Blue Palo Verde	<i>Parkinsonia florida</i>	2393035.419	12615024.87
ID_758	Blue Palo Verde	<i>Parkinsonia florida</i>	2393063.1	12614956.67
ID_759	Blue Palo Verde	<i>Parkinsonia florida</i>	2393122.625	12614932.87
ID_76	Blue Palo Verde	<i>Parkinsonia florida</i>	2394006.049	12614592.56

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_760	Blue Palo Verde	<i>Parkinsonia florida</i>	2393139.899	12614880.64
ID_761	Blue Palo Verde	<i>Parkinsonia florida</i>	2393335.768	12614788.83
ID_762	Blue Palo Verde	<i>Parkinsonia florida</i>	2393329.482	12614766.24
ID_763	Blue Palo Verde	<i>Parkinsonia florida</i>	2393346.65	12614749.51
ID_764	Blue Palo Verde	<i>Parkinsonia florida</i>	2393355.526	12614740.02
ID_765	Blue Palo Verde	<i>Parkinsonia florida</i>	2393408.816	12614690.99
ID_766	Blue Palo Verde	<i>Parkinsonia florida</i>	2393180.664	12613857.94
ID_767	Blue Palo Verde	<i>Parkinsonia florida</i>	2393204.419	12613861.08
ID_768	Blue Palo Verde	<i>Parkinsonia florida</i>	2393208.087	12613923.14
ID_769	Blue Palo Verde	<i>Parkinsonia florida</i>	2393206.026	12613996.37
ID_77	Blue Palo Verde	<i>Parkinsonia florida</i>	2394035.271	12614559.02
ID_770	Blue Palo Verde	<i>Parkinsonia florida</i>	2393216.022	12614005.73
ID_771	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.235	12614019.04
ID_772	Blue Palo Verde	<i>Parkinsonia florida</i>	2393209.756	12614042.72
ID_773	Blue Palo Verde	<i>Parkinsonia florida</i>	2393204.819	12614068.9
ID_774	Blue Palo Verde	<i>Parkinsonia florida</i>	2393201.537	12614089.93
ID_775	Blue Palo Verde	<i>Parkinsonia florida</i>	2393176.477	12614079.98
ID_776	Blue Palo Verde	<i>Parkinsonia florida</i>	2393168.534	12614175.75
ID_777	Blue Palo Verde	<i>Parkinsonia florida</i>	2393158.885	12614231.9
ID_778	Blue Palo Verde	<i>Parkinsonia florida</i>	2393139.641	12614325.25
ID_779	Blue Palo Verde	<i>Parkinsonia florida</i>	2393136.371	12614341.47
ID_78	Blue Palo Verde	<i>Parkinsonia florida</i>	2394066.501	12614428.69
ID_780	Blue Palo Verde	<i>Parkinsonia florida</i>	2393169.44	12614390.28
ID_781	Blue Palo Verde	<i>Parkinsonia florida</i>	2393182.603	12614395.58
ID_782	Blue Palo Verde	<i>Parkinsonia florida</i>	2393187.941	12614425.76
ID_783	Blue Palo Verde	<i>Parkinsonia florida</i>	2393178.846	12614433.43
ID_784	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.128	12614445.73
ID_785	Blue Palo Verde	<i>Parkinsonia florida</i>	2393198.963	12614463.05
ID_786	Blue Palo Verde	<i>Parkinsonia florida</i>	2393193.478	12614459.89
ID_787	Blue Palo Verde	<i>Parkinsonia florida</i>	2393193	12614471.18
ID_788	Blue Palo Verde	<i>Parkinsonia florida</i>	2393202.211	12614509.27
ID_789	Blue Palo Verde	<i>Parkinsonia florida</i>	2393196.079	12614536.43

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_79	Blue Palo Verde	<i>Parkinsonia florida</i>	2394075.329	12614400.28
ID_790	Blue Palo Verde	<i>Parkinsonia florida</i>	2393195.942	12614545.85
ID_791	Blue Palo Verde	<i>Parkinsonia florida</i>	2393185.62	12614583.01
ID_792	Blue Palo Verde	<i>Parkinsonia florida</i>	2393179.974	12614564.25
ID_793	Blue Palo Verde	<i>Parkinsonia florida</i>	2393169.869	12614540.04
ID_794	Blue Palo Verde	<i>Parkinsonia florida</i>	2393145.949	12614566.98
ID_795	Blue Palo Verde	<i>Parkinsonia florida</i>	2393143.378	12614577.52
ID_796	Blue Palo Verde	<i>Parkinsonia florida</i>	2393149.985	12614586.06
ID_797	Blue Palo Verde	<i>Parkinsonia florida</i>	2393151.578	12614612.06
ID_798	Blue Palo Verde	<i>Parkinsonia florida</i>	2393118.697	12614670.14
ID_799	Blue Palo Verde	<i>Parkinsonia florida</i>	2393115.015	12614683.47
ID_80	Blue Palo Verde	<i>Parkinsonia florida</i>	2394080.123	12614368.02
ID_800	Blue Palo Verde	<i>Parkinsonia florida</i>	2393112.891	12614699.32
ID_801	Blue Palo Verde	<i>Parkinsonia florida</i>	2393128.578	12614771.76
ID_802	Blue Palo Verde	<i>Parkinsonia florida</i>	2393085.385	12614814.24
ID_805	Blue Palo Verde	<i>Parkinsonia florida</i>	2393094.342	12614901.84
ID_807	Blue Palo Verde	<i>Parkinsonia florida</i>	2393057.779	12614763.6
ID_808	Blue Palo Verde	<i>Parkinsonia florida</i>	2393064.584	12614696.23
ID_809	Blue Palo Verde	<i>Parkinsonia florida</i>	2393074.207	12614649.96
ID_81	Blue Palo Verde	<i>Parkinsonia florida</i>	2394083.593	12614352.1
ID_810	Blue Palo Verde	<i>Parkinsonia florida</i>	2393089.515	12614641.2
ID_811	Blue Palo Verde	<i>Parkinsonia florida</i>	2393061.752	12614623.24
ID_812	Blue Palo Verde	<i>Parkinsonia florida</i>	2393057.946	12614631.51
ID_814	Blue Palo Verde	<i>Parkinsonia florida</i>	2393083.568	12614596.03
ID_815	Blue Palo Verde	<i>Parkinsonia florida</i>	2393105.51	12614548.3
ID_816	Blue Palo Verde	<i>Parkinsonia florida</i>	2393099.237	12614513.39
ID_818	Blue Palo Verde	<i>Parkinsonia florida</i>	2393084.589	12614178.39
ID_819	Blue Palo Verde	<i>Parkinsonia florida</i>	2393123.067	12613831.48
ID_82	Blue Palo Verde	<i>Parkinsonia florida</i>	2394081.611	12614328.72
ID_820	Blue Palo Verde	<i>Parkinsonia florida</i>	2393122.689	12613769.06
ID_821	Blue Palo Verde	<i>Parkinsonia florida</i>	2393133.019	12613738.88
ID_822	Blue Palo Verde	<i>Parkinsonia florida</i>	2392852.363	12614933.27

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_823	Blue Palo Verde	<i>Parkinsonia florida</i>	2392823.005	12614920.37
ID_824	Blue Palo Verde	<i>Parkinsonia florida</i>	2392842.667	12614955.07
ID_825	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.048	12614982.76
ID_826	Blue Palo Verde	<i>Parkinsonia florida</i>	2392857.984	12614979.66
ID_827	Blue Palo Verde	<i>Parkinsonia florida</i>	2392818.071	12615031.89
ID_828	Blue Palo Verde	<i>Parkinsonia florida</i>	2392833.641	12615120.29
ID_829	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.699	12615162.92
ID_83	Blue Palo Verde	<i>Parkinsonia florida</i>	2394089.506	12614308.89
ID_830	Blue Palo Verde	<i>Parkinsonia florida</i>	2392823.957	12615148.72
ID_831	Blue Palo Verde	<i>Parkinsonia florida</i>	2392838.154	12615210.36
ID_832	Blue Palo Verde	<i>Parkinsonia florida</i>	2392829.692	12615227.66
ID_833	Blue Palo Verde	<i>Parkinsonia florida</i>	2392840.293	12615241.62
ID_834	Blue Palo Verde	<i>Parkinsonia florida</i>	2392836.792	12615245.49
ID_835	Blue Palo Verde	<i>Parkinsonia florida</i>	2392791.032	12615172.76
ID_836	Blue Palo Verde	<i>Parkinsonia florida</i>	2392767.814	12615179.02
ID_837	Blue Palo Verde	<i>Parkinsonia florida</i>	2392742.95	12615248.14
ID_838	Blue Palo Verde	<i>Parkinsonia florida</i>	2392863.85	12615219.26
ID_839	Blue Palo Verde	<i>Parkinsonia florida</i>	2392845.015	12615259.52
ID_84	Blue Palo Verde	<i>Parkinsonia florida</i>	2394090.907	12614267.56
ID_840	Blue Palo Verde	<i>Parkinsonia florida</i>	2392818.667	12615268.54
ID_841	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.704	12615283.06
ID_842	Blue Palo Verde	<i>Parkinsonia florida</i>	2392824.228	12615298.02
ID_843	Blue Palo Verde	<i>Parkinsonia florida</i>	2392828.811	12615312.13
ID_844	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.703	12615306.79
ID_845	Blue Palo Verde	<i>Parkinsonia florida</i>	2392806.557	12615324.21
ID_846	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.792	12615331.11
ID_847	Blue Palo Verde	<i>Parkinsonia florida</i>	2392820.633	12615350.01
ID_848	Blue Palo Verde	<i>Parkinsonia florida</i>	2392831.71	12615374.54
ID_849	Blue Palo Verde	<i>Parkinsonia florida</i>	2392795.674	12615393.36
ID_85	Blue Palo Verde	<i>Parkinsonia florida</i>	2394090.524	12614252.09
ID_850	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.944	12615413.07
ID_851	Blue Palo Verde	<i>Parkinsonia florida</i>	2392817.18	12615418.98

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_852	Blue Palo Verde	<i>Parkinsonia florida</i>	2392849.206	12615398.23
ID_853	Blue Palo Verde	<i>Parkinsonia florida</i>	2392853.574	12615419.87
ID_854	Blue Palo Verde	<i>Parkinsonia florida</i>	2392850.787	12615440.69
ID_855	Blue Palo Verde	<i>Parkinsonia florida</i>	2392850.058	12615451.49
ID_856	Blue Palo Verde	<i>Parkinsonia florida</i>	2392841.206	12615471.66
ID_858	Blue Palo Verde	<i>Parkinsonia florida</i>	2393035.419	12615024.87
ID_859	Blue Palo Verde	<i>Parkinsonia florida</i>	2393063.1	12614956.67
ID_86	Blue Palo Verde	<i>Parkinsonia florida</i>	2394094.707	12614222.9
ID_860	Blue Palo Verde	<i>Parkinsonia florida</i>	2393122.625	12614932.87
ID_861	Blue Palo Verde	<i>Parkinsonia florida</i>	2393139.899	12614880.64
ID_862	Blue Palo Verde	<i>Parkinsonia florida</i>	2393335.768	12614788.83
ID_863	Blue Palo Verde	<i>Parkinsonia florida</i>	2393329.482	12614766.24
ID_864	Blue Palo Verde	<i>Parkinsonia florida</i>	2393346.65	12614749.51
ID_865	Blue Palo Verde	<i>Parkinsonia florida</i>	2393355.526	12614740.02
ID_866	Blue Palo Verde	<i>Parkinsonia florida</i>	2393408.816	12614690.99
ID_87	Blue Palo Verde	<i>Parkinsonia florida</i>	2394103.512	12614088.78
ID_88	Blue Palo Verde	<i>Parkinsonia florida</i>	2394175.763	12614419.99
ID_897	Blue Palo Verde	<i>Parkinsonia florida</i>	2387230.298	12615385.58
ID_898	Blue Palo Verde	<i>Parkinsonia florida</i>	2387234.039	12615409.25
ID_899	Blue Palo Verde	<i>Parkinsonia florida</i>	2387223.889	12615496.08
ID_900	Blue Palo Verde	<i>Parkinsonia florida</i>	2387227.254	12615637.25
ID_901	Blue Palo Verde	<i>Parkinsonia florida</i>	2387294.867	12615719.58
ID_902	Blue Palo Verde	<i>Parkinsonia florida</i>	2387307.996	12615687.12
ID_903	Blue Palo Verde	<i>Parkinsonia florida</i>	2387319.618	12615676.78
ID_904	Blue Palo Verde	<i>Parkinsonia florida</i>	2387317.662	12615703.04
ID_905	Blue Palo Verde	<i>Parkinsonia florida</i>	2387346.302	12615785.21
ID_906	Blue Palo Verde	<i>Parkinsonia florida</i>	2387342.124	12615795.01
ID_907	Blue Palo Verde	<i>Parkinsonia florida</i>	2387293.802	12615827.16
ID_908	Blue Palo Verde	<i>Parkinsonia florida</i>	2388355.729	12616326
ID_909	Blue Palo Verde	<i>Parkinsonia florida</i>	2388361.942	12616317.63
ID_910	Blue Palo Verde	<i>Parkinsonia florida</i>	2388369.051	12616318.67
ID_911	Blue Palo Verde	<i>Parkinsonia florida</i>	2388397.058	12616313.72

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_913	Blue Palo Verde	<i>Parkinsonia florida</i>	2388872.189	12616522.29
ID_914	Blue Palo Verde	<i>Parkinsonia florida</i>	2388884.635	12616521.48
ID_917	Blue Palo Verde	<i>Parkinsonia florida</i>	2388962.896	12616442.98
ID_920	Blue Palo Verde	<i>Parkinsonia florida</i>	2389007.78	12616472.09
ID_926	Blue Palo Verde	<i>Parkinsonia florida</i>	2390839.351	12616720.95
ID_927	Blue Palo Verde	<i>Parkinsonia florida</i>	2390861.263	12616722.03
ID_929	Blue Palo Verde	<i>Parkinsonia florida</i>	2390956.222	12616728.65
ID_930	Blue Palo Verde	<i>Parkinsonia florida</i>	2391021.787	12616732.91
ID_933	Blue Palo Verde	<i>Parkinsonia florida</i>	2391101.082	12616745.06
ID_944	Blue Palo Verde	<i>Parkinsonia florida</i>	2392975.207	12616403.85
ID_945	Blue Palo Verde	<i>Parkinsonia florida</i>	2393553.096	12615641.86
ID_946	Blue Palo Verde	<i>Parkinsonia florida</i>	2393570.247	12615634.63
ID_947	Blue Palo Verde	<i>Parkinsonia florida</i>	2393668.744	12615428.98
ID_948	Blue Palo Verde	<i>Parkinsonia florida</i>	2393653.913	12615457.54
ID_950	Blue Palo Verde	<i>Parkinsonia florida</i>	2393583.757	12615432.65
ID_951	Blue Palo Verde	<i>Parkinsonia florida</i>	2393592.424	12615449.05
ID_952	Blue Palo Verde	<i>Parkinsonia florida</i>	2393985.383	12614702.57
ID_953	Blue Palo Verde	<i>Parkinsonia florida</i>	2393983.453	12614691.26
ID_954	Blue Palo Verde	<i>Parkinsonia florida</i>	2393991.791	12614687.52
ID_955	Blue Palo Verde	<i>Parkinsonia florida</i>	2393991.221	12614685.59
ID_956	Blue Palo Verde	<i>Parkinsonia florida</i>	2393994.88	12614672.05
ID_957	Blue Palo Verde	<i>Parkinsonia florida</i>	2393982.985	12614658.16
ID_958	Blue Palo Verde	<i>Parkinsonia florida</i>	2393971.047	12614656.31
ID_959	Blue Palo Verde	<i>Parkinsonia florida</i>	2393968.344	12614644.4
ID_960	Blue Palo Verde	<i>Parkinsonia florida</i>	2393876.935	12614561.49
ID_961	Blue Palo Verde	<i>Parkinsonia florida</i>	2393876.189	12614504.61
ID_962	Blue Palo Verde	<i>Parkinsonia florida</i>	2393892.764	12614484.44
ID_963	Blue Palo Verde	<i>Parkinsonia florida</i>	2393910.164	12614585.48
ID_964	Blue Palo Verde	<i>Parkinsonia florida</i>	2393912.364	12614587.91
ID_977	Blue Palo Verde	<i>Parkinsonia florida</i>	2392172.018	12614307.35
ID_982	Blue Palo Verde	<i>Parkinsonia florida</i>	2386206.664	12616649.95
ID_983	Blue Palo Verde	<i>Parkinsonia florida</i>	2386224.222	12616717.59

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_2153	Blue Palo Verde	<i>Parkinsonia florida</i>	2396565.62	12612298.85
ID_2177	Blue Palo Verde	<i>Parkinsonia florida</i>	2396032.005	12612284.75
ID_2235	Blue Palo Verde	<i>Parkinsonia florida</i>	2396368.991	12612022.04
ID 1403	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395189.249	12611571.15
ID 1404	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395126.11	12611575.74
ID 1405	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395106.844	12611542.25
ID 1439	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394725.007	12612460.41
ID 1566	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395352.103	12611913.72
ID 1567	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395598.745	12612029.41
ID 1568	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395655.467	12611995.91
ID 1571	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396001.826	12611992.33
ID 1574	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396161.851	12612091.94
ID 1579	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396727.36	12612239.09
ID 1585	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396466.041	12612309.59
ID 1586	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396446.604	12612283
ID 1593	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396366.852	12612294.28
ID 1596	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396312.936	12612305.59
ID 1598	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396300.007	12612259.29
ID 1602	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396094.811	12612144.19
ID 1603	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396106.129	12612166.9
ID 1605	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396160.792	12612131.44
ID 1606	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396068.503	12612175.3
ID 1607	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396092.152	12612212.94
ID 1608	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396119.141	12612261.52
ID 1609	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396137.479	12612264.08
ID 1611	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396041.842	12612288.34
ID 1614	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395943.737	12612266.57
ID 1615	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395933.224	12612248.31
ID 1616	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395926.345	12612252.85
ID 1617	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395829.867	12612254.68
ID 1618	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395831.944	12612248.52
ID 1619	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395793.543	12612240.13

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID 1620	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395767.383	12612232.75
ID 1621	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395723.02	12612241.96
ID 1622	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395606.404	12612164.77
ID 1623	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395614.322	12612152.24
ID 1624	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395601.635	12612126.34
ID 1625	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395611.402	12612090.79
ID 1626	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395616.757	12612068.92
ID 1627	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395638.941	12612063.98
ID 1628	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395640.643	12612055.54
ID 1629	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395631.995	12612047.76
ID 1630	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395699.175	12612061.29
ID 1631	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395763.129	12612100.85
ID 1632	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395624.978	12612012.16
ID 1633	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395626.311	12612012.98
ID 1634	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395393.346	12612047.74
ID 1635	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395353.558	12611915.85
ID 1636	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395336.076	12611915.28
ID 1637	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395328.773	12611859.99
ID 1638	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395378.212	12611822.55
ID 1639	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395397.422	12611803.34
ID 1640	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395405.745	12611810.26
ID 1642	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395411.541	12611734.87
ID 1643	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395468.105	12611721.45
ID 1644	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395478.97	12611762.49
ID 1645	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395514.272	12611763.6
ID 1646	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395527.737	12611795.84
ID 1647	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395554.193	12611842.81
ID 1648	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395501.309	12611816.77
ID 1649	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395953.247	12611875.12
ID 1650	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395967.041	12611894.14
ID 1651	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395969.672	12612086.14
ID 1652	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395970.33	12612093.5

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID 1653	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395911.229	12612102.51
ID 1654	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395897.665	12612103.09
ID 1655	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395857.493	12612073.09
ID 1656	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395860.562	12612074.61
ID 1657	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395866.444	12612075.53
ID 1658	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395861.934	12612115.64
ID 1659	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395781.571	12612135.21
ID 1660	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395766.598	12612105.57
ID 1661	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395792.814	12612063.66
ID 1662	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395832.273	12612036.61
ID 1663	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395833.342	12612039.09
ID 1664	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395399.79	12612056.74
ID 336	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395190.199	12612036.98
ID 337	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395183.238	12612007.61
ID 338	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395172.272	12612007.28
ID 339	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395155.799	12611979.75
ID 340	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395113.262	12611811.84
ID 341	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395109.803	12611837.69
ID 342	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394993.965	12611811.01
ID 343	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394959.338	12611834.89
ID 344	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394985.551	12611845.03
ID 345	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394992.895	12611893.66
ID 346	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395008.65	12611911.48
ID 347	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394969.072	12611910.07
ID 348	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395006.321	12611939.93
ID 349	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395035.777	12611976.36
ID 350	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394902.818	12612213.05
ID 351	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395220.172	12612170.41
ID 352	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395226.12	12612162.36
ID 355	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395267.678	12612274.97
ID 356	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395201.632	12612501.56
ID 357	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395303.556	12612126.31

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID 358	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394965.257	12612723.26
ID 359	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394902.037	12612703.23
ID 96	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394531.043	12612621.87
ID 131	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2394152.869	12612030.84
ID 2120	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395746.126	12611734.91
ID 2121	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2395769.59	12611740.78
ID 2152	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396365.999	12611968.12
ID 2176	Hillside Palo Verde	<i>Parkinsonia microphylla</i>	2396014.425	12612307.97

2 Mesquites and Willow

ID_1012	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2388085.602	12615975.39
ID_1019	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2388197.586	12616214
ID_1022	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2388155.536	12616251.94
ID_1023	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2388131.077	12616231.18
ID_1024	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2388077.812	12616231.97
ID_1027	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2396504.45	12612755.2
ID_1038	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2396877.853	12613283.76
ID_1043	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2398708.019	12615370.81
ID_1044	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2398731.992	12615340.51
ID_1045	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2398705.02	12615314.79
ID_1046	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2398664.51	12615317.76
ID_1185	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392172.125	12615804.61
ID_1470	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2394969.629	12612811.14
ID_1473	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2394294.066	12614215.42
ID_1474	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2394515.495	12614770.85
ID_1476	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2393361.323	12616318.55
ID_1477	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2393101.023	12616420.51
ID_1478	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2393042.134	12616458.53
ID_1479	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392984.705	12616472.82
ID_1481	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392947.114	12616508.26
ID_1482	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392869.554	12616545.01
ID_1483	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392674.991	12616656.77
ID_1484	Honey Mesquite	<i>Prosopis glandulosa var. torreyana</i>	2392657.609	12616667.33

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1485	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392514.286	12616785.22
ID_1489	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392294.732	12617013.92
ID_1491	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392354.609	12616962.26
ID_1497	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392106.294	12617084.35
ID_1499	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392015.142	12617118.45
ID_1500	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391925.877	12617097.88
ID_1501	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391900.938	12617096.49
ID_1502	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391949.906	12617054.66
ID_1503	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391856.167	12617069.01
ID_1504	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391834.483	12617070.4
ID_1505	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391790.787	12617085.86
ID_1506	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391744.255	12617068.08
ID_1507	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391660.539	12617065.12
ID_1508	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391574.928	12617055.82
ID_1515	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390502.841	12616843.53
ID_1516	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390431.24	12616830.18
ID_1517	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390399.684	12616818.1
ID_1518	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390344.791	12616809.97
ID_1519	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389725.193	12616777.59
ID_1520	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389728.48	12616733.46
ID_1521	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2398481.282	12615512.5
ID_1522	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2398556.061	12615531.45
ID_1523	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2398651.942	12615335.9
ID_1524	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2396705.512	12614183.9
ID_154	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394578.798	12612772.59
ID_155	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394607.323	12612873.1
ID_1552	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394020.838	12611907.26
ID_1553	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393847.042	12611858.72
ID_1554	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393754.739	12611766.36
ID_1555	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393484.271	12611731.47
ID_161	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394383.78	12612949.92
ID_1612	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2395989.504	12612322.83

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_162	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394320.374	12612911.55
ID_163	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394234.258	12612955.92
ID_164	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394242.838	12612980.52
ID_165	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394201.471	12612840.53
ID_1803	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388147.817	12617355.11
ID_1813	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389736.07	12618134.97
ID_1816	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390265.377	12617985.33
ID_1829	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390208.023	12617066.39
ID_1831	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389487.362	12617163
ID_1832	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389286.618	12617235.34
ID_1833	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389072.514	12617273.94
ID_1834	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388817.98	12617351.15
ID_1835	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388730.223	12617345.95
ID_1836	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388614.187	12617466.07
ID_1837	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388565.177	12617654.65
ID_1838	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388482.615	12617735.19
ID_1847	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2387294.983	12615995.01
ID_1869	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388735.039	12616449.03
ID_1870	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388799.602	12616470.79
ID_1875	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389089.928	12616586.96
ID_1877	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389751.898	12616694.49
ID_1878	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390159.334	12616711.28
ID_1879	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390151.448	12616664.99
ID_1882	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390394.348	12616683.84
ID_1884	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390539.121	12616694.04
ID_1889	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391268.597	12616737.06
ID_189	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393057.343	12611922.4
ID_1890	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391309.117	12616794.89
ID_1891	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391368.374	12616793.87
ID_1893	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392693.163	12616526.55
ID_1904	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393357.175	12616225.95
ID_1906	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393354.54	12616323.24

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1908	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393592.341	12616050.06
ID_1909	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393600.172	12615667.8
ID_1922	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392331.09	12616627.63
ID_1923	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392366.162	12616675.15
ID_1964	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394523.432	12614797.29
ID_1965	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394577.94	12614689.93
ID_1974	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394571.806	12612744.12
ID_2001	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394654.568	12612382.21
ID_2004	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394006.245	12611895.25
ID_2008	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394217.987	12612885.88
ID_2013	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393557.613	12611553.57
ID_2014	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393466.791	12611725.02
ID_2019	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393052.718	12611843
ID_2020	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393056.803	12611913.03
ID_2028	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393239.074	12612758.41
ID_2036	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392791.426	12612654.11
ID_2037	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392924.233	12612648.61
ID_2046	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2395034.159	12615451.35
ID_2061	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2395724.984	12613613.51
ID_2066	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2397410.514	12613750.78
ID_2067	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2397819.513	12614216.16
ID_2072	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2398432.786	12615100.84
ID_2077	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2398800.238	12615636.45
ID_2079	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2396183.933	12613061.74
ID_208	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394671.649	12612390.67
ID_2082	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2396491.821	12612743.62
ID_2084	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2387300.872	12616108.79
ID_209	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394672.684	12612398.61
ID_211	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394415.553	12612141.33
ID_326	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392255.454	12615638.95
ID_333	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392220.488	12615864.23
ID_334	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392214.51	12615912.54

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_360	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2395124.887	12612118.19
ID_373	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392354.033	12617054.89
ID_374	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392333.609	12617069.94
ID_376	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392169.433	12617135.97
ID_377	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392136.965	12617146.37
ID_378	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392019.099	12617010.18
ID_379	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391820.397	12617033.1
ID_381	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390902.247	12616814.08
ID_382	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389933.575	12616701.28
ID_383	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389765.372	12616693.39
ID_384	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389621.909	12616685.16
ID_57	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388781.73	12616501
ID_58	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389101.383	12616597.3
ID_61	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2389017.91	12616526.36
ID_62	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390900.375	12616691.48
ID_63	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391080.532	12616716.1
ID_64	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392523.59	12616594.37
ID_65	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392543.606	12616586.08
ID_66	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392601.54	12616572.94
ID_67	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392617.331	12616562.32
ID_89	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394155.773	12614471.28
ID_90	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394127.016	12614489.23
ID_912	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388732.548	12616480.82
ID_915	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388901.253	12616513.09
ID_916	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388939.097	12616465.37
ID_918	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388972.696	12616484.34
ID_919	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2388983.727	12616477.36
ID_921	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390166.773	12616673.27
ID_922	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390389.465	12616688.3
ID_923	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390411.617	12616691.45
ID_924	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390547.285	12616702.99
ID_925	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390816.608	12616728.06

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_928	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2390916.516	12616726.1
ID_931	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391055.842	12616731.54
ID_932	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391072.408	12616735.51
ID_934	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391129.274	12616739.95
ID_935	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391351.959	12616748.96
ID_936	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2391386.557	12616750.76
ID_937	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392343.799	12616641.53
ID_938	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392359.907	12616636.24
ID_939	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392368.054	12616631.91
ID_940	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392713.259	12616539.9
ID_941	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392664.576	12616547.76
ID_942	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392638.727	12616558.27
ID_943	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2392811.552	12616492.95
ID_949	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2393654.381	12615440.03
ID_965	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394115.994	12614516.22
ID_966	Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>	2394049.43	12614652.74
ID_1071	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395499.575	12614408.76
ID_1072	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395571.738	12614311.15
ID_1073	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395582.4	12614299.21
ID_1074	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395632.094	12614259.87
ID_1075	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395655.837	12614226.93
ID_1076	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395668.717	12614221.51
ID_1077	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395681.167	12614204.19
ID_1078	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395767.779	12614167.48
ID_1079	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395804.859	12614112.76
ID_1080	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395880.062	12614091.08
ID_1081	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395870.6	12614062.47
ID_1082	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395938.054	12614069.46
ID_1083	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395951.103	12614076.2
ID_1084	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395959.841	12614094.24
ID_1085	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395549.475	12614408.46
ID_1086	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395617.927	12614434.48

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1087	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395653.247	12614390.73
ID_1088	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395656.408	12614408.62
ID_1089	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395672.021	12614440.79
ID_1090	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395710.521	12614453.39
ID_1091	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395735.657	12614426.36
ID_1092	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395771.237	12614431.65
ID_1093	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395816.24	12614403.17
ID_1094	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395853.264	12614399.02
ID_1095	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395867.122	12614427.06
ID_1096	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395852.304	12614465.35
ID_1097	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395198.604	12615117.29
ID_1098	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395245.905	12615106.34
ID_1099	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395272.33	12615083.08
ID_1100	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395297.594	12615071.23
ID_1101	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395308.757	12615039.4
ID_1102	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395316.327	12615002.21
ID_1103	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395361.503	12614962.86
ID_1104	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395383.961	12614931.39
ID_1105	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395387.173	12614885.26
ID_1106	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395334.819	12614855.41
ID_1107	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395292.735	12614830.26
ID_1108	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395274.247	12614904.02
ID_1109	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395270.785	12614952.13
ID_1110	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395220.284	12614972.86
ID_1111	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395196.613	12615025.7
ID_1112	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395179.687	12615043.78
ID_1113	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395172.929	12615085.49
ID_1468	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395055.861	12613283.19
ID_1486	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392448.415	12616911.18
ID_1487	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392446.7	12616944.12
ID_1488	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392414.925	12617024.84
ID_1490	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392325.114	12616973.33

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
ID_1492	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392395.306	12616948.77
ID_1493	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392404.118	12616933.25
ID_1494	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392367.979	12616911.3
ID_1495	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392276.357	12617008.26
ID_1496	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392291.72	12617036.51
ID_1498	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392056.776	12617115.69
ID_1509	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2391557.133	12617045.85
ID_223	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395642.327	12614240.35
ID_225	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395837.898	12614092.59
ID_226	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395836.594	12614135.82
ID_228	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395832.115	12614519.63
ID_229	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395883.181	12614489.74
ID_230	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395925.665	12614524.27
ID_231	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395887.704	12614628.38
ID_234	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2395070.572	12615443.93
ID_367	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2393646.475	12616035.72
ID_368	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392627.688	12616706.77
ID_369	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392585.522	12616777.29
ID_370	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392551.057	12616812.82
ID_371	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392451.348	12616896.57
ID_372	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392457.022	12616940.01
ID_375	Screw Bean Mesquite	<i>Prosopis pubescens</i>	2392274.891	12617095.19
ID_1801	Goodding's Willow	<i>Salix gooddngii</i>	2386755.933	12617249.15
ID_1807	Goodding's Willow	<i>Salix gooddngii</i>	2388562.347	12618329.15
ID_2025	Goodding's Willow	<i>Salix gooddngii</i>	2393132.884	12612472.04

3 Shrubs and herbs

	Cattle Saltbush	<i>Atriplex polycarpa</i>	2392014.351	12617015.7
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2387697.312	12616022.27
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2388585.175	12616389.82
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2389026.318	12616556.33
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2389326.297	12616660.93
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2390171.571	12616658.27

APPENDIX F
Locations for Culturally Significant Plants in the Project Area¹

Object ID	Common Name	Scientific Name	UTM Easting	UTM Northing
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2390363.317	12616641.6
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2390741.209	12616774.26
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2392677.659	12616539.3
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2394208.119	12612644.89
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2393636.162	12612712.51
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2393640.974	12612672.52
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2395838.642	12613559.84
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2396460.894	12613773.26
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2397082.293	12613926.03
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2396418.613	12612978.82
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2387734.51	12616145.24
	Cattle Saltbush	<i>Atriplex polycarpa</i>	2392191.632	12615655.32
	Desert Tobacco	<i>Nicotiana obtusifolia</i>	2396373.201	12612203.43
	Desert Tobacco	<i>Nicotiana obtusifolia</i>	2394961.418	12612714.53
	Desert Tobacco	<i>Nicotiana obtusifolia</i>	2394962.834	12612717.2
	Desert Tobacco	<i>Nicotiana obtusifolia</i>	2394961.718	12612771.58
	Desert Tobacco	<i>Nicotiana obtusifolia</i>	2396553.752	12612242.86
	Desert Lilly	<i>Hesperocallis undulata</i>	2398547.156	12614903.62
	Chia	<i>Salvia columbariae</i>	2393301.666	12612759.09
	Common Reed	<i>Phragmites australis</i>	2395981.846	12614109.75
	Common Reed	<i>Phragmites australis</i>	2394737.096	12613084.3
	Common Reed	<i>Phragmites australis</i>	2394956.778	12612833.93
	Common Reed	<i>Phragmites australis</i>	2391476.765	12617068.39
	Common Reed	<i>Phragmites australis</i>	2391363.357	12617256.91
	Common Reed	<i>Phragmites australis</i>	2394768.18	12614173.09
	Common Reed	<i>Phragmites australis</i>	2394993.332	12612937.22
	Common Reed	<i>Phragmites australis</i>	2396323.931	12614396.19
	Common Reed	<i>Phragmites australis</i>	2396063.325	12612914.62
	Common Reed	<i>Phragmites australis</i>	2391273.675	12617017.84

Note:¹UTM NAD 83 Zone 11S.