APPENDIX E

Biologic Resources

PLANTS OBSERVED OR EXPECTED TO BE PRESENT IN CLARK COUNTY WETLANDS PARK STUDY AREA UNDER EXISTING CONDITIONS

GRASSES

saltgrass (*Distichlis spicata*)
cattail (*Typha domingensis*)
river bulrush (*Scirpus fluviatilis*)
Olney's threesquare (*Scirpus americanus*)
alkali bulrush (*Scirpus maritimus*)
common reed (*Phragmites australis*)
bermuda grass (*Cynodon dactylon*)
rush (*Juncus* spp.)
sedge (*Carex* spp.)
alkali sacaton (*Sporobolus airoides*)
giant reed grass (*Arundo donax*)

FORBS

Russian thistle (*Salsola tragus*)
cocklebur (*Xanthium strumarium*)
seepweed (*Sueda moquinii*)
buckwheat (*Eriogonum deflexum*)
bottlebrush (*Eriogonum inflatum*)

SHRUBS

tamarisk (*Tamarix chinensis*)
jimsonweed (*Datura metaloides*)
big saltbush (*Atriplex lentiformis*)
saltbush (*Atriplex canescens*)
pickleweed (*Salicornia* sp.)
creosote bush (*Larrea tridentata*)
desert holly (*Atriplex hymenelytra*)
shadscale (*Atriplex confertifolia*)
cat claw acacia (*Acacia greggii*)
desert willow (*Chilopsis linearis*)
white burro–bush (*Hymenoclea salsola*)
torrey seablite (*Suaeda moquinii*)
iodine bush (*Allenrolfea occidentalis*)
desert saltbrush (*Atriplex polycarpa*)
mormon tea (*Ephedra torreyana*)
goldenweed (*Haplopapus* sp.)
mistletoe (*Phoradendron* sp.)

TREES

Fremont cottonwoods (*Populus fremontii*)
Goodding willow (*Salix gooddingii*)
honey mesquite (*Prosopis glandulosa*)
velvet ash (*Fraxinus velutina*)

PLANTS FOR USE IN WETLAND MITIGATION AND RIPARIAN ENHANCEMENT

Table 1. - Plants For Shallow Water Areas

Common Name	Scientific Name	Planting Stock	Remarks on Habitat
Alkali bulrush	*Scirpus maritimus*	tubers	Perennial plant 1 to 5 feet tall; found in shallow water or mud of streams, ditches, marshes lakes and ponds; especially abundant in brackish or saline situations.
Olney's threesquare	*Scirpus americanus*	rhizomes	Perennial plant 1 to 5 feet tall; found in marshes, seeps and springs, margins of lakes, wet alkali meadows, and saltgrass–greasewood communities.
Baltic rush	*Juncus balticus*	rhizomes	Perennial plant 1 to 3 feet tall; found in moist habitats, alkali flats on wet, alkali soil.
Toad rush	*Juncus bufonius*	seeds	Annual plant one to 12 inches tall; found on borders of ponds and streams on alkali soils.

Table 2. - Plants For Areas With Consistently Higher and Near Surface Ground Water

Common Name	Scientific Name	Planting Stock	Remarks
Goodding willow	*Salix gooddingii*	cuttings	A tree 6 to 70 feet tall; found in lower elevations near springs, streams and ditches.
Sandbar willow	*Salix exigua*	cuttings	A shrub 3 to 25 feet tall; found in ditches, meadows, seeps, and wet areas along streams.

Table 3. - Plants For Areas of Ground Water Within 4 Feet of the Surface

Common Name	Scientific Name	Planting Stock	Remarks
Fremont cottonwood	*Populus fremontii*	pole cuttings	A tree 30 to 80 feet tall; found in wet areas of springs, and streambanks.
Desert willow	*Chilopsis linearis*	long tube pack	A shrub 6 to 30 feet tall; found in dry washes and and along streambanks, often forming thickets along bottoms and banks.
Honey mesquite	*Prosopis glandulosa*	long tube pack	A tree growing to 20 feet tall; found along desert streams and dry flats in sandy soil and sand dunes.
Screwbean mesquite	*Prosopis pubescens*	long tube pack	A tree growing to 20 feet tall; found in in bottomlands, along streams, washes, and springs often in alkali soil.
Cat claw acacia	*Acacia gregii*	long tube pack	A tree growing to 20 feet tall; found on dry hillsides, washes, flats, and desert slopes at low elevations on rocky, sandy to clayey soils.
Alkali sacaton	*Sporobolus airoides*	seed	A warm season perennial bunchgrass that forms large clumps 18 inches to 6 feet tall; found in alkaline soils of desert flats, meadows, and sandy washes.

Reference: "A Flora of Nevada" by John T. Kartesz, 1988.

MAMMALS, REPTILES, AMPHIBIANS, AND FISH POTENTIALLY OCCURRING AT LAS VEGAS WASH, CLARK COUNTY, NEVADA

MAMMALS

Phyllostomidae: Phyllostomid Bats
California leaf-nosed bat (*Macrotus californicus*)

Vespertilionidae: Vespertilionid Bats
Pallid bat (*Antrozous pallidus*)
Big Brown Bat (*Eptesicus fuscus*)
Spotted Bat (*Euderma maculatum*)
Allen's (Mexican) Big-eared Bat (*Idionycteris phyllotis*)
Silver-haired bat (*Lasionycteris noctivagans*)
Hoary Bat (*Lasiurus cinereus*)
Western Red Bat (*Lasiurus borealis*)
California Myotis (*Myotis californicus*)
(Western) Small-footed Myotis (*Myotis ciliolabrum*)
Long-eared Myotis (*Myotis evotis*)
Fringed Myotis (*Myotis thysanodes*)
Southwestern Cave Myotis (*Myotis velifer brevis*)
Long-legged Myotis (*Myotis volans*)
Yuma Myotis (*Myotis yumanensis*)
Western pipistrelle (*Pipistrellus hesperus*)
Pale Townsend's Big-eared Bat (*Plecotus townsendii pallescens*)

Mollosidae: Mollosid Bats
Greater Western Mastiff Bat (*Eumops perotis californicus*)
Mexican free-tailed bat (*Tadarida mexicana*)
Brazilian free-tailed bat (*Tadarida brasiliensis*)
Big Free-tailed Bat (*Nyctinomops macrotis*)

Geomyidae: Pocket Gophers
Botta's pocket gopher (*Thomomys bottae*)

Heteromyidae: Pocket Mice and Kangaroo Rats
Little pocket mouse (*Perognathus longimembris*)
Long-tailed pocket mouse (*Perognathus formosus*)
Desert pocket mouse (*Perognathus penicillatus*)
Desert kangaroo rat (*Dipodmys deserti*)
Merriam's kangaroo rat (*Dipodomys merriami*)

Cricetidae: Rodents
Western harvest mouse (*Reithrodontomys megalotis*)
Southern grasshopper mouse (*Onychomys torridus*)
Deer mouse (*Peromyscus maniculatus*)
Brush mouse (*Peromyscus boylii*)
Cactus mouse (*Peromyscus eremicus*)
Desert woodrat (*Neotoma lepida*)

Sciuridae: Squirrels
White-tailed antelope squirrel (*Ammospermophilus leucurus*)
Round-tailed ground squirrel (*Spermophilus tereticaudus)*

Leporidae: Hares and rabbits
Desert cottontail (*Sylvilagus audubonii*)
Black-tailed jack rabbit (*Lepus californicus)*

Mustelidae: Skunks
Spotted skunk (*Spilogale gracilis*)

Canidae: Foxes and Coyotes
Gray fox (*Urocyon cineroargenteus*)
Coyote (*Canis latrans*)
Kit fox (*Vulpes macrotis*)

Procyonidae: Racoons and Ringtails
Ringtail cat (*Bassariscus astutus*)
Raccoon (*Procyon lotor*)

Felidae: Cats
Bobcat (*Felis rufus*)

REPTILES

Testudinidae: Land Tortoises
Desert tortoise (*Gopherus agassizii*)

Trionychidae: Softshell Turtles
Spiney softshell (*Trionyx spiniferus)*

Gekkonidae: Geckos
Western banded gecko (*Coleonyx variegatus*)

Iguanidae: Iguanids
Desert iguana (*Dipsosaurus dorsalis*)
Zebratail lizard (*Callisaurus draconoides*)
Brush lizard (*Urosaurus graciosus*)
Longnose leopard lizard (*Gambelia wislizenii*)
Side-blotched lizard (*Uta stansburiana*)

Teiidae: Whiptails
Western whiptail (*Cnemidophorus tigris*)

Colubridae: Colubrids
Western patchnose snake (*Salvadora hexalepis*)
Ground snake (*Sonora semiannulata*)
Coachwhip (*Masticophis flagellum*)??
Longnose snake (*Rhinocheilus lecontei*)
Gopher snake (*Pituophis melanoleucus*)
Spotted leafnose (*Phyllorhynchus decurtatus*)
Night snake (*Hypsiglena torquata*)

Viperidae: Vipers
Sidewinder (*Crotalus cerastes*)??
Mojave rattlesnake (*Crotalus scutulatus*)

AMPHIBIANS

Bufonidae: True toads
Red-spotted toad (*Bufo punctatus*)
Woodhouse toad (*Bufo woodhousei*)??

Ranidae: True frogs
Northern leopard frog (*Rana pipiens*)??
Bullfrog (*Rana catesbeiana*)??

FISH

Cyprinidae: Minnows
Carp (*Cyprinus carpio*)
Fathead minnow (*Pimephales promelas*)
Red shiner (*Notropis lutrensis*)

Poeciliidae: Livebearers
Mosquitofish *(Gambusia affinis)*

Ictaluridae: Catfish
Channel catfish *(Ictalurus punctatus)*

Centrarchidae: Sunfish
Bluegill *(Lepomis macrochirus)*

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RED ROCK AUDUBON SOCIETY
BIRD LIST OF THE LAS VEGAS WASH

Compiled by:
Carolyn Titus
(June 1997)

Las Vegas Wash is host to a large number of resident and migrant bird species. Quail, killdeer, roadrunners, and sparrows nest in the desert scrub. Many species of waterfowl nest, pass through, or winter on ponds. Migrating shorebirds, swallows, and warblers are found in the spring and fall.

Bird species which have been seen in the Wash in the area west of Lake Las Vegas are listed. Species known or presumed to breed in Las Vegas Wash are denoted by an asterisk. Designations for the status of each species are:

R = Resident
S = Summer visitant
W = Winter visitant
* = nesting species

M = Migrant
A = Accidental
I = Introduced

The abundance of each species is denoted by the following:

a = Abundant: always found in suitable habitat.
c = Common: usually found in suitable habitat.
u = Uncommon: occasionally found in suitable habitat.
r = Rare: infrequently found in suitable habitat.

Family/species		Occurrence	Abundance
Podicipedidae: Grebes			
Pied–billed grebe*	*(Podilymbus podiceps)*	R	c
Horned grebe	*(Podiceps auritus)*	W	r
Eared grebe*	*(Podiceps nigricollis)*	W	c
Western grebe	*(Aechmophorus occidentalis)*	W	r
Clark's grebe	*(Aechmophorus clarkii)*	W	r
Pelicanidae: Pelicans			
American white pelican	*(Pelecanus erythrorhynchos)*	M	r
Brown pelican	*(Pelecanus occidentalis)*	A	

Family/species		Occurrence	Abundance
Phalacrocoracidae: Cormorants			
Double–crested cormorant	*(Phalacrocorax auritus)*	R	u
Ardeidae: Bitterns and Herons			
American bittern	*(Botaurus lentiginosus)*	M	r
Least bittern	*(Ixobrychus exilis)*	M	r
Great blue heron	*(Ardea herodias)*	R	c
Great egret	*(Ardea albus)*	R	u
Snowy egret	*(Egretta thula)*	R	u
Little blue heron	*(Egretta caerulea)*	A	
Cattle egret	*(Bubulcus ibis)*	W	u
Green heron*	*(Butorides virescens)*	R	u
Black–crowned night–heron	*(Nycticorax nycticorax)*	M	u
Threskiornithidae: Ibises			
White–faced ibis	*(Plegadis chihi)*	M	c
Anatidae: Waterfowl			
Black–bellied whistling duck	*(Dendrocygna autumnalis)*	A	
Tundra swan	*(Cygnus columbianus)*	W	r
Greater white–fronted goose	*(Anser albifrons)*	W	r
Snow goose	*(Chen caerulescens)*	W	r
Canada goose	*(Branta canadensis)*	W	r
Wood duck	*(Aix sponsa)*	W	r
Green–winged teal	*(Anas crecca)*	W	c
Mallard*	*(Anas platyrhynchos)*	R	c
Northern pintail	*(Anas acuta)*	W	c
Blue–winged teal*	*(Anas discors)*	S	r
Cinnamon teal *	*(Anas cyanoptera)*	R	c
Northern shoveler	*(Anas clypeata)*	W	c
Gadwall	*(Anas strepera)*	W	c
Eurasian wigeon	*(Anas penelope)*	A	
American wigeon	*(Anas americana)*	W	c
Canvasback	*(Aythya valisineria)*	W	c
Redhead*	*(Aythya americana)*	W	c
Ring–necked duck	*(Aythya collaris)*	W	c
Greater scaup	*(Aythya marila)*	M	r
Lesser scaup	*(Aythya affinis)*	W	c
Oldsquaw	*(Clangula hyemalis)*	W	r
Black scoter	*(Melanitta nigra)*	A	
Surf scoter	*(Melanitta perspicillata)*	M	r
White–winged scoter	*(Melanitta fusca)*	M	r
Common goldeneye	*(Bucephala clangula)*	W	c
Bufflehead	*(Bucephala albeola)*	W	c
Hooded merganser	*(Lophodytes cucullatus)*	W	r
Common merganser	*(Mergus merganser)*	W	c
Red–breasted merganser	*(Mergus serrator)*	W	c
Ruddy duck*	*(Oxyura jamaicensis)*	R	c
Cathartidae: American Vultures			
Turkey vulture	*(Cathartes aura)*	S	c

Family/species		Occurrence	Abundance
Accipitridae: Hawks			
Osprey	*(Pandion haliaetus)*	M	r
Northern harrier	*(Circus cyaneus)*	R	c
Sharp–shinned hawk	*(Accipiter striatus)*	R	u
Red–tailed hawk	*(Buteo jamaicensis)*	R	c
Golden eagle	*(Aquila chrysaetos)*	W	r
Falconidae: Falcons			
American kestrel	*(Falco sparverius)*	R	c
Merlin	*(Falco columbarius)*	M	r
Peregrine falcon	*(Falco peregrinus)*	R	r
Prairie falcon	*(Falco mexicanus)*	R	c
Phasianidae: Quail			
Gambel's quail*	*(Callipepla gambelii)*	R	c
Rallidae: Rails, Gallinules, and Coots			
Virginia rail*	*(Rallus limicola)*	R	c
Sora	*(Porzana carolina)*	M	u
Common moorhen*	*(Gallinula chloropus)*	R	u
American coot*	*(Fulica americana)*	R	a
Gruidae: Cranes			
Sandhill crane	*(Grus canadensis)*	M	r
Charadriidae: Plovers			
Black–bellied plover	*(Pluvialis squatarola)*	M	u
American golden–plover	*(Pluvialis dominicus)*	M	r
Snowy plover	*(Charadrius alexandrinus)*	M	u
Semipalmated plover	*(Charadrius semipalmatus)*	M	u
Killdeer*	*(Charadrius vociferus)*	R	c
Recurvirostridae: Stilts and Avocets			
Black–necked stilt*	*(Himantopus mexicanus)*	S	c
American avocet*	*(Recurvirostra americana)*	M	c
Scolopacidae: Sandpipers and Phalaropes			
Greater yellowlegs	*(Tringa melanoleuca)*	M	c
Lesser yellowlegs	*(Tringa flavipes)*	M	u
Solitary sandpiper	*(Tringa solitaria)*	M	u
Willet	*(Catoptrophorus semipalmatus)*	M	u
Spotted sandpiper	*(Actitis macularia)*	S	c
Whimbrel	*(Numenius phaeopus)*	M	r
Long–billed curlew	*(Numenius americanus)*	M	u
Marbled godwit	*(Limosa fedoa)*	M	u
Red knot	*(Calidris canutus)*	M	r
Sanderling	*(Calidris alba)*	M	u
Semipalmated sandpiper	*(Calidris pusilla)*	M	r
Western sandpiper	*(Calidris mauri)*	M	c
Red-necked stint	*(Calidris ruficollis)*	A	
Least sandpiper	*(Calidris minutilla)*	M	c

Family/species		Occurrence	Abundance
Scolopacidae: Sandpipers and Phalaropes (con't)			
Baird's sandpiper	*(Calidris bairdii)*	M	u
Pectoral sandpiper	*(Calidris melanotos)*	M	u
Dunlin	*(Calidris alpina)*	M	u
Stilt sandpiper	*(Calidris himantopus)*	M	r
Short–billed dowitcher	*(Limnodromus griseus)*	M	r
Long–billed dowitcher	*(Limnodromus scolopaceus)*	M	c
Common snipe	*(Gallinago gallinago)*	M	c
Wilson's phalarope	*(Phalaropus tricolor)*	M	c
Red–necked phalarope	*(Phalaropus lobatus)*	M	c
Laridae: Gulls and Terns			
Franklin's gull	*(Larus pipixcan)*	M	u
Bonaparte's gull	*(Larus philadelphia)*	M	u
Ring–billed gull	*(Larus delawarensis)*	R	c
California gull	*(Larus californicus)*	R	c
Sabine's gull	*(Xema sabini)*	M	r
Caspian tern	*(Sterna caspia)*	M	u
Common tern	*(Sterna hirundo)*	M	r
Forster's tern	*(Sterna forsteri)*	M	c
Least tern	*(Sterna antillarum)*	A	
Black tern	*(Chilodonias niger)*	M	u
Columbidae: Doves			
Rock dove	*(Columba livia)*	I	c
White–winged dove	*(Zenaida asiatica)*	S	u
Mourning dove*	*(Zenaida macroura)*	R	c
Cuculidae: Roadrunners			
Greater roadrunner*	*(Geococcyx californianus)*	R	c
Strigiformes: Typical Owls			
Burrowing owl*	*(Speotyto cunicularia)*	S	u
Short-eared owl	*(Asio flammeus)*	W	r
Caprimulgidae: Nightjars			
Lesser nighthawk*	*(Chordeiles acutipennis)*	S	c
Apodidae: Swifts			
Vaux's swift	*(Chaetura vauxi)*	M	u
White–throated swift	*(Aeronautes saxatalis)*	S	c
Trochilidae: Hummingbirds			
Black–chinned hummingbird*	*(Arichilochus alexandri)*	S	u
Alcedinidae: Kingfishers			
Belted kingfisher	*(Ceryle alcyon)*	R	u
Picidae: Woodpeckers			
Northern flicker	*(Colaptes auratus)*	W	c

Family/species		Occurrence	Abundance
Tyrannidae: Tyrant Flycatchers			
Black phoebe*	*(Sayornis nigricans)*	R	u
Say's phoebe*	*(Sayornis saya)*	R	c
Vermilion flycatcher	*(Pyrocephalus rubinus)*	W	r
Ash–throated flycatcher*	*(Myiarchus cinerascens)*	S	u
Western kingbird*	*(Tyrannus verticalis)*	S	c
Thick-billed kingbird	*(Tyrannus crassirostris)*	A	c
Alaudidae: Larks			
Horned lark*	*(Eremophila alpestris)*	R	c
Hirundinidae: Swallows			
Purple martin	*(Progne subis)*	M	r
Tree swallow	*(Tachycineta bicolor)*	M	c
Violet–green swallow	*(Tachycineta thalassina)*	M	c
Northern rough–winged swallow*	*(Stelgidopteryx serripennis)*	S	c
Bank swallow	*(Riparia riparia)*	M	u
Cliff swallow*	*(Hirundo pyrrhonota)*	S	c
Barn swallow*	*(Hirundo rustica)*	S	c
Corvidae: Crows			
Common raven*	*(Corvus corax)*	R	c
Remizidae: Verdins			
Verdin*	*(Auriparus flaviceps)*	R	c
Aegithalidae: Bushtits			
Bushtit	*(Psaltriparus minimus)*	R	u
Troglodytidae: Wrens			
Rock wren*	*(Salpinctes obsoletus)*	R	c
Bewick's wren*	*(Thryomanes bewickii)*	R	u
Marsh wren*	*(Cistothorus palustris)*	R	c
Muscicapidae: Kinglets and Gnatcatchers			
Ruby–crowned kinglet	*(Regulus calendula)*	M	c
Blue–gray gnatcatcher*	*(Polioptila caerulea)*	R	c
Black–tailed gnatcatcher*	*(Polioptila melanura)*	R	u
Mimidae: Mockingbirds and Thrashers			
Northern mockingbird*	*(Mimus polyglottos)*	R	c
Crissal thrasher*	*(Toxostoma crissale)*	R	c
Turdidae: Thrushes, Solitaires and Bluebirds			
American robin	*(Turdus migratorius)*	W	u
Motacillidae: Pipits			
American pipit	*(Anthus rubescens)*	W	c
Ptilogonatidae: Silky Flycatchers			
Phainopepla*	*(Phainopepla nitens)*	R	c

cFamily/species		Occurrence	Abundance
Laniidae: Shrikes			
Loggerhead shrike	*(Lanius ludovicianus)*	W	c
Sturnidae: Starlings			
European starling*	*(Sturnus vulgaris)*	I	c
Emberizidae: Emberizids			
Orange–crowned warbler	*(Vermivora celata)*	R	u
Yellow warbler	*(Dendroica petechia)*	S	c
Yellow–rumped warbler	*(Dendroica coronata)*	M	c
Palm warbler	*(Dendroica palmarum)*	M	r
Common yellowthroat*	*(Geothlypis trichas)*	S	c
Wilson's warbler	*(Wilsonia pusilla)*	M	c
Blue grosbeak*	*(Guiraca caerulea)*	S	u
Abert's towhee*	*(Pipilo aberti)*	R	c
American tree sparrow	*(Spizella arborea)*	W	r
Brewer's sparrow	*(Spizella breweri)*	R	c
Savannah sparrow*	*(Passerculus sandwichensis)*	R	c
Song sparrow*	*(Melospiza melodia)*	R	c
Lincoln's sparrow	*(Melospiza lincolnii)*	M	u
White–crowned sparrow	*(Zonotrichia leucophrys)*	W	c
Red–winged blackbird*	*(Agelaius phoeniceus)*	R	a
Western meadowlark*	*(Sturnella neglecta)*	R	u
Yellow–headed blackbird*	*(Xanthocephalus xanthocephalus)*	R	u
Brewer's blackbird*	*(Euphagus cyanocephalus)*	R	a
Great–tailed grackle*	*(Quiscalus mexicanus)*	R	c
Brown–headed cowbird*	*(Molothrus ater)*	R	u
Fringillidae: Finches			
House finch*	*(Carpodacus mexicanus)*	R	a
Passeridae: Weavers			
House sparrow*	*(Passer domesticus)*	I	a