

APPENDIX N

*Wildlife Species Potentially Occurring
within Miramar Reservoir*

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Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
<i>Amphibians</i>															
California red-legged frog	<i>Rana draytonii</i>	FT/SSC/None/Covered	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur throughout due to being outside of accepted geographic range of species.
western spadefoot	<i>Spea hammondi</i>	None/SSC/None/None	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley-foothill woodlands, pastures, and other agriculture	X	M	L	X	M	M	L	L	H	X	X	High potential to occur within the 500-foot buffer of the LFG Pipeline due to the presence of vernal pools. Moderate potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, and North City Pump Station due to the presence of vernal pools. Low potential to occur within the 500-foot buffer of the NCWRP, North City Pipeline, and MBC. Not expected to occur in the areas that lack suitable habitat.
arroyo toad	<i>Anaxyrus californicus</i>	FE/SSC/None/Covered	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur throughout due to populations only occurring upstream of the reservoirs in San Diego.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
<i>Reptiles</i>															
western pond turtle	<i>Actinemys marmorata</i>	None/SSC/None/Covered	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	X	<u>MD</u>	X	X	X	X	<u>HD</u>	X	X	X	X	Observed within 500-foot buffer of Morena Pipelines south of State Route-52 (SR-52) and east of Genesee Ave in open water southern riparian forest. Observed within 500-foot buffer of the North City Pipeline in Evan's Pond south of Scripps Lake Drive and north, northeast, and east banks of the Miramar Reservoir in open water habitat. Not expected to occur in areas that lack suitable habitat or the impact footprint.
coast patch-nosed snake	<i>Salvadora hexalepis virgultea</i>	None/SSC/None/None	Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites	X	L	X	X	X	X	L	X	L	X	X	Low potential to occur in the 500-foot buffer of the Morena Pipelines, North City Pipeline, and LFG Pipeline due to limited habitat. Not expected to occur in areas that lack suitable habitat or in the impact footprint.
orangethroat whiptail	<i>Aspidoscelis hyperythra</i>	None/WL/None/Covered	Low-elevation coastal scrub, chaparral, and valley-foothill hardwood	L	M	L	X	M	M	M	M	H	L	X	High potential to occur within 500-foot buffer of the LFG Pipeline. Moderate potential to occur within the 500-foot buffer of Morena Pipelines, NCPWF, North City Pump Station, North City Pipeline, and MBC. Low potential to occur in the 500-foot buffer of the Morena Pump Station, NCWRP, and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
Coronado Island skink	<i>Plestiodon skiltonianus interparietalis</i>	None/WL/None/None	Woodlands, grasslands, pine forests, and chaparral; rocky areas near water	X	L	X	X	X	X	L	L	L	L	X	Low potential to occur in the 500-foot buffer of the Morena Pipelines, LFG Pipeline, and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat or in the impact footprint.
rosy boa	<i>Lichanura trivirgata</i>	None/None/None/None	Desert and chaparral habitats with rocky soils in coastal canyons and hillsides, desert canyons, washes, and mountains	X	L	X	X	L	X	X	X	M	X	X	Moderate potential to occur within 500-foot buffer of the LFG Pipeline. Low potential to occur within the 500-foot buffer of the Morena Pipelines, and NCPWF. Not expected to occur in areas that lack suitable habitat within the remaining components, which are outside the species' known geographic range. The site is outside of the species' known geographic range.
green turtle	<i>Chelonia mydas</i>	FT/None/None/None	Shallow waters of lagoons, bays, estuaries, mangroves, eelgrass, and seaweed beds	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in 500-foot survey buffer or impact footprints. No suitable habitat present.
San Diego ringneck snake	<i>Diadophis punctatus similis</i>	None/None/None/None	Moist habitats including wet meadows, rocky hillsides, gardens, farmland grassland, chaparral, mixed-conifer forest, and woodland habitats	X	M	X	X	L	X	L	L	L	X	X	Moderate potential to occur in the 500-foot buffer of the Morena Pipelines. Low potential to occur in the 500-foot buffer of the NCWRP, North City Pipeline, and LFG Pipeline due to limited habitat. Not expected to occur in areas that lack suitable habitat.

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silvery legless lizard	<i>Anniella pulchra pulchra</i>	None/SSC/None/None	Stabilized dunes, beaches, dry washes, chaparral, scrubs, and pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils	L	M	L	X	L	L	L	L	L	L	X	Moderate potential to occur in the 500-foot buffer of the Morena Pipelines. Low potential to occur in the 500-foot buffer of the Morena Pump Station, NCPWF, North City Pump Station, NCWRP, North City Pipeline, MBC, LFG Pipeline, and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat.
Blainville's horned lizard	<i>Phrynosoma blainvillii</i>	None/SSC/None/Covered	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley-foothill hardwood, conifer, riparian, pine-cypress, juniper, and annual grassland habitats	X	M	X	X	L	L	L	L	M	L	X	Moderate potential to occur in the 500-foot buffer of the Morena Pipelines and LFG Pipeline. Low potential to occur within the 500-foot buffer of the NCPWF, North City Pipeline, MBC, and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat.
red diamondback rattlesnake	<i>Crotalus ruber</i>	None/SSC/None/None	Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats	X	M	L	X	M	X	M	L	M	L	X	Moderate potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pipeline, and LFG Pipeline. Low potential to occur within the 500-foot buffer of the NCWRP, MBC, and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat.

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San Diegan tiger whiptail	<i>Aspidoscelis tigris stejnegeri</i>	None/SSC/None/None	Open areas in semiarid grasslands, scrublands, and woodlands	L	H	M	X	H	M	M	M	H	L	X	High potential to occur within 500-foot buffer of the Morena Pipelines, NCPWF, and LFG Pipeline. Moderate potential to occur within the 500-foot buffer of the NCWRP, North City Pipeline, North City Pipeline, and MBC. Low potential to occur within the 500-foot buffer of the Morena Pump Station and Miramar WTP due to limited habitat. Not expected to occur in areas that lack suitable habitat..
two-striped gartersnake	<i>Thamnophis hammondi</i>	None/SSC/None/None	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	X	M	X	X	X	X	M	X	X	L	X	Moderate potential to occur near termination point within the 500-foot buffer of the North City Pipeline at Miramar Reservoir, and Morena Pipelines. Low potential to occur within the 500-foot buffer of the Miramar WTP. Not expected to occur in areas that lack suitable habitat.
<i>Birds</i>															
burrowing owl	<i>Athene cunicularia</i> (burrow sites & some wintering sites)	BCC/SSC/None/Covered	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	X	L	L	X	L	X	L	L	L	X	X	Low potential to occur in the 500-foot buffer of the Morena Pipelines, NCWRP, NCPWF, North City Pipeline, MBC, and LFG Pipeline due to limited habitat. No BUOW or sign observed during 2016 focused surveys.

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California black rail	<i>Laterallus jamaicensis coturniculus</i>	BCC/ST, FP/None/None	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or impact footprints.
ferruginous hawk	<i>Buteo regalis</i> (wintering)	BCC/WL/None/Covered	Winters and forages in open, dry country, grasslands, open fields, agriculture	X	X	X	X	X	X	X	X	X	X	X	Not expected to winter within 500-foot buffer throughout study area.
grasshopper sparrow	<i>Ammodramus savannarum</i> (nesting)	None/SSC/None/None	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	X	X	X	X	L	X	L	L	M	X	X	Moderate potential to occur within 500-foot buffer of the LFG Pipeline. Low potential to nest within the 500-foot buffer of the NCPWF, North City Pipeline, and MBC. Species may use surrounding suitable habitat to forage. Not expected to nest in areas that lack suitable habitat or impact footprints.
northern harrier	<i>Circus cyaneus</i> (nesting)	None/SSC/None/Covered	Nests in open wetlands including marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes, but also in drier habitats such as grassland and grain fields; forages in variety of habitats, including grassland, scrubs, rangelands, emergent wetlands, and other open habitats	L	L	X	X	L	X	L	L	L	X	X	Low potential to nest within the 500-foot buffer of the Morena Pump Station, Morena Pipelines, NCPWF, North City Pipeline, MBC, and LFG Pipeline. Not expected to nest in areas that lack suitable habitat or impact footprints.
Swainson's hawk	<i>Buteo swainsoni</i> (nesting)	BCC/ST/None/Covered	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest within 500-foot buffer of the study area.

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tricolored blackbird	<i>Agelaius tricolor</i> (nesting colony)	BCC/SSC/None/Covered	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in 500-foot survey buffer or impact footprints due to lack of suitable habitat.
yellow warbler	<i>Setophaga petechia</i> (nesting)	BCC/SSC/None/None	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	M	H _D	X	X	X	X	L	X	H	X	X	Observed within 500-foot buffer of Morena Pipelines, <u>outside the impact footprint</u> . High potential to occur within the 500-foot buffer of the LFG Pipeline, <u>but outside the impact footprint</u> . Moderate potential to nest or forage within the 500-foot buffer of the Morena Pump Station adjacent to the San Diego River. Low potential to nest or forage within the 500-foot buffer of the North City Pipeline due to limited suitable habitat. Not expected to nest or forage in areas that lack suitable habitat or impact footprints.
American peregrine falcon	<i>Falco peregrinus anatum</i> (nesting)	FDL, BCC/SDL, FP/None/Covered	Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows, croplands, especially where waterfowl are present	X	L	X	X	X	X	X	X	X	X	X	Low potential to nest within the 500-foot buffer of the Morena Pipelines. Not expected to nest or forage in areas that lack suitable habitat or impact footprints.
bald eagle	<i>Haliaeetus leucocephalus</i> (nesting & wintering)	FDL, BCC/SE, FP/None/Covered	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest or winter in the 500-foot buffer or component impact footprints. No suitable habitat present.

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Cooper's hawk	<i>Accipiter cooperii</i> (nesting)	None/WL/ None/Covered	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	L	HD	X	X	X	X	M	X	M	X	L	Observed within the 500-foot buffer of Morena Pipelines, outside the impact footprint. Moderate potential to nest or forage within the 500-foot buffer of North City Pipeline. Moderate potential to occur within the 500-foot buffer of the and the LFG Pipeline. Low potential to nest within the 500-foot buffer of the Morena Pump Station and Dechlorination Facility. Not expected to nest or forage in areas that lack suitable habitat or impact footprints.
coastal cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i> (San Diego & Orange Counties only)	BCC/SSC/ None/Covered	Southern cactus scrub patches	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprints.
coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT/SSC/None/ Covered	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	X	HM	HD	L	M	M	M	HD	HD	L	X	Observed within the 500-foot buffer of Morena Pipelines , NCWRP, MBC, and LFG Pipeline. High Moderate potential to occur within the 500-foot buffer of Morena Pipelines , NCPWF, North City Pump Station, and North City Pipeline. Low potential to occur within the 500-foot buffer of the NCPWF Influent Pump Station and Miramar WTP. Not likely to occur in areas lacking suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
least Bell's vireo	<i>Vireo bellii pusillus</i> (nesting)	FE/SE/None/Covered	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	M	M	X	X	X	X	L	M	M	X	X	Moderate potential to nest or forage in suitable habitat within the 500-foot buffer of the Morena Pipelines and Morena Pump Station adjacent to the San Diego River and within the 500-foot buffer of the MBC in San Clemente Canyon and LFG Pipeline within Rose Creek. Low potential to nest within the 500-foot buffer of North City Pipeline. Not expected to nest or forage within the impact footprint due to lack of suitable riparian habitat.
southwestern willow flycatcher	<i>Empidonax traillii extimus</i> (nesting)	FE/SE/None/Covered	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	M	M	X	X	X	X	L	M	M	X	X	Moderate potential to nest or forage in suitable habitat within the 500-foot buffer of the Morena Pipelines and the Morena Pump Station adjacent to the San Diego River and within the 500-foot buffer of the MBC in San Clemente Canyon and LFG Pipeline within Rose Creek. Low potential to nest or forage in suitable habitat within the 500-foot buffer of the North City Pipeline. Not expected to nest or forage within the impact footprint due to lack of suitable riparian habitat.

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white-tailed kite	<i>Elanus leucurus</i> (nesting)	None/FP/None/None	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	L	M	L	X	H _D	X	L	M	M	X	X	Observed within the 500-foot buffer of the North City Pure Water Facility. Moderate potential to nest within 500-foot buffer of the Morena Pipelines, MBC, and LFG Pipeline. Low potential to nest within the 500-foot buffer of the Morena Pump Station, NCWRP, NCPWF, and North City Pipeline. Not expected to nest or forage in areas that lack suitable habitat or impact footprint.
yellow-breasted chat	<i>Icteria virens</i> (nesting)	None/SSC/None/None	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	M	M	X	X	X	X	L	M	H	X	X	High potential to occur within the 500-foot buffer of the LFG Pipeline. Moderate potential to nest within 500-foot buffer of the Morena Pipelines, MBC, and Morena Pump Station adjacent to the San Diego River. Low potential to nest within the 500-foot buffer of the North City Pipeline. Not expected to nest or forage in areas that lack suitable habitat.
golden eagle	<i>Aquila chrysaetos</i> (nesting & wintering)	BCC/FP, WL/None/Covered	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	X	X	X	X	X	X	L	X	L	X	X	Low potential to nest and winter within the 500-foot buffer of the North City Pipeline and LFG Pipeline. Not expected to areas lacking suitable habitat or the impact footprints.
prairie falcon	<i>Falco mexicanus</i> (nesting)	BCC/WL/None/None	Forages in grassland, savanna, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest or forage in the 500-foot survey buffer or impact footprint. No suitable nesting habitat present.

APPENDIX N (Continued)

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southern California rufous-crowned sparrow	<i>Aimophila ruficeps canescens</i>	None/WL/None/Covered	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	X	M	L	X	M	L	M	M	M	L	X	Moderate potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pipeline, MBC, and LFG Pipeline. Low potential to occur within 500-foot buffer of the NCWRP, North City Pump Station, and Miramar WTP. Not expected to occur in areas that lack suitable habitat.
Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>	None/SE/None/Covered	Nests and forages in coastal saltmarsh dominated by pickleweed (<i>Salicornia</i> spp.)	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprint. No suitable nesting habitat present.
Bell's sage sparrow	<i>Artemisiospiza belli belli</i>	BCC/WL/None/None	Nests and forages in coastal scrub and dry chaparral; typically in large, unfragmented patches dominated by chamise; nests in more dense patches but uses more open habitat in winter	X	L	X	X	L	X	L	L	L	X	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pipeline, and LFG Pipeline. Not expected to occur in areas lacking suitable habitat.
California brown pelican	<i>Pelecanus occidentalis californicus</i> (nesting colonies & communal roosts)	FDL/SDL, FP/None/Covered	Forages in warm coastal marine and estuarine environments; in California, nests on dry, rocky offshore islands	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprint. No suitable nesting habitat present.
California horned lark	<i>Eremophila alpestris actia</i>	None/WL/None/None	Nests and forages in grasslands, disturbed lands, agriculture, and beaches; nests in alpine fell fields of the Sierra Nevada	X	X	L	X	L	X	L	L	M	X	X	Moderate potential to forage within 500-foot buffer of the LFG Pipeline. Low potential to forage within the 500-foot buffer of the NCWRP, NCPWF, North City Pipeline, and MBC. Not expected to occur in areas lacking suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Foremain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
California least tern	<i>Sternula antillarum browni</i> (nesting colony)	FE/SE, FP/None/Covered	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
double-crested cormorant	<i>Phalacrocorax auritus</i> (nesting colony)	None/WL/None/None	Nests in riparian trees near ponds, lakes, artificial impoundments, slow-moving rivers, lagoons, estuaries, and open coastlines; winter habitat includes lakes, rivers, and coastal areas	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
elegant tern	<i>Thalasseus elegans</i> (nesting colony)	None/WL/None/Covered	Inshore coastal waters, bays, estuaries, and harbors; forages over open water	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
large-billed savannah sparrow	<i>Passerculus sandwichensis rostratus</i> (wintering)	None/SSC/None/Covered	Nests and forages in open, low saltmarsh vegetation, including low halophytic scrub	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
least bittern	<i>Ixobrychus exilis</i> (nesting)	BCC/SSC/None/None	Nests in freshwater and brackish marshes with dense, tall growth of aquatic and semi-aquatic vegetation	X	L	X	X	X	X	L	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
long-billed curlew	<i>Numenius americanus</i> (nesting)	BCC/WL/None/Covered	Nests in grazed, mixed grass, and short-grass prairies; localized nesting along the California coast; winters and forages in coastal estuaries, mudflats, open grassland, and cropland	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
mountain plover	<i>Charadrius montanus</i> (wintering)	BCC/SSC/None/Covered	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	X	X	X	X	X	X	X	X	X	X	X	Not expected to winter in the 500-foot buffer or component impact footprints due to poor habitat quality.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
osprey	<i>Pandion haliaetus</i> (nesting)	None/WL/None/None	Large waters (lakes, reservoirs, rivers) supporting fish; usually near forest habitats, but widely observed along the coast	X	X	X	X	X	X	M	X	X	M	X	Moderate potential to roost and forage at Miramar Reservoir within 500-foot buffer of the North City Pipeline and Miramar WTP. Not expected to nest in the 500-foot buffer or component impact footprints.
western snowy plover	<i>Charadrius alexandrinus nivosus</i> (nesting)	FT, BCC/SSC/None/Covered	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i> (nesting)	FT, BCC/SE/None/None	Nests in dense, wide riparian woodlands and forest with well-developed understories	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
white-faced ibis	<i>Plegadis chihi</i> (nesting colony)	None/WL/None/Covered	Nests in shallow marshes with areas of emergent vegetation; winter foraging in shallow lacustrine waters, flooded agricultural fields, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.
Canada goose	<i>Branta canadensis</i>	None/None/None/Covered	Lakes, rivers, ponds, and other bodies of water; yards, park lawns, and agricultural fields	X	X	X	X	X	X	L	X	L	H	X	Low potential to occur in the 500-foot buffer or component impact footprints near the Miramar Reservoir. No suitable habitat present.
reddish egret	<i>Egretta rufescens</i>	None/None/None/Covered	Freshwater marsh with emergent vegetation; in the Central Valley primarily nests and forages in rice fields and other flooded agricultural fields with weeds and other residual aquatic vegetation	X	X	X	X	X	X	X	X	X	X	X	Not expected to nest in the 500-foot buffer or component impact footprints. No suitable nesting habitat present.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
western bluebird	<i>Sialia mexicana</i>	None/None/None/Covered	Nests in old-growth red fir, mixed-conifer, and lodgepole pine habitats near wet meadows used for foraging	L	M	L	X	L	L	L	L	M	L	X	Moderate potential to occur within 500-foot buffer of the Morena Pipelines and LFG Pipeline. Low potential to occur within 500-foot buffer of the Morena Pump Station, NCWRP, NCPWF, North City Pump Station, North City Pipeline, MBC, and Miramar WTP. Not expected to nest or forage in areas that lack suitable nesting habitat present.
Ridgway's rail	<i>Rallus obsoletus levipes</i>	FE/SE, FP/None/Covered	Coastal wetlands, brackish areas, coastal saline emergent wetlands	L	X	X	X	X	X	X	X	X	X	X	Low potential to occur within 500-foot buffer of the Morena Pump Station. Not expected to nest or forage in areas that lack suitable nesting habitat present.
Mammals															
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	FE/SSC/None/None	Fine-grained sandy substrates in open coastal strand, coastal dunes, and river alluvium	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprints due to lack of suitable habitat.
San Diego desert woodrat	<i>Neotoma lepida intermedia</i>	None/SSC/None/None	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprints due to lack of suitable habitat.
big free-tailed bat	<i>Nyctinomops macrotis</i>	None/SSC/WBWG:MH/None	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	X	X	X	X	X	X	X	X	X	X	X	Not expected to roost or forage within the 500-foot buffer or component impact footprints due to limited suitable habitat present.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Foremain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
long-eared myotis	<i>Myotis evotis</i>	None/None/WBVG:M/None	Nearly all brush, woodland, and forest habitats from sea level to 9,000 feet above mean sea level, but prefers coniferous habitats; forages along habitat edges, in open habitats, and over water; roosts in buildings, crevices, under bark, and snags; uses caves as night roosts	X	L	X	X	X	X	L	X	X	X	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, and North City Pipeline due to limited habitat. Not expected to occur in areas that lack suitable habitat or in the impact footprint.
pallid bat	<i>Antrozous pallidus</i>	None/SSC/WBVG:H/None	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	X	M	X	X	M	X	M	X	M	X	X	Moderate potential to forage within in the 500-foot buffer of the Morena Pipelines, NCPWF, and LFG Pipeline. Not expected to occur in areas lacking suitable habitat and impact footprints.
western small-footed myotis	<i>Myotis ciliolabrum</i>	None/None/WBVG:M/None	Arid woodlands and shrublands, but near water; roosts in caves, crevices, mines, abandoned buildings	X	L	X	X	X	X	L	X	X	X	X	Low potential to forage within the 500-foot buffer of the Morena Pipelines, and NCPWF. Not expected to occur in areas lacking suitable habitat and component impact footprints.
Yuma myotis	<i>Myotis yumanensis</i>	None/None/WBVG:LM/None	Riparian, arid scrublands and deserts, and forests associated with water (streams, rivers, tinajas); roosts in bridges, buildings, cliff crevices, caves, mines, and trees	M	M	X	X	X	X	M	X	X	X	X	Moderate potential to forage within the 500-foot buffer of the Morena Pump Station, Morena Pipelines, and NCPWF. Not expected to occur in areas lacking suitable habitat and component impact footprints.
American badger	<i>Taxidea taxus</i>	None/SSC/None/Covered	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	X	X	X	X	X	X	X	L	L	X	X	Low potential to forage within the 500-foot buffer of the LFG Pipeline. Not expected to occur in areas lacking suitable habitat and component impact footprints.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
Dulzura pocket mouse	<i>Chaetodipus californicus femoralis</i>	None/SSC/None/None	Open habitat, coastal scrub, chaparral, oak woodland, chamise chaparral, mixed-conifer habitats; disturbance specialist; 0 to 3,000 feet above mean sea level	X	L	L	X	L	L	L	L	L	L	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCWRP, NCPWF, North City Pump Station, North City Pipeline, MBC, LFG Pipeline, and Miramar WTP. Not expected to occur in areas lacking suitable habitat.
hoary bat	<i>Lasiurus cinereus</i>	None/None/WBWG:M/None	Forest, woodland riparian, and wetland habitats; also juniper scrub, riparian forest, and desert scrub in arid areas; roosts in tree foliage and sometimes cavities, such as woodpecker holes	L	L	X	X	X	X	L	X	X	X	X	Low potential to occur within the 500-foot buffer of the Morena Pump Station, Morena Pipelines, and North City Pipeline. There is limited suitable habitat present.
Mexican long-tongued bat	<i>Choeronycteris mexicana</i>	None/SSC/WBWG:H/None	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon-juniper woodland; roosts in caves, mines, and buildings	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact footprints due to lack of suitable habitat. No suitable habitat present.
northwestern San Diego pocket mouse	<i>Chaetodipus fallax fallax</i>	None/SSC/None/None	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon-juniper, and annual grassland	X	L	X	X	L	L	L	L	L	L	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pump Station, North City Pipeline, MBC, LFG Pipeline, and Miramar WTP. Not expected to occur in areas lacking suitable habitat.
pocketed free-tailed bat	<i>Nyctinomops femorosaccus</i>	None/SSC/WBWG:M/None	Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with dropoffs, caverns, and buildings	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact footprints due to lack of suitable habitat. No suitable habitat present.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	None/SSC/None/None	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	X	L	L	X	L	L	L	L	M	X	X	Moderate potential to occur within 500-foot buffer of the LFG Pipeline. Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCWRP, NCPWF, North City Pump Station, North City Pipeline, and MBC. Not expected to occur in areas lacking suitable habitat.
silver-haired bat	<i>Lasionycteris noctivagans</i>	None/None/WBVG:M/None	Old-growth forest, maternity roosts in trees (primarily woodpecker hollows), large-diameter snags 50 feet aboveground; hibernates in hollow trees, under sloughing bark, in rock crevices, and occasionally in buildings, mines, and caves; forages in or near coniferous or mixed deciduous forest, often following stream or river drainages	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur due to lack of suitable habitat.
spotted bat	<i>Euderma maculatum</i>	None/SSC/WBVG:H/None	Foothills, mountains, desert regions of southern California, including arid deserts, grasslands, and mixed-conifer forests; roosts in rock crevices and cliffs; feeds over water and along washes	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur due to lack of suitable habitat.
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	FE/ST/None/None	Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover, or in disturbed areas	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur. This study area is outside of this species' geographic range.
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	None/SC, SSC/WBVG:H/None	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels	L	L	X	X	X	X	L	X	X	X	X	Low potential to occur within the 500 foot buffer of the Morena Pump Station, Morena Pipelines, and North City Pipeline. Not expected to occur in areas lacking suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
western mastiff bat	<i>Eumops perotis californicus</i>	None/SSC/WBWG:H/None	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	X	L	X	X	L	X	L	L	L	L	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pipeline, LFG Pipeline, and Miramar WTP. Not expected to occur in areas lacking suitable habitat.
western red bat	<i>Lasiurus blossevillii</i>	None/SSC/WBWG:H/None	Forest, woodland, riparian, mesquite bosque, and orchards, including fig, apricot, peach, pear, almond, walnut, and orange; roosts in tree canopy	L	L	X	X	X	X	L	X	X	X	X	Low potential to occur within the 500-foot buffer of the Morena Pump Station, Morena Pipelines, and North City Pipeline. There is limited suitable habitat present.
western yellow bat	<i>Lasiurus xanthinus</i>	None/SSC/WBWG:H/None	Valley-foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur in the 500-foot buffer or component impact footprints due to lack of suitable habitat.
cougar	<i>Puma concolor</i>	None/None/None/Covered	Scrubs, chaparral, riparian, woodland, and forest; rests in rocky areas and on cliffs and ledges that provide cover; most abundant in riparian areas and brushy stages of most habitats throughout California, except deserts	X	X	X	X	X	X	X	L	L	X	X	Low potential to occur within the 500-foot area buffer of the MBC, and LFG Pipeline. Not expected to occur in areas lacking suitable habitat.
mule deer	<i>Odocoileus hemionus</i>	None/None/None/Covered	Coastal sage scrub, chaparral, riparian, woodlands, and forest; often browses in open area adjacent to cover throughout California, except deserts and intensely farmed areas	L	L	L	X	L	X	M	M	M	L	X	Moderate potential to occur within the 500-foot buffer for the North City Pipeline, MBC, and LFG Pipeline. Low potential to occur within the 500-foot buffer of the Morena Pump Station, Morena Pipelines, NCWRP, NCPWF, and Miramar WTP. Not expected to occur in areas with lack of suitable habitat or in component impact footprints.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
<i>Invertebrates</i>															
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	FE/None/None/Covered	Vernal pools, non-vegetated ephemeral pools	X	X	L	X	L	L	X	X	X	X	X	Low potential to occur in vernal pools observed within 500-foot buffer of the NCWRP, NCPWF, and North City Pump Station. Not expected to occur within 500-foot buffer or component impact areas. This species would have been observed during focused survey.
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	FE/None/None/Covered	Vernal pools, non-vegetated ephemeral pools	X	X	L	X	X	L	D	X	D	X	X	Observed within the 500-foot buffer of or adjacent to two project components containing vernal pools: the North City Pipeline, and LFG Pipeline. Focused surveys for this species at the NCPWF in 2015/2016 and 2017 were negative. Low potential to occur in vernal pools observed within 500-foot buffer of the NCWRP, and North City Pump Station. Not expected to occur within 500-foot buffer or component impact areas. This species would have been observed during focused survey.
obscure bumble bee	<i>Bombus caliginosus</i>	None/None/SS/None	Relatively humid or foggy areas of the Pacific coast south to central California. Food plants include Baccharis, Cirsium, Grindelia, Phacelia, Arctostaphylos, Eriodictyon, Ceanothus, Adenostoma, and Mimulus	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within 500-foot buffer or component impact areas due to lack of suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
Crotch bumble bee	<i>Bombus crotchii</i>	None/None/SS/None	Open scrub habitats and grassland in coastal California east to the Sierra-Cascade crest and south into Mexico. Food plants include Asclepias, Chaenactis, Lupinus, Medicago, Phacelia, and Salvia	X	L	L	X	L	X	L	L	L	L	X	Low potential to occur within the 500-foot buffer of the Morena Pipelines, NCPWF, North City Pipeline, LFG Pipeline, and Miramar WTP. Not expected to occur in areas lacking suitable habitat and component impact footprints.
globose dune beetle	<i>Coelus globosus</i>	None/None/SS/None	Inhabitant of coastal sand dune habitat; erratically distributed from Ten Mile Creek in Mendocino County south to Ensenada, Mexico	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
mesa shoulderband	<i>Helminthoglypta coelata</i>	None/None/SS/None	Known only from a few locations in coastal San Diego County	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
mimic tryonia (=California brackishwater snail)	<i>Tryonia imitator</i>	None/None/SS/None	Inhabits coastal lagoons, estuaries, and saltmarshes, from Sonoma County south to San Diego County	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
sandy beach tiger beetle	<i>Cicindela hirticollis gravida</i>	None/None/SS/None	Inhabits areas adjacent to non-brackish water along the coast of California from San Francisco Bay to northern Mexico	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
senile tiger beetle	<i>Cicindela senilis frosti</i>	None/None/SS/None	Inhabits marine shoreline, from Central California coast south to saltmarshes of San Diego; also found at Lake Elsinore	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
Thorne's hairstreak	<i>Callophrys thornei</i>	None/None/SS/Covered	Interior cypress woodland dominated by host plant <i>Hesperocyparis forbesii</i> (Tecate cypress)	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
western beach tiger beetle	<i>Cicindela latesignata latesignata</i>	None/None/SS/None	Mudflats and beaches in coastal Southern California	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
western tidal-flat tiger beetle	<i>Cicindela gabbii</i>	None/None/SS/None	Inhabits estuaries and mudflats along the coast of Southern California	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
California mellitid bee	<i>Melitta californica</i>	None/None/SS/None	Desert regions of southwestern Arizona, southeastern California, and Baja California, Mexico; also collected from Torrey Pines, San Diego County	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within the 500-foot buffer or component impact areas due to lack of suitable habitat.
Hermes copper	<i>Lycaena hermes</i>	FC/None/None/None	Mixed woodlands, chaparral, and coastal scrub	X	X	X	X	X	X	X	X	L	X	X	Low potential to occur in suitable habitat with host plants (<i>Rhamnus crocea</i> and <i>Eriogonum fasciculatum</i>) within the 500-foot buffer LFG Pipeline. Not expected to occur in areas lacking suitable habitat. Not observed during 2016 focused surveys.
monarch	<i>Danaus plexippus</i>	None/None/SS/None	Wind-protected tree groves with nectar sources and nearby water sources	L	M	L	X	L	L	M	X	X	X	X	Observed during QCB surveys, however low potential to overwinter on site due to limited suitable habitat. Moderate potential to occur within the 500-foot buffer and component impact footprint at the Morena Pipelines, and North City Pipeline. Low potential to occur within the 500-foot buffer and component impact footprint at the Morena Pump Station, and NCWRP.

APPENDIX N (Continued)

Common Names	Scientific Name	Status (Federal/State/Other/MSCP)	Habitat	Morena Pump Station	Morena Wastewater Forcemain and Brine/Centrate Line (Morena Pipelines)	North City Water Reclamation Plant Expansion (NCWRP)	North City Pure Water Facility - Influent Pump Station (NCPWF Influent Pump Station)	North City Pure Water Facility (NCPWF)	North City Pure Water Pump Station (North City Pump Station)	North City Pure Water Pipeline (North City Pipeline)	Metro Biosolids Center Improvements (MBC)	Landfill Gas Pipeline (LFG Pipeline)	Miramar Water Treatment Plant Improvements (Miramar WTP)	Pure Water Dechlorination Facility (Dechlorination Facility)	Potential to Occur
quino checkerspot	<i>Euphydryas editha quino</i>	FE/None/None/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clay; host plants include <i>Plantago erecta</i> (dwarf plantain), <i>Antirrhinum coulterianum</i> (white snapdragon), and <i>Plantago patagonica</i> (woolly plantain)	X	X	L	X	X	X	X	L	L	X	X	Low potential to occur within the 500-foot buffer of the NCWRP, MBC, and LFG Pipeline. Not expected to occur in areas that lack suitable habitat and outside of USFWS survey area. Not observed during 2016 focused surveys.
wandering skipper	<i>Panoquina errans</i>	None/None/SS/Covered	Saltmarsh	X	X	X	X	X	X	X	X	X	X	X	Not expected to occur within 500-foot buffer or component impact areas due to lack of suitable habitat.

Notes:

- D = detected within the component or 500-foot buffer
- M = moderate potential (suitable habitat and species observed elsewhere within the project)
- L = low potential (suitable habitat but surveys were negative)
- X = not expected (no suitable habitat and/or outside elevation range)

Status Notes:

- FE: Federally Endangered
- FT: Federally Threatened
- FC: Federal Candidate
- FDL: Federally Delisted
- BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
- SSC: California Species of Special Concern
- FP: California Fully Protected Species
- WL: California Watch List Species
- SE: State Endangered
- ST: State Threatened
- SDL: State Delisted
- SS: List Special Animals List, but no other status
- WBWG: Western Bat Working Group
 - H: High
 - HM: High-Medium
 - M: Medium
 - LM: Low-Medium
 - L: Low