

(b)(6)(b)(7)(C)

From: (b)(6)(b)(7)(C)
Sent: Thursday, March 02, 2017 10:19 AM
To: (b)(6)(b)(7)(C)
Subject: RE: SDC BIS BMPs
Attachments: Copy of A-1 BMPs (b)(6)(b)(7)(C)030217.xlsx

In the attached I marked the BMPs that are applicable and should be followed. I also added and modified a couple of the BMPs at the end to account for the T&E species that have the potential to occur in the area.

(b)(6);(b)(7)(C)

Environmental Protection Specialist
Real Estate, Environmental, and Leasing Division
Border Patrol and Air and Marine Program Management Office
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Office: (b)(6);(b)(7)(C)
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From: (b)(6)(b)(7)(C)
Sent: Thursday, March 02, 2017 8:47 AM
To: (b)(6)(b)(7)(C)
Subject: FW: SDC BIS BMPs
Importance: High

(b)(6)(b)(7)(C) are looking for BMPs that should be implemented for the new prototype project we spoke about within the eastern portion of the BIS. As I understand the current project, we will use the 0.25 mile area just east of where the secondary fence ends (within the government owned land). I know we have the butterfly requirements and we should have the standard suite of construction related BMPs which (b)(6)(b)(7)(C) sent in the attached. Can you please take a look at these and narrow down the ones that we should require the contractor to implement? They are looking to get these this morning.

Thank you

From: (b)(6)(b)(7)(C)
Sent: Thursday, March 02, 2017 7:35 AM
To: (b)(6)(b)(7)(C)
Cc: (b)(6)(b)(7)(C)
Subject: RE: BMPs

(b)(6);(b)(7)(C)

In case it helps, here are the BMPs from A-1.

Thanks,

(b)(6)(b)(7)(C)

ID	Master BMP Number	BMP Description	Required?	BMP Keywords	BMP Status
29	2001-1	2	Yes	Individuals of federally listed species found in the project area and requiring relocation will be relocated by a qualified biological monitor to a safe location outside the impact corridor and in accordance with accepted species handling protocols to the extent practicable. Photo document and provide GPS coordinates where correction is needed.	T&E, Animals, General, Disturbance, Species relocation
29	2001-1	3	Yes	If an individual of a T&E species is found in the designated project area, work will cease in the area of the species until either a qualified biological monitor can safely remove the individual, or it moves away on its own.	T&E, Species, Plants, Animals, General, Disturbance, Site restoration
29	2001-1	6	Yes	The perimeter of all areas to be disturbed during construction or maintenance activities are clearly demarcated using flagging or temporary construction fence to prevent unnecessary impacts. Photo document and provide GPS coordinates where correction is needed.	T&E, Non-Listed, Habitat, Soil, Water, Vegetation, General, Disturbance, Perimeter
29	2001-1	11	Yes	To the extent practicable and as schedule permits, the biological monitor has monitored construction activities within designated areas during critical times, such as breeding seasons, vegetation removal, and the installation of BMPs and exclusion fencing, to ensure that all avoidance and minimization measures are properly constructed and followed.	T&E, Vegetation, Habitat, General, Disturbance
29	2001-1	12	Yes	Construction speed limits should not exceed 35 mph on major unpaved roads (graded with ditches on both sides) and 25 mph on all other unpaved roads. Night time travel speeds should not exceed 25 mph, and may be less based on visibility and other safety considerations. Monitor will periodically (once a week) ask land managing agency and construction manager if any speeding incidents have occurred.	T&E, Animals, Vehicles, Roads
29	2001-1	13	Yes	Transmission of disease vectors and invasive non-native aquatic species can occur if vehicles cross infected or infested streams or other waters and water or mud remains on the vehicle. If these vehicles subsequently cross or enter uninfected or non-infested waters, the disease or invasive species may be introduced to the new area. To prevent this, crossing of streams or marsh areas with flowing or standing water will be avoided, and when unavoidable, the vehicle will be sprayed with a 10% bleach solution after the crossing before entering a new watershed. Photo document and provide GPS coordinates where correction is needed.	T&E, Invasives, Water, Vehicles, Wetlands
29	2001-1	14	Yes	All equipment maintenance, staging, laydown, and dispensing of fuel, oil, or any other such activities, will occur in designated upland areas. The designated upland areas will be located in such a manner as to prevent any runoff from entering waters of the United States, including wetlands. Photodocument and provide GPS coordinates where correction is needed.	T&E, Water, Wetlands, Staging, Vehicles, HazMat, Disturbance
29	2001-1	15	Yes	Stormwater management plan is being implemented. ACOE to provide monitor a copy of SWPPP for review. Access routes into and out of the project area are clearly flagged. Photo document and provide GPS coordinates where correction is needed.	T&E, Water, General, Erosion, Runoff, Storm water
29	2001-1	16	Yes	No pets owned or under the care of the project proponent or any and all construction workers will be permitted inside the project's construction boundaries, adjacent native habitats, or other associated work areas.	Roads, T&E, Non-Listed, Vegetation, Habitat, Disturbance, Perimeter
29	2001-1	17	Yes	Light poles and other pole-like structures will be designed to discourage roosting by birds, particularly ravens or other raptors that may use the poles for hunting perches.	T&E, Non-Listed, Disturbance, General
29	2001-1	18	Yes	Light poles and other pole-like structures will be designed to discourage roosting by birds, particularly ravens or other raptors that may use the poles for hunting perches.	T&E, Non-Listed, General, Lights, Birds
29	2001-1	19	Yes	To prevent entrapment of wildlife species during the construction of the project, all excavated, steepwalled holes or trenches more than 2 feet deep will either be covered at the close of each working day by plywood or provided with one or more escape ramps constructed of earth fill or wooden planks. The ramps will be located at no greater than 1,000-foot intervals and will be sloped less than 45 degrees. Each morning before the start of construction and before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. Any animals so discovered will be allowed to escape voluntarily (by escape ramps or temporary structures), without harassment, before construction activities resume, or removed from the trench or hole by a qualified biologist and allowed to escape unimpeded.	T&E, Non-Listed, General, Disturbance, Excavation, Trench, Animals
29	2001-1	20	Yes	Potential for erosion off the designated road bed into federally listed species habitat has been avoided or minimized.	Roads, Erosion, T&E
29	2001-1	21	Yes	The potential for entrapment of surface flows within the road bed due to grading will be avoided or minimized. Depth of any pits created will be minimized so animals do not become trapped. Photo document and provide GPS coordinates where correction is needed.	Roads, Runoff, Animals, Design, Erosion, Water
29	2001-1	22	Yes	The widening of existing or created road bed beyond the design parameters due to improper maintenance and use will be avoided or minimized. The width of all roads that are created or maintained by CBP should be measured and recorded using GPS coordinates and provided to the Government. Maintenance actions should not increase the width of the road bed or the amount of disturbed area beyond the road bed. Photo document and provide GPS coordinates where correction is needed. Monitor to acquire GIS shape files from Construction Contractor at end of project.	Roads, Maintenance
29	2001-1	23	NA	Water for construction use shall be from wells at the discretion of the landowner. If local groundwater pumping is an adverse effect to aquatic, marsh, or riparian dwelling T&E species, treated water from outside the immediate area will be utilized.	General, Water, Wetlands, T&E, Wells
29	2001-1	24	NA	To the extent practicable, stream crossings will not be located near or at bends or meanders but rather at straight stream reaches where channel stability is enhanced.	Roads, Water, Wetlands, Erosion, Streams
29	2001-1	25	Yes	Excessive use of unimproved roads that results in their deterioration such that it affects the surrounding T&E species habitat areas should be monitored and corrective maintenance provided. Photo document and provide GPS coordinates where correction is needed.	Roads, Erosion, T&E, Habitat
29	2001-1	26	NA	The minimum number of roads needed for proposed actions will be constructed and maintained to proper standards. Roads no longer needed should be closed and restored to natural surface and topography using appropriate techniques. The GPS coordinates of roads that are thus closed should be recorded and provided to the Government. A record of acreage or miles of roads taken out of use, restored, and revegetated will be maintained. Photo document restoration efforts if they occur prior to completion of project. Acquire GIS files from Construction Contractor.	Roads, Restoration
29	2001-1	27	NA	Roads will be designed to minimize road kill and fragmentation of federally listed populations to the extent practicable. Underpasses for wildlife might be appropriate to minimize road kill and population fragmentation. Exclusion fencing might be appropriate where road kill is likely or to direct species to underpasses or other passageways.	Roads, Animals, Habitat
29	2001-1	28	Yes	When available, areas already disturbed by past activities or those that will be used later in the construction period will be used for staging, parking, and equipment storage.	Staging Areas, Disturbance
29	2001-1	31	Yes	A CBP-approved spill protection plan is being implemented at construction and maintenance sites to ensure that any toxic substances are properly handled and escape into the environment prevented. Agency standard protocols should be used. Drip pans underneath equipment, containment zones used when refueling vehicles or equipment, and other measures are to be included. ACOE to provide monitor a copy of spill plan for review. Photo document and provide GPS coordinates where correction is needed.	General, HazMat, Fuel, Spill
29	2001-1	32	Yes	To eliminate attraction to predators of protected animals, all food related trash items such as wrappers, cans, bottles, and food scraps, will be disposed of in closed containers and removed daily from the project site. Nonhazardous waste materials and other discarded materials such as construction waste will be contained until removed from site. This should assist in keeping the project area and surroundings free of litter and reduce the amount of disturbed area needed for waste storage. Photo document and provide GPS coordinates where correction is needed.	General, HazMat, Animals, Waste
29	2001-1	33	Yes	Waste water (water used for project purposes that is contaminated with construction materials, was used for cleaning equipment and thus carries oils or other toxic materials or other contaminants in accordance with state regulations) will be stored in closed containers on site until removed for disposal. Concrete wash water will not be dumped on the ground, but is to be collected and moved offsite for disposal. This wash water is toxic to aquatic life. Photo document and provide GPS coordinates where correction is needed.	General, HazMat, Water
29	2001-1	34	Yes	To prevent entrapment of wildlife species during emplacement of vertical posts/bollards, all vertical fence posts/bollards that are hollow (i.e., those that will be filled with a reinforcing material such as concrete), shall be covered so as to prevent wildlife from entrapment. Covers will be deployed from the time the posts or hollow bollards are erected to the time they are filled with reinforcing material. Photo document and provide GPS coordinates where correction is needed.	General, Animals
29	2001-1	36	Yes	Soil-binding agents will be applied during the late summer/early fall months to avoid impacts on federally listed species. Soil-binding agents will not be used in or near surface waters (such as wetlands, perennial streams, intermittent streams, and washes).	General, Soil
29	2001-1	37	Yes	Soil-binding agents will be applied during the late summer/early fall months to avoid impacts on federally listed species. Soil-binding agents will not be used in or near surface waters (such as wetlands, perennial streams, intermittent streams, and washes).	General, Soil
29	2001-1	38	NA	Fill slopes associated with canyon fills will be restored using native species. If slope stabilization is necessary (such as gabions or riprap), such material will be placed only at the toe-of-slope and in a manner that will not preclude fauna from accessing the fill slopes, the culvert/underpass, and the habitat beyond the fill slopes.	General, Restoration

29	2001-1	41	Yes	No invasive exotic plant species will be seeded or planted adjacent to or near sensitive vegetation communities or waters of the United States. Impacted areas will be reseeded with plant species native to local habitat types, and will avoid the use of species listed as High or Moderate in the California Invasive Plant Council's Invasive Plant Inventory (Revision 2005) to the extent practicable. Areas hydro-seeded for temporary erosion-control measures will use only native plant species appropriate to surrounding habitat types.	General, Restoration, Invasives, Wetlands, Erosion, Streams
29	2001-1	42	Yes	Temporary impact areas will be restored in kind, except for temporary impacts on disturbed habitat and non-native grasslands. In general native areas will be revegetated with the most appropriate native plant palette following completion of the work.	General, Disturbance, Restoration
29	2001-1	44	Yes	Materials such as gravel have been obtained from existing developed or previously used sources, not from undisturbed sites.	General, Soil, Fill
29	2001-1	47	Yes	Within the designated disturbance area, grading or topsoil removal will be limited to areas where this activity is needed to provide the ground conditions needed for construction or maintenance activities. Minimizing disturbance to soils will enhance the ability to restore the disturbed area after the project is complete. Photo document and provide GPS coordinates where correction is needed.	Roads, Staging Areas, Disturbance, Soil, Restoration
29	2001-1	48	Yes	Removal of trees and brush in T&E species habitats will be limited to the smallest amount needed to meet the objectives of the project. Photo document and provide GPS coordinates where correction is needed.	General, Vegetation, T&E, Habitat, Brush, Clearing
29	2001-1	49	Yes	Surface water from aquatic or marsh habitats will not be used for construction purposes if that site supports aquatic T&E species or if it contains non-native invasive species or disease vectors and there is any opportunity to contaminate a T&E species habitat through use of the water at the project site.	General, Water, Wetlands, T&E, Invasives
29	2001-1	50	Yes	Surface water from untreated sources, including water used for irrigation purposes, will not be used for construction or maintenance projects located within one mile of aquatic habitat for T&E aquatic species. Groundwater or surface water from a treated municipal source will be used when close to such habitats. This is to prevent the transfer of invasive animals or disease pathogens between habitats if water on the construction site was to reach the T&E species habitats.	General, Water, Wetlands, T&E, Invasives
29	2001-1	51	Yes	Water tankers that convey untreated surface water will not discard unused water where it has the potential to enter surface waters or drainages. The environmental monitor will advise as to appropriate sites. Storage tanks containing untreated water should be of a size that if a rainfall event were to occur (assuming open), the tank would not be overtopped and cause a release of water into the adjacent drainages. Water storage on the project area should be in on-ground containers located on upland areas not in washes. Photo document and provide GPS coordinates where correction is needed.	General, Water, Wetlands
29	2001-1	52	Yes	Pumps, hoses, tanks and other water storage devices will be cleaned and disinfected with a 10% bleach solution at an appropriate facility (this water is not to enter any surface water area) before use at another site, if untreated surface water was used. If a new water source is used that is not from a treated or groundwater source, the equipment will require additional cleaning. This is important to kill any residual disease organisms or early life stages of invasive species that may affect local populations of T&E species.	General, Water, Water Storage
29	2001-1	53	Yes	If construction or maintenance work activities are to continue at night, all lights will be shielded to direct light only onto the work site and the area necessary to ensure the safety of the workers, the minimum wattage needed will be used, and the number of lights will be minimized. Photo document and provide GPS coordinates where correction is needed.	T&E, General, Water, Wetlands, Invasives, Water Storage
29	2001-1	54	Yes	Noise levels for construction (any time of day or night) and maintenance should be minimized for all projects affecting federally listed animals. All generators are in baffle boxes, have an attached muffler, or use other noise-abatement methods, in accordance with industry standards.	General, Lights
29	2001-1	55	Yes	Materials used for on-site erosion control in native habitats will be free of non-native plant seeds and other plant parts to limit potential for infestation. Since natural materials cannot be certified as completely weed-free, if such materials are used, there will be follow up monitoring to document establishment of non-native plants and appropriate control measures should be implemented for a period of time to be determined in the site restoration plan. Photo document and provide GPS coordinates where correction is needed.	General, Noise, Vehicles, Generators
29	2001-1	56	Yes	Fill material brought in from outside the project area will be identified as to source location and will appear to be weed free. Inspect fill loads as they arrive. Return to fill sites from earlier in construction and inspect for weed germination. Photo document and provide GPS coordinates where correction is needed.	General, Erosion, Restoration, Invasives
29	2001-1	57	Yes	Invasive plants that appear on the site will be removed. Mechanical removal will be done in ways that eliminate the entire plant and remove all plant parts to a disposal area. Herbicides can be used according to label directions if they are not toxic to T&E species that may be in the area. Training to identify non-native invasive will be provided for CBP personnel or contractors as necessary. Photo document and provide GPS coordinates where correction is needed.	General, Invasives, HazMat, T&E, Herbicides
29	2001-1	79	No	All staging, parking, and equipment storage areas are out of wetlands, riparian areas, and livestock watering areas and located in disturbed areas, to the extent possible. Photo document and provide GPS coordinates where correction is needed.	General, Invasives, HazMat, T&E, Herbicides
29	2001-1	80	Yes	Existing roads will be utilized for construction purposes to the extent practicable. If an existing road is available for Project purposes, even if improvement is necessary, that road will be utilized.	Staging Areas, Wetlands, Streams, Water
29	2001-1	81	Yes	No off-road vehicle activity will occur outside of the project footprint by the project proponent, project workers, and project contractors.	Roads
29	2001-1	83	Yes	Visible space underneath all heavy equipment is checked for listed species and other wildlife prior to moving the equipment.	General, Vehicles, Perimeter
29	2001-1	84	Yes	During the construction phase, short term noise impacts are anticipated. All Occupational Safety and Health Administration requirements shall be followed. Construction equipment shall possess properly working mufflers and shall be kept properly tuned to reduce backfires. Implementation of these measures shall reduce the expected short term noise impacts to an insignificant level in and around the construction site.	General, Vehicles, Animals, Equipment
29	2001-1	85	Yes	Mitigation measures will be incorporated to ensure that PM10 emission levels do not rise above the de minimus threshold as required per 40 CFR 51.853(b)(1). Measures shall include dust suppression methods to minimize airborne particulate matter that will be created during construction activities. Standard construction BMPs, such as routine watering of the patrol, drag, and access roads, shall be used to control fugitive dust during the construction phases of the proposed project. Additionally, all construction equipment and vehicles shall be required to be kept in good operating condition to minimize exhaust emissions.	General, Noise, Vehicles, Equipment
29	2001-1	86	Yes	Vehicular traffic associated with the construction activities and operational support activities shall remain on established roads to the maximum extent practicable. Areas with highly erodible soils will be given special consideration when designing the proposed project to ensure incorporation of various BMPs, such as, straw bales, aggregate materials, and wetting compounds, to control erosion. A SWPPP will be prepared prior to construction activities and BMPs described in the SWPPP will be implemented to reduce erosion. Photodocument and provide GPS coordinates where correction is needed.	General, HazMat, Air, Vehicles, Equipment
29	2001-1	87	Yes	Standard construction procedures shall be implemented to minimize the potential for erosion and sedimentation during construction. All work shall cease during heavy rains, and shall not resume until conditions are suitable for the movement of equipment and materials. All fuels, waste oils, and solvents shall be collected and stored in tanks or drums within a secondary containment area consisting of an impervious floor and bermed sidewalls capable of holding the volume of the largest container stored therein. The refueling of machinery shall be completed following accepted guidelines, and all vehicles shall have drip pans during storage to contain minor spills and drips. No refueling or storage shall take place within 100 feet of a drainage channel or structure. Other design measures shall be implemented, such as straw bales, silt fencing, aggregate materials, wetting compounds, and re-vegetation with native plant species, where possible, to decrease erosion and sedimentation. Furthermore, a SWPPP and all applicable Section 404/401 permit procedures shall be completed before construction shall be initiated within jurisdictional Waters of the U.S. (WUS). It shall be the responsibility of the Design/Build Contractor to prepare and submit 404 and 401 permit applications to the respective USCOE and State offices. Photodocument and provide GPS coordinates where correction is needed.	Roads, Vehicles, Erosion, Storm water
29	2001-1	88	Yes	Typical erosion-control measures and BMPs have been employed throughout the project area in accordance with the Project Storm Water Pollution Prevention Plan (SWPPP).	General, Erosion, Storm water
29	2001-1	89	Yes	Waste materials and other discarded materials will be removed from the site as quickly as possible.	General, Erosion, Storm water
29	2001-1	90	Yes		General, HazMat, Waste

29	2001-1	91	Yes	All generally native areas, as opposed to generally developed areas, temporarily impacted by construction activities (e.g., staging areas or temporary access roads) will need to be revegetated with native plant species using a standardized restoration plan. The restoration plan will describe revegetating all temporarily disturbed generally native areas associated with the Project. All native seed and plant stock will be from seed and propagules collected within a 5-mile radius of the work area to the extent practicable. All seeding will occur during the first winter or fall following completion of the work, prior to winter rains. Photo document and provide GPS coordinates and an estimate of the square footage/acreage impacted.	Roads, Staging Areas, Restoration, Erosion
29	2001-1	100	Yes	(Quino Checkerspot Butterfly) Prior to Project impacts (excluding geotechnical), all patches of dwarf plantain (<i>Plantago erecta</i>), and other known host plants (<i>Plantago</i> spp., plantain; <i>Castilleja exserta</i> , annual owl's clover; and <i>Cordylanthus rigidus</i> , thread-leaved birdsbeak) occurring within and immediately adjacent to the Project footprint, will be clearly delineated by a biologist with experience identifying Quino habitat and familiar with the areas of known Quino activity near the construction corridors. The host plant areas determined to be within the Project footprint will be delineated for future reference. The host plant areas determined to be immediately outside of the Project footprint will be delineated with orange snow fencing or equivalent during construction activities to avoid additional direct impacts. Photo document and provide GPS coordinates and an estimate of the square footage of transplanted material.	General, Quino checkerspot butterfly, Animals, Habitat, T&E, Perimeter, Monitor
29	2001-1	101	NA	(Arroyo Toad) If facilities will be within 0.3 miles of toad habitat, the facility will be placed as near the outer edge of the area with as little ground disturbance as possible, vegetation clearing will be limited, and erosion-control measures put in place to reduce sediment runoff.	General, Habitat, Vegetation, Erosion, Animals, Arroyo toad, T&E
29	2001-1	102	NA	(Arroyo Toad) All new roads will be designed to minimize the risk of erosion or adverse effects on aquatic habitats of the toad. Routes that cross seasonally or perennially flowing streams will be avoided if feasible. If not avoidable, crossings will be designed to minimize effects on streams through use of culverts or other design features that protect natural substrates and flows. Photo document and provide GPS coordinates where correction is needed.	Roads, Erosion, Wetlands, Habitat, Animals, Arroyo toad, T&E, Streams, Water
29	2001-1	103	NA	(Arroyo Toad) Monitoring will be conducted during the breeding season as well as during precipitation events when toads will likely become active. The biological monitor will survey all Project areas utilized during construction (e.g., roads, staging, construction, lay down) that are in or adjacent to arroyo toad habitat. Detected toads will be counted and moved a safe distance outside of harm's way. Occurrences of such will be reported to the USFWS. Photo document and provide GPS coordinates both where toads are found and relocated to.	General, Animals, Arroyo toad, T&E, Monitor, Roads, Staging
29	2001-1	104	NA	(Arroyo Toad) Arroyo toads found within the Project footprint will be captured and translocated by a qualified biologist to the closest area of suitable habitat. The biologist will coordinate with the appropriate property owners to allow for any arroyo toads to be placed there. Record the date, time of capture, specific location of capture and re-location (UTM) for each toad moved.	General, Animals, Arroyo toad, T&E, Monitor, Roads, Staging, Relocation
29	2001-1	106	NA	(Arroyo Toad) High velocity releases from the Project activities (during and after construction) that could degrade habitat will be avoided.	General, Animals, Arroyo toad, T&E, Water, Storm water
29	2001-1	107	Yes	(Arroyo Toad) Any use or storage of chemicals or fuels at construction sites or staging areas will be kept 0.3 miles away from toad habitat.	General, HazMat, Animals, Arroyo toad, T&E, Fuel
29	2001-1	108	Yes	(Arroyo Toad) To the extent practicable, use of herbicides will not occur within toad habitat.	General, Animals, HazMat, Arroyo toad, T&E, Herbicides
29	2001-1	109	No	(Willow Jennifer's Monardella) If facilities will be located within or adjacent to occupied habitat, surveys to document the numbers and distribution of individuals will be conducted, and the Project will be designed to avoid individuals to the extent practicable.	General, Plants, T&E, Jennifer's/Willow monardella, Monitor
29	2001-1	110	No	(Willow Jennifer's Monardella) Individuals to be impacted by the Project will be translocated to a suitable site, using appropriate techniques. The USFWS will assist CBP in location suitable sites immediately outside the impact corridor and identifying appropriate techniques.	General, Plants, T&E, Jennifer's/Willow monardella, Relocation
29	2001-1	111	No	(Willow Jennifer's Monardella) The biological monitor will advise and monitor construction activities to avoid accidental damage to nearby individuals outside of the designated impact area.	General, Plants, T&E, Jennifer's/Willow monardella, Monitor
29	2001-1	112	Yes	(San Diego Thornmint, San Diego Ambrosia, Otay Tarplant, Spreading Navarretia, California Orcutt Grass, San Diego Button Celery, Mexican Flannelbush, Otay Mesa-mint) If facilities will be within or adjacent to occupied habitat, surveys to determine the extent of occupied habitat within the impact footprint will be conducted, and the Project will be designed to avoid individuals to the extent practicable.	General, Plants, T&E, San Diego thornmint, Monitor
29	2001-1	113	Yes, if necessary	(San Diego Thornmint, San Diego Ambrosia, Otay Tarplant, Spreading Navarretia, California Orcutt Grass, San Diego Button Celery, Mexican Flannelbush, Otay Mesa-mint) The biological monitor will supervise construction activities to avoid accidental damage to nearby individuals outside of the designated impact area.	General, Plants, T&E, San Diego thornmint, Monitor
29	2001-1	287	Yes	All chemicals or potentially toxic materials are stored in secure containers, clearly labeled and removed from the site when construction is complete. Photo document and provide GPS coordinates where correction is needed.	General, Cultural Resources
			Yes	A survey for migratory birds will be conducted prior to all maintenance and repair activities to be implemented during the nesting period in areas where migratory birds might be nesting.	
			Yes	(Fairy Shrimp) Road maintenance that results in changes in storm water runoff and vegetation-clearing and -control activities, in vernal pools, their basins, and watersheds would be avoided. These activities in critical habitat, known vernal pool locations, or other potential vernal pool locations will require a pre-activity survey by a qualified biologist to ensure that vernal pools would not be impacted.	
			Yes	(Fairy Shrimp) Ensure routine road maintenance practices are implemented to avoid prolonged establishment of road and tire ruts, within and adjacent to known shrimp occurrences, critical habitat areas, and potential shrimp habitats.	