Mitigation Monitoring and Reporting Plan

BART Market Street Canopies and Escalators Modernization Project

San Francisco Bay Area Rapid Transit District

June 2018

Mitigation Monitoring and Reporting Plan

BART Market Street Canopies and Escalators Modernization Project

Prepared for

San Francisco Bay Area Rapid Transit District

300 Lakeside Drive, 21st floor

Oakland, CA 94612

Prepared by

AECOM

300 Lakeside Drive, Suite 400

Oakland CA 94612

June 2018

Table of Contents

Page

1. INTRODUCTION 1

1.1 Purpose and Need for Monitoring 1
1.2 Project Description 1
1.3 Mitigation Monitoring Program 3
1.4 Roles and Responsibilities 3

2. PROJECT MITIGATION MEASURES 4

2.1 Introduction 4
2.2 Project Mitigation Measures and Monitoring Actions 4

This page intentionally left blank.

1. INTRODUCTION

1.1 Purpose and Need for Monitoring

Pursuant to the California Environmental Quality Act (CEQA), an Initial Study/Mitigated Negative Declaration (IS/MND) was prepared by the San Francisco Bay Area Rapid Transit District (BART) to address the potential environmental effects of the BART Market Street Canopies and Escalators Modernization Project (proposed project). The Draft IS/MND was issued for a public review period that began on April 30, 2018 and ended on May 30, 2018. A Final IS/MND has been prepared that provides all comments on the proposed project and responds to those comments. The environmental analyses for the proposed project identified potential impacts and measures to mitigate those impacts wherever feasible. Potential impacts and mitigation measures were identified in the following areas:

- Air Quality
- Biological Resources

This Mitigation Monitoring and Reporting Plan (MMRP) identifies the mitigation actions that will be performed by BART to compensate for, reduce, minimize, or eliminate the effect of impacts resulting from construction and operation of the proposed project. This MMRP identifies and clarifies the mitigation measures to be implemented by BART for the proposed project and identifies the parties responsible for implementation and monitoring. This MMRP incorporates all mitigation measures identified in the IS/MND.

1.2 Project Description

The San Francisco Bay Area Rapid Transit District (BART), in cooperation with the City and County of San Francisco, is working to improve escalator durability and security at 22 entrances to the four downtown San Francisco BART/Muni station entrances/exits along Market Street (Embarcadero, Montgomery Street, Powell Street, and Civic Center/UN Plaza). The Proposed Project would include the installation of canopy covers over the 22 entrances as well as replacement and refurbishment of existing street-level escalators. These improvements would be constructed in accordance with the American Society of Mechanical Engineers (ASME) A17.1, Section 6.1.8, which states that all new or replaced escalator units must be covered in order to protect existing escalators from weather-related damage.

The majority of the station entrances/exits at the four downtown San Francisco BART/Muni stations along Market Street lack protective shelter. As such, these entrances/exits are exposed to inclement weather such as rain and wind. The entrances/exits are also exposed to various forms of discarded trash deposited by BART/Muni patrons or blown into the entrances/exits. Years of exposure to the elements, as well as wear and tear by BART/Muni patrons, have taken a toll on the escalators, leading to frequent breakdowns. In addition, most of the existing escalators are well past their expected service life, contain obsolete components, and require frequent shutdowns to perform repairs.

Under current conditions, the entrances/exits cannot be secured at the street level during non-operating hours. The lack of a feasible method to secure the entrance/exit stairways creates additional maintenance and security concerns for BART station agents due to public use during non-operating hours.

Each protective canopy would approximately 25 feet wide, 57 feet long, and 16 feet high depending on the station site, and would be equipped with a motorized security grille that would lock at the sidewalk level of the station entrance/exit when the stations are closed. Most of the canopies would include three glass walls which would be installed in approximately the same footprint as the existing masonry walls that currently surround the entrances/exits.

1.3 Mitigation Monitoring Program

This MMRP has been prepared for the BART Market Street Canopies and Escalators Modernization Project in accordance with the California Public Resources Code Section 21081.6, which specifies that when a public agency makes findings required by paragraph (1) of subdivision (a) of Section 21081, it "…shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment." Such findings have been made by the BART Board of Directors. Public Resources Code 21081.6 further specifies that the MMRP will "…ensure compliance during project implementation."

This MMRP is intended to ensure the effective implementation of mitigation measures that are within the authority of BART to implement, including monitoring where identified, throughout all phases of development and operation of the project. The MMRP may be modified by BART during Project implementation, as necessary, in response to changing conditions or other refinements. The mitigation monitoring plan table has been prepared to assist the responsible parties in implementing the MMRP. The table identifies individual mitigation measures, monitoring and reporting procedures or actions, monitoring/mitigation timing, responsible person/agency for implementing the measures, and space to confirm implementation of the mitigation measures.

1.4 Roles and Responsibilities

The BART Project Manager (PM) will be responsible for oversight of mitigation actions and reporting on compliance with the measures in the MMRP. BART staff, consultants to BART, and/or contractors to BART will perform mitigation actions. The PM will have the following responsibilities:

- Be knowledgeable in the mitigation that is to be monitored.
- Verify implementation of the mitigation by:
    - ensuring before advertisement for contract bids that bid documents, contracts, and other plans and specifications include requirements to implement identified mitigation measures; and
    - conducting site visits in the field to ensure that required implementation has been properly executed during and after construction.

2. PROJECT MITIGATION MEASURES

2.1 Introduction

This section describes the mitigation measures for each of the impacts identified in the BART Market Street Canopies and Escalators Modernization IS/MND and identifies the parties responsible for implementation and monitoring of each measure. Mitigation measures are numbered using a prefix to link them with the impact they address. ("Mitigation Measure AQ-1" refers to the first mitigation measure identified in the Air Quality section.) For ease of reference, the impacts and mitigation measures in this MMRP are numbered as they were described in the environmental analysis. The resource topics are discussed in the same order as presented in the IS/MND.

2.2 Project Mitigation Measures and Monitoring Actions

The mitigation measures and monitoring actions presented in the table starting on the next page apply to the proposed project.

The columns in the MMRP table are described below:

- Mitigation Number − the mitigation measure descriptor/number from the IS/MND.
- Mitigation Measure − the text of the mitigation measure from the IS/MND.
- Timing/Monitoring Action − the time frame or Project phase when the mitigation measure will be implemented, and the monitoring action or reporting procedure required as evidence of mitigation measure implementation.
- Implementation Responsibility − the entity responsible for complying with the requirements of the mitigation measure. In most cases, the construction contractor will be responsible for implementing the mitigation measure; however, as noted previously under the BART PM's roles and responsibilities, the PM is to ensure that the mitigation measure is included in the bid documents, contracts, and other plans and specifications for construction and operation of the Project and that mitigation measures are implemented in compliance with this plan.
- Verification of Implementation − evidence that the mitigation measure has been implemented. This column is to be dated and initialed by the PM, or his/her designee, based on the documentation provided by the construction contractor and onsite monitoring.

Mitigation Measure	Timing/Monitoring Action	Implementation Responsibility	Verification of Implementation
AIR QUALITY			
Mitigation Measure AQ-1: Basic Air Quality Construction Control Measures.			
The following measures will be implemented by the BART construction contractor during all phases of construction on the project site: • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, water exposed areas as necessary to minimize air emissions according to the plans and specifications	2) Contractor	
	3) Document watering on stormwater pollution prevention plan (SWPPP) inspection form	3) Contractor	
	4) Verify implementation of Items 2 and 3	4) BART	
• All haul trucks transporting soil, sand, or other loose material off site shall be covered.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, cover haul trucks transporting loose materials off site	2) Contractor	
	3) Verify implementation of Item 2	3) BART	
• All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, use wet power vacuum street sweepers to remove mud or dirt from adjacent public roads, in accordance with the requirements of this measure	2) Contractor	
	3) Document removal of mud or dirt track out on SWPPP inspection forms	3) Contractor	
	4) Verify implementation of Items 2 and 3	4) BART	

Mitigation Measure	Timing/Monitoring Action	Implementation Responsibility	Verification of Implementation
• All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, complete the paving and building pads as soon as possible, unless other provisions as noted are implemented	2) Contractor	
	3) Verify implementation of Item 2	3) BART	
• Idling times shall be minimized either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by California airborne toxics control measure Title 13, Section 2485 of the California Code of Regulations). Clear signage shall be provided for construction workers at all access points.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, minimize idling times as specified in this measure	2) Contractor	
	3) During construction, provide clear signage at all access points	3) Contractor	
	4) Verify implementation of Items 2 and 3	4) BART	

Mitigation Measure	Timing/Monitoring Action	Implementation Responsibility	Verification of Implementation
• All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) During construction, ensure construction equipment is maintained and properly tuned per the manufacturer's instructions	2) Contractor, certified visible emissions evaluator	
	3) Verify implementation of Item 2	3) BART	
• A publicly visible sign shall be posted at the project site with the telephone number and person to contact regarding dust complaints. This person shall respond and initiate a corrective action. The BAAQMD's phone number shall also be visibly posted, for compliance with applicable regulations.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) Before construction, designate contact person to receive dust complaints	2) BART, Contractor	
	3) During construction, ensure that information to contact BART and the BAAQMD is posted and visible	3) Contractor	
	4) Following the filing of a complaint, verify that contact person has taken corrective action within specified time frame	4) BART, Contractor	
BIOLOGICAL RESOURCES			
Mitigation Measure BIO-1: Tree Removal or Pruning.			
• Tree or shrub removal or pruning will be avoided from February 1 through August 31, the bird nesting period, to the extent feasible. If no tree or shrub removal or pruning is proposed during the nesting period, no surveys or further mitigation measures are required. This time period coincides with the western tiger swallowtail butterfly's use of the London plane trees as host plants. Therefore, avoiding tree removal during this time frame will also reduce likelihood of impacts to developing butterflies.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) If tree removal or pruning would occur during this period, implement Mitigation Measure BIO-2	2) BART, Contractor	

Mitigation Measure	Timing/Monitoring Action	Implementation Responsibility	Verification of Implementation
Mitigation Measure BIO-2: Nesting Bird Survey.			
If any project construction activities occur during the active nesting period (February 1 through August 31), a pre-construction survey for nesting birds within the immediate project footprint will be conducted by a qualified biologist. Nesting bird surveys will be conducted within 1 week before initiation of construction activities. If no active nests are found, no further surveys and no further mitigation will be required.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) Prior to pre-construction bird survey, submit biologist resume for approval by BART	2) Contractor	
	3) Prior to pre-construction bird survey, notify BART of date and time of survey	3) Contractor	
	4) Within 1 week before initiation of construction activities, conduct survey for active nests	4) Contractor, Qualified Biologist	
	5) Provide letter memo to BART of survey results within 7 days	5) Qualified Biologist	
If two weeks lapse during construction within the active nesting period (i.e., if no work takes place on site for two continuous weeks between February 1 and August 31), then the survey should be repeated to ensure that any nests have not been occupied or created during the work stoppage. The survey would be required each year prior to any project construction activities occurring during the active nesting period. The survey would not be required if construction occurred outside of the active nesting period.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure.	1) BART	
	2) Prior to bird survey during active nesting period, notify BART of date and time of survey	2) Contractor	
	3) Conduct survey for active nests	3) Contractor, Qualified Biologist	
	4) Provide letter memo to BART of survey results within 7 days	4) Qualified Biologist	

Mitigation Measure	Timing/Monitoring Action	Implementation Responsibility	Verification of Implementation
If active nests are found in any impact areas, a qualified biologist will assess the potential impacts of project construction noise levels to ensure an appropriate buffer is established to protect the active nests. The extent of these buffers will be determined by the biologist based on the level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers. CDFW will be consulted if any listed species are found to nest in the project area.	1) Before construction of the Project, ensure and verify that bid documents and contracts, and other plans and specifications include this measure	1) BART	
	2) If active nests are identified during pre-construction bird surveys, notify BART and assess situation	2) BART, Contractor, Qualified Biologist	
	3) Contact CDFW as necessary for concurrence of buffers	3) BART, Qualified Biologist	
	4) During construction, ensure construction staff adhere to buffer distances	4) BART, Contractor	
	5) Verify implementation of Item 4	5) BART	