

EAST BAY MUNICIPAL UTILITY DISTRICT LAND USE MASTER PLAN ENVIRONMENTAL IMPACT REPORT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact Summary	Mitigation No.	Mitigation Measure (Exact Text)	Implementation and Reporting		Monitoring and Reporting Program		Implementation Schedule - Design (D) - Pre-Construction (PC) - During Construction (C) - Operational (O)
				Responsible Party	Reviewing & Approval Party	Responsible Party	Monitoring and Reporting Actions	
3.2 AESTHETICS								
AES-2	Alter Existing Visual Character and Views in the Study Area	AES-2a	Mitigation Measure AES-2a: Maintenance of Construction Worksite Throughout the period of demolition and construction, EBMUD will require that the construction contractor keep the worksite free and clean of all rubbish and debris and promptly remove from the site or from property adjacent to the site of the work, all unused and rejected materials, surplus earth, concrete, plaster, and debris.	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	1. Confirm that measure is in the construction specifications for the project. 2. Verify that worksite is kept free and clean of all rubbish and debris.	1. D 2. C	
		AES-2b	Mitigation Measure AES-2b: Design of Facilities to Be Aesthetically Consistent with Existing Visual Character EBMUD would require all new facilities be, at a minimum, designed to be aesthetically consistent with existing visual character and surrounding wastewater treatment buildings. Design, exterior finishes, and color would blend with the surrounding facilities.	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	1. Confirm that design is consistent with measure.	1. D	
AES-3	New Source of Substantial light or Glare	AES-3	Mitigation Measure AES-3: Lighting Design and Low Reflective Paint EBMUD would require that lighting be consistent with existing lighting in terms of height, spacing and design. New lighting would be shielded and directed to the interior of the project site. New structures and buildings would be painted in low reflective paint consistent with existing structures at the MWWTP.	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	1. Confirm that measure is incorporated in specifications for the project 2. Confirm that lighting is installed as required by specifications	1. D 2. C	
3.3 AIR QUALITY								
AIR-1	Construction Emissions of Criteria Pollutants and Precursors	AIR-1	Mitigation Measure AIR-1: Criteria Air Pollutant and Precursor Reduction Measures To limit dust, criteria pollutant, and precursor emissions associated with construction of all Land Use Master Plan projects, EBMUD shall include the following measures, as applicable, in contract specifications: a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. b. All haul trucks transporting soil, sand, or other loose material off site shall be covered. c. 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. d. All vehicle speeds on unpaved areas shall be limited to 15 miles per hour. e. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. f. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]).	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	1. Confirm that measure is in the construction specifications for the project. 2. EBMUD inspector to verify that dust control measures are implemented during construction	1. D 2. C	

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AIR-5	Local Community Risks and Hazards During Project Operation	AIR-5	<p>Clear signage shall be provided for construction workers at all access points.</p> <p>g. 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.</p> <p>h. A publicly visible sign with the telephone number and person to contact at the Lead Agency regarding complaints related to excessive dust or vehicle idling shall be posted at the MWWTP entrance. This person shall respond and take corrective action within 48 hours.</p> <p>Mitigation Measure AIR-5: Diesel Particulate Reduction Measures Diesel-powered on-site rolling stock (2 loaders, excavator, and 2 end dump trucks) associated with the food waste preprocessing facility and any other diesel equipment or trucks operating solely within the MWWTP and West End property under the control of EBMUD shall install a CARB-verified Level 3 Diesel Particulate Filter to reduce PM2.5 emissions to achieve a minimum reduction of 50 percent (sufficient to reduce combined emissions to below the BAAQMD CEQA excess cancer risk threshold of 10 in a million). Alternative options for achieving this reduction can also be implemented, including the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as such become available.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that measure is in the plans for the project. 2. EBMUD to verify food waste preprocessing diesel equipment uses diesel particulate filters or other appropriate measures to reduce DPM emissions 	<ol style="list-style-type: none"> 1. D 2. O
AIR-6	Odor Emissions During Project Operation	AIR-6a	<p>Mitigation Measure AIR-6a: Odor Controls in Food Waste Preprocessing Facility EBMUD shall include the following measures in contract specifications:</p> <ul style="list-style-type: none"> • Roof vents on the proposed building or point sources should be designed to accommodate odor controls in the event that odor problems occur in the future and controls are ultimately needed. • All food waste shall be processed within 48 hours of receipt or protocols shall be implemented to minimize nuisance odor problems and ensure compliance with applicable BAAQMD air permit requirements. 	EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that measure is in the plans for the project. 2. EBMUD to verify food waste preprocessing minimizes nuisance odor problems. 	<ol style="list-style-type: none"> 1. D 2. O
		AIR-6b	<p>Mitigation Measure AIR-6b: Odor Controls on Other Land Use Master Plan Elements All short- and long-term Land Use Master Plan projects shall be reviewed for odor potential during the design phase. Operational and design odor control measures shall be incorporated into the project to minimize off-site odor impacts and ensure compliance with BAAQMD air permit fence-line monitoring limits. Odor controls that could be implemented where appropriate include: activated carbon filter/carbon adsorption, biofiltration/bio trickling filters, fine bubble aerator, hooded enclosures, wet and dry scrubbers, caustic and hypochlorite chemical scrubbers, ammonia scrubber, energy efficient blower system, thermal oxidizer, capping/covering storage basins and anaerobic ponds, mixed flow exhaust, wastewater circulation technology, and exhaust stack and vent location with respect to receptors.</p>	EBMUD (MP)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that measure is in the design plans for the project. 	<ol style="list-style-type: none"> 1. D

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3.4 BIOLOGICAL RESOURCES							
BIO-1	Potential to Interfere with Wildlife Movement or Impede the Use of Native Wildlife Nursery Sites	BIO-1	<p>Mitigation Measure BIO-1: Protection of Nesting Birds</p> <p>To the extent practicable, project construction activities including tree removal/pruning and demolition will occur outside of the generally accepted nesting season (February 1 to August 31). If tree removal cannot be completed between September 1 and January 31, and it is not feasible to avoid starting construction during the nesting season, then the following measures will be taken:</p> <ul style="list-style-type: none"> a) No more than two weeks before the initiation of construction/demolition activities that would commence between February 1 and August 31, a nesting bird survey will be conducted within 250 feet of the project site by a qualified biologist. If active nests are observed, buffer zones will be established around the nests, with a size acceptable to the California Department of Fish and Game. Construction activities will not occur within buffer zones until young have fledged or the nest is otherwise abandoned. b) If construction/demolition is halted for more than two weeks during the nesting season, then additional surveys will be conducted as above. c) Nests that are established during construction/demolition will be protected from direct project impact (e.g., trees or a buffer area around the nests shall be flagged and avoided). <p>Mitigation Measure BIO-2: Replacement of Protected Trees</p> <p>EBMUD will replace each tree that is removed for this project and that is considered a "protected tree" under the City of Oakland Tree Preservation and Removal Ordinance. The replacement tree (e.g., 5-gallon size) will be planted on site in a suitable location at the MWWT/TP West End property.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that measure is in the construction specifications for the project. 2. Confirm that trees are removed or surveys performed before nesting season. 3. Confirm bird protection is implemented as needed during construction 	<ol style="list-style-type: none"> 1. D 2. PC 3. C
BIO-2	Potential for Conflict with Local Policies or Ordinances Protecting Biological Resources, Such as Tree Preservation Policy or Ordinance	BIO 2		EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that measure is in the construction specifications for the project. 2. Confirm that trees have been replaced 	<ol style="list-style-type: none"> 1. D 2. DC

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3.5 CULTURAL RESOURCES							
CUL-1	Potential to Cause a Substantial Adverse Change in the Significance of a Unique Archaeological Resource	CUL-1	<p>Mitigation Measure CUL-1: Recovery of Buried Cultural Resources</p> <p>If previously unidentified cultural materials are unearthed during construction, EBMUD will halt work in that area until a qualified archaeologist can assess the significance of the find. Prehistoric materials might include obsidian and chert flaked-stone tools (e.g., projectile points, knives, scrapers) or toolmaking debris; culturally darkened soil ("midden") containing heat-affected rocks, artifacts, or shellfish remains; stone milling equipment (e.g., mortars, pestles, handstones, or milling slabs); battered stone tools, such as hammerstones and pitted stones. Historic-era materials might include stone, concrete, or adobe footings and walls; filled wells or privies; and deposits of metal, glass, and/or ceramic refuse. If any find is determined to be significant, EBMUD and the archaeologist will determine the appropriate avoidance measures or other appropriate mitigation. All significant cultural materials recovered will be, as necessary and at the discretion of the consulting archaeologist, subject to scientific analysis, professional museum curation, and documentation according to current professional standards. In considering any suggested measures proposed by the consulting archaeologist in order to mitigate impacts to historical resources or unique archaeological resources, EBMUD will determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, project design, costs, and other considerations.</p> <p>If avoidance is infeasible, other appropriate measures (e.g., data recovery) will be instituted. Work may proceed on other parts of the project while mitigation for historical resources or unique archaeological resources is being carried out.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for the project.</p> <p>2. Confirm that any cultural resources uncovered during construction are treated in accordance with recommendation from a consulting archaeologist</p>	<p>1. D</p> <p>2. C</p>
CUL-2	Potential to Cause a Substantial Adverse Change in the Significance of a Paleontological Resource	CUL-2	<p>Mitigation Measure CUL-2: Recovery of Buried Paleontological Resources</p> <p>In the event that paleontological resources are discovered, EBMUD will notify a qualified paleontologist. The paleontologist will document the discovery as needed, evaluate the potential resource, and assess the significance of the find under the criteria set forth in CEQA Guidelines § 15064.5. If a breas¹ or other fossil is discovered during construction, excavations within 50 feet of the find will be temporarily halted or diverted until the discovery is examined by a qualified paleontologist. The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find.</p> <p>If EBMUD determines that avoidance is not feasible, the paleontologist will prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important. The plan will be submitted to EBMUD for review and approval prior to implementation.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for the project.</p> <p>2. Confirm that any paleontological resources uncovered during construction are treated in accordance with recommendation from a consulting paleontologist</p>	<p>1. D</p> <p>2. C</p>

¹ A seep of natural petroleum that has trapped extinct animals, thus preserving and fossilizing their remains.

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CUL-3	Potential to Disturb Human Remains	CUL-3	Mitigation Measure CUL-3: Recovery of Discovered Human Remains In the event human burials are encountered, EBMUD will halt work in the vicinity and notify the Alameda County Coroner and contact an archaeologist to evaluate the find. If human remains are of Native American origin, the Coroner will notify the Native American Heritage Commission (NAHC) within 24 hours of this identification. The NAHC will then identify the person(s) thought to be the Most Likely Descendant of the deceased Native American, who would then help determine what course of action should be taken in dealing with the remains.	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> Confirm that measure is in the construction specifications for the project. Confirm that any burials uncovered during construction are treated in accordance with recommendation from a consulting archaeologist with appropriate notifications 	<ol style="list-style-type: none"> D C 	
3.7 GEOLOGY								
GEO-1	Facility Damage and Exposure of People to Hazards From Strong Seismic Groundshaking	GEO-1	Mitigation Measure GEO-1: Perform Design-Level Geotechnical Evaluations for Seismic Hazards During the design phase for all other Land Use Master Plan elements that require ground-breaking activities, EBMUD will perform site-specific, design-level geotechnical evaluations to identify potential secondary ground failure hazards (i.e., seismically-induced settlement) associated with the expected level of seismic ground shaking. For specific Land Use Master Plan element sites within the MWWTP that have previously been subject to a geotechnical investigation, a geotechnical memorandum shall be prepared to update the previous investigation. The geotechnical analysis will provide recommendations to mitigate those hazards in the final design and, if necessary, during construction. The design-level geotechnical evaluations, based on the site conditions, location, and professional opinion of the geotechnical engineer, may include subsurface drilling, soil testing, and analysis of site seismic response as needed. The geotechnical engineer will review the seismic design criteria of facilities to ensure that facilities are designed to withstand the highest expected peak acceleration, set forth by the CBC for each site. Recommendations resulting from findings of the geotechnical study will be incorporated into the design and construction of proposed facilities. Design and construction for buildings will be performed in accordance with EBMUD's seismic design standards, which meet and/or exceed applicable design standards of the International Building Code.	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> Confirm that geotechnical studies have been conducted as needed. Confirm that any recommendations from geotechnical study are included in plans and specifications. Confirm that construction is conducted in accordance with specifications. 	<ol style="list-style-type: none"> D D C 	
GEO-2	Facility Damage and Exposure of People to Hazards from Liquefaction and Lateral Spreading	GEO-2	Mitigation Measure GEO-2: Perform Design-Level Geotechnical Evaluations for Liquefaction and Other Geologic Hazards During the design phase for all other Land Use Master Plan elements that require ground-breaking activities, EBMUD will perform site-specific design-level geotechnical evaluations to identify geologic hazards and provide recommendations to mitigate those hazards in the final design and during construction. For specific Land Use Master Plan element sites within the MWWTP that have previously been subject to a geotechnical investigation, a geotechnical memorandum shall be prepared to update the previous investigation. The design-level geotechnical evaluations will include the collection of subsurface data for determining liquefaction potential, and appropriate feasible measures will be developed and incorporated into the project design. The performance standard to be used in the geotechnical	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> Confirm that geotechnical studies have been conducted as needed. Confirm that any recommendations from geotechnical study are included in plans and specifications. Confirm that construction is conducted in accordance with specifications. 	<ol style="list-style-type: none"> D D C 	

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			<p>evaluations for mitigating liquefaction hazards will be minimization of the hazards. Measures to minimize significant liquefaction hazards could include the following, unless the site-specific soils analyses dictate otherwise:</p> <ul style="list-style-type: none"> • Densification or dewatering of surface or subsurface soils; • Construction of pile or pier foundations to support pipelines and/or buildings; and • Removal of material that could undergo liquefaction in the event of an earthquake, and replacement with stable material. • If soil needs to be imported, EBMUD would require that the contractor ensure that such imported soil complies with specifications that define the minimum geotechnical properties and analytical quality characteristics that must be met for use of fill material from off-site borrow sources. 				
3.8 GREENHOUSE GAS EMISSIONS							
GHG-1	Greenhouse Gas Construction Emissions	GHG-1	<p>Mitigation Measure GHG-1: GHG Reduction Measures EBMUD shall implement BAAQMD-recommended Best Management Practices (BMPs) for GHG emissions where feasible, which include the following:</p> <ul style="list-style-type: none"> • At least 15 percent of the fleet should be alternative-fueled (e.g., biodiesel, electric) construction vehicles/equipment. • At least 10 percent of building materials should be from local sources. • At least 50 percent of construction waste or demolition materials should be recycled or reused. <p>See also Mitigation Measure AIR-1: Criteria Air Pollutant and Precursor Reduction Measures above.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for the project. 2. Construction contractor to verify that BMPs are implemented.</p>	<p>1. D 2. C</p>
GHG-2	Greenhouse Gas Operational Emissions	GHG-2a	<p>Mitigation Measure GHG-2a: Energy Efficiency Measures Measures GHG 2a and 2b apply to the other Land Use Master Plan elements, as applicable, to reduce overall GHG emissions. Direct and indirect GHG emissions shall be estimated based on the final project design, and energy efficiency measures shall be incorporated into the project as necessary to meet the BAAQMD GHG significance threshold in effect at the time of project implementation.</p>	EBMUD (MP)	EBMUD	<p>1. Confirm that emissions are estimated and efficiency measures are incorporated.</p>	<p>1. D</p>
		GHG-2b	<p>Mitigation Measure GHG-2b: Water Conservation Measures for Land Use Master Plan Projects Non-potable water shall be used wherever feasible for equipment and area wash down to minimize GHG emissions associated with increased water demand.</p>	EBMUD (MP)	EBMUD	<p>1. Confirm that non-potable water is used wherever feasible.</p>	<p>1. O</p>

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3.9 HAZARDS AND HAZARDOUS MATERIALS							
HAZ-3	Hazards to Public Health and the Environment due to a Release of Hazardous Building Materials Present in the Buildings that Would be Demolished	HAZ-3	<p>Mitigation Measure HAZ-3: Hazardous Building Materials Surveys and Abatement</p> <p>For any building not already surveyed for lead, a registered environmental assessor or a registered engineer would perform a lead-based paint survey for the structure prior to reuse or demolition. Adequate abatement practices for lead-containing materials, such as containment and/or removal, would be implemented prior to reuse or demolition of each structure that includes lead-containing materials or lead-based paint. For demolition, any PCB- or DEHP-containing equipment or fluorescent lights containing mercury vapors would also be removed and disposed of properly.</p> <p>If removal of a transformer is required, EBMUD or the owner/operator would retain a qualified professional to determine the PCB content of the transformer oil. For removal, the transformer oil would be pumped out with a pump truck and appropriately recycled or disposed of off site. The drained transformer would be reused or disposed of in accordance with applicable regulations.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> 1. Confirm that hazardous materials surveys have been conducted as needed. 2. Confirm that any recommendations from survey are included in plans and specifications. 3. Confirm that materials are disposed of appropriately 	<ol style="list-style-type: none"> 1. D 2. D 3. C
3.10 HYDROLOGY - WATER QUALITY							
HYD-3	Alteration of the Existing Drainage Pattern in a Manner Which Would Result in Flooding	HYD-3	<p>Mitigation Measure HYD-3: Prepare and Implement a Comprehensive Drainage Plan</p> <p>Prior to expanding the stormwater collection system to treat runoff from the West End property, EBMUD shall prepare and implement a Comprehensive Drainage Plan for the Land Use Master Plan that incorporates measures to ensure that the storm drain system and treatment capacity are not exceeded during peak conditions. The drainage plan shall define operational controls necessary to prevent flooding of the MWWTP headworks and/or release of surface runoff off site.</p>	EBMUD	EBMUD	<ol style="list-style-type: none"> 1. Confirm that Comprehensive Drainage Plan has been prepared. 2. Confirm that any recommendations from plan are included in plans and specifications. 3. Confirm that necessary improvements are constructed 	<ol style="list-style-type: none"> 1. D 2. D 3. C
HYD-5	Inundation Due to a Catastrophic Tsunami or Setche	HYD-5	<p>Mitigation Measure HYD-5: Prepare and Implement a Tsunami Response Plan</p> <p>EBMUD shall prepare and implement a Tsunami Response Plan for the MWWTP site that defines emergency response and coordination procedures. The Tsunami Response Plan shall contain information specific to actions that may be necessary related to receipt of a tsunami watch, warning, or as a result of an actual tsunami along the San Francisco Bay. The first priority of emergency management response shall be the protection of life and property.</p>	EBMUD	EBMUD	<ol style="list-style-type: none"> 1. Confirm that Tsunami Response Plan for the MWWTP site has been prepared and implemented 	<ol style="list-style-type: none"> 1. O

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3.12. NOISE							
NOI-1	Disturbance from Temporary, Construction-Related Noise Increases in Excess of Noise Ordinance	NOI-1	<p>Mitigation Measure NOI-1: Implement Noise Controls</p> <p>EBMUD's Construction Specifications (013544-3.4) require compliance with local noise ordinances, and measures that shall be employed to meet applicable City of Oakland Noise Ordinance noise limits include the following:</p> <ul style="list-style-type: none"> Pile driving activities and operation of other types of impact equipment such as jackhammers should be limited to the daytime hours (7 a.m. to 7 p.m. on weekdays); If impact pile drivers must be used near the eastern MWWTP boundary, they should not be operated for longer than 10 days to the extent feasible. If pile driving must occur for longer than 10 days near this boundary, sonic or vibratory pile drivers should be used if feasible; "Quiet" pile driving technology (such as pre-drilling of piles, the use of more than one pile driver to shorten the total pile driving duration) should be employed where feasible (where geotechnical and structural requirements allow); Pile driving activities with all construction projects at the MWWTP should be coordinated to ensure that these activities do not overlap; Best available noise control techniques (including mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds) will be used for all equipment and trucks as necessary; and If any construction activities must occur during the nighttime hours (7 p.m. to 7 a.m. on weekdays, 8 p.m. to 9 a.m. on weekends), operation of noisier types of equipment should be prohibited as necessary to meet ordinance noise limits. 	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for the project.</p> <p>2. Construction contractor to verify that construction activities comply with specifications.</p>	1. D 2. C
NOI-2	Temporary Disturbance due to Construction-Related Vibration	NOI-2	<p>Mitigation Measure NOI-2: Implement Vibration Controls</p> <p>To ensure that adjacent freeway structures and future commercial structures to the south are not subject to cosmetic damage, EBMUD shall ensure that any future pile driving activities associated with Master Plan projects do not exceed the 0.2 in/sec PPV threshold at these structures. Measures that could be employed to meet this performance standard include using sonic or vibratory pile drivers where feasible or pre-drilling pile holes.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for projects.</p> <p>2. Construction contractor to verify that construction activities comply with specifications.</p>	1. D 2. C
NOI-3	Increases in Ambient Noise Levels due to Operational Noise and Vibration	NOI-3	<p>Mitigation Measure NOI-3: Employ Noise Controls for Stationary Equipment</p> <p>EBMUD shall use best available noise control techniques (including mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds) as necessary on stationary equipment associated with all Master Plan projects in order to comply with applicable City of Oakland Noise Ordinance noise limits, adjusted to reflect ambient noise levels occurring at the time of project implementation (under 2010 conditions, the nighttime noise limit is 54 dBA [Leq] at receiving residential uses to the east and 73 dBA [Leq] at future receiving commercial uses to the south).</p>	EBMUD (MP)	EBMUD	<p>1. Confirm that measure is in the design plans for projects.</p> <p>2. Confirm best available noise control techniques are used on stationary equipment.</p>	1. D 2. C

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3.14 TRANSPORTATION							
TRA-1	Temporary Construction-Related Increase in Traffic	TRA-1	<p>Measure TRA-1: Construction Traffic Management Plan EBMUD would implement the following measures during project construction at the local intersections outside the MWWTP property:</p> <p>EBMUD and the construction contractor would coordinate with the appropriate City of Oakland agencies to determine traffic management strategies to reduce, to the maximum extent feasible, traffic congestion during construction of this project and other nearby projects that could be simultaneously under construction. EBMUD would develop a construction management plan for submittal to the Planning and Zoning Division, the Building Services Division, and the Transportation Services Division. The plan would include at least the following items and requirements:</p> <ol style="list-style-type: none"> A set of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak traffic hours and designated construction access routes; Notification procedures for adjacent property owners and public safety personnel regarding when major deliveries would occur; and A process for responding to, and tracking, complaints pertaining to construction activity, including identification of an on-site complaint manager. The manager shall determine the cause of the complaints and shall take prompt action to correct the problem. 	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<ol style="list-style-type: none"> Confirm that measure is in the construction specifications for the project. Construction contractor to verify compliance with comprehensive traffic control measures. 	<ol style="list-style-type: none"> D C
TRA-7	Safety Hazards Due to Conflicts with Rail Transport	TRA-7a TRA-7b	<p>Measure TRA-7a: Railroad Crossing Safety for New Rail Spur EBMUD shall install pavement markings and warning signs along Engineers Road where the new rail spur would cross to enter the internal driveway for the biodiesel production facility. Pavement markings and warning signs shall conform to standards set forth in the <i>California Manual on Uniform Transportation Devices</i> (Caltrans 2010).</p> <p>Measure TRA-7b: Coordination with Burlington Northern Santa Fe (BNSF) EBMUD and its rail contractor(s) shall work with BNSF during the design phase to obtain the necessary permits and construction approvals for the rail spur and connection with the existing BNSF rail line.</p>	EBMUD (MP) EBMUD/BD Owner (BD)	EBMUD	<ol style="list-style-type: none"> Confirm that measure is in the construction specifications for the project. Confirm that markings and signs have been installed. 	<ol style="list-style-type: none"> D C
3.15 UTILITIES							
UTIL-1	Exceed Wastewater Treatment Requirements of the San Francisco Bay Regional Water Quality Control Board		See Mitigation Measure HYD-3: Prepare and Implement a Comprehensive Drainage Plan above.				
UTIL-3	Require Construction of New Stormwater Drainage Facilities or Expansion of Existing Facilities		See Mitigation Measure HYD-3: Prepare and Implement a Comprehensive Drainage Plan above.				

EAST BAY MUNICIPAL UTILITY DISTRICT LAND USE MASTER PLAN ENVIRONMENTAL IMPACT REPORT
MITIGATION MONITORING AND REPORTING PROGRAM

Impact No.	Impact Summary	Mitigation No.	Mitigation Measure (Exact Text)	Implementation and Reporting		Monitoring and Reporting Program	
				Responsible Party	Reviewing & Approval Party	Monitoring and Reporting Actions	Implementation Schedule - Design (D) - Pre-Construction (PC) - During Construction (C) - Operational (O)
UTIL-6	Temporary Disruption of Utilities or Services Due to Construction-Related Activities	UTIL-6	<p>Mitigation Measure UTIL-6 Coordinate Relocation and Interruptions of Service with Utility Providers During Construction</p> <p>The construction contractor will be required to verify the nature and location of underground utilities before the start of any construction that would require excavation. The contractor will be required to notify and coordinate with public and private utility providers at least 48 hours before the commencement of work adjacent to any utility. The contractor will be required to notify the service provider in advance of service interruptions to allow the service provider sufficient time to notify customers. The contractor will be required to coordinate timing of interruptions with the service providers to minimize the frequency and duration of interruptions.</p>	EBMUD (MP) EBMUD/BD Owner (BD) EBMUD/FW Owner (FW)	EBMUD	<p>1. Confirm that measure is in the construction specifications for the project.</p> <p>2. Construction contractor to verify coordination with public and private utility providers to locate and identify underground utilities.</p> <p>3. Construction contractor to verify coordination with public and private utility providers at least 48 hours before the commencement of work adjacent to any utility.</p>	<p>1. D</p> <p>2. PC</p> <p>3. C</p>

Notes: MP – Land Use Master Plan, FW – Food Waste Preprocessing Facility, BD – Biodiesel Facility