EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)						
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed		
MITIGATION MEASURES FOR THE TREASURE ISLAND/YERBA BUENA ISL	LAND PROJECT					
Cultural and Paleontological Resources (Archeological Resources) Mitigation Measur	es					
<b>Mitigation Measure M-CP-1: Archaeological Testing, Monitoring, Data Recovery and Reporting.</b> Based on a reasonable presumption that archaeological resources may be present within the Redevelopment Plan Project Area, the following measures shall be undertaken to avoid any potentially significant adverse effect from the proposed project on buried or submerged historical resources. The project sponsors shall retain the services of an archaeological consultant from the pool of qualified archaeological consultants maintained by the Planning Department archaeologist. The archaeological consultant shall undertake an archaeological testing program as specified herein. In addition, a professionally qualified geo-archaeologist shall undertake a geo-archaeological assessment of the project area. The archaeological consultant shall be available to conduct an archaeological monitoring and/or data recovery program if required pursuant to this measure. The archaeological consultant's work shall be conducted in accordance with this measure and the requirements of the ARDTP (Archeo-Tec, Archaeological Research Design and Treatment Plan, Treasure Island Redevelopment Plan Project, City and County of San Francisco, CA, October 2009) at the direction of the Environmental Review Officer ("ERO"). In instances of inconsistency between the requirements of this archaeological mitigation measure shall prevail. All plans and reports prepared by the consultant as specified herein shall be submitted first and directly to the ERO for review and comment, and shall be considered draft reports subject to revision until final approval by the ERO. Archaeological monitoring and/or data recovery program sequired by this measure could suspend construction of the project for a maximum of four weeks. At the direction of the ERO, the suspension is the only feasible means to reduce to a less-thansignificant level of potential effects on a significant archaeological resource as defined in <i>CEQA Guidelines</i> Section 15064.5 (a)(c).	Project sponsors* to retain qualified professional consultants (archaeologist and geo-archaeologist) from the pool of consultants maintained by the Planning Department	Prior to commencement of soil-disturbing activities, submittal of reports for approval by Planning Department	(See below regarding archaeologist's reports.) Geo-archeological consultant to submit geo- archaeological assessment of the project area to Planning Department with a copy to TIDA			
Archaeological Testing Program						
The archaeological consultant shall prepare and submit to the ERO for review and approval an archaeological testing plan ("ATP"). The archaeological testing program shall be conducted in accordance with the approved ATP. The ATP shall identify the property types of the expected archaeological resource(s) that potentially could be adversely	Archaeological consultant to undertake	Archaeological Testing Plan to be submitted to and approved by ERO	Consultant to prepare ATP in consultation with the ERO.			

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
affected by the proposed project, the testing method to be used, and the locations recommended for testing. The purpose of the archaeological testing program will be to determine, to the extent possible, the presence or absence of previously undiscovered archaeological resources and to identify and to evaluate whether any archaeological resource encountered on the site constitutes an historical resource under CEQA.	archaeological testing program	prior to testing, which is to be prior to any excavation for each phase of site preparation or construction		
At the completion of the archaeological testing program, the archaeological consultant shall submit a written report of the findings to the ERO. If based on the archaeological testing program the archaeological consultant finds that significant archaeological resources may be present, the ERO, in consultation with the archaeological consultant, shall determine if additional measures are warranted. Additional measures that may be undertaken include additional archaeological testing, archaeological monitoring, and/or an archaeological data recovery program. If the ERO determines that a significant archaeological resource is present and that the resource could be adversely affected by the proposed project, at the discretion of the project sponsors, either:	Archaeological consultant to submit results of testing, and in consultation with ERO, determine whether redesign or a data recovery program is warranted	At the completion of the archaeological testing program	Consultant to submit report of findings from testing program to Planning Department with a copy to TIDA	
(A) The proposed project shall be re-designed so as to avoid any adverse effect on the significant archaeological resource; or				
(B) A data recovery program shall be implemented, unless the ERO determines that the archaeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible, in which case interpretive reuse shall be required.				
Archaeological Monitoring Program (AMP)				
If the ERO in consultation with the archaeological consultant determines that an archaeological monitoring program shall be implemented, the archaeological monitoring program shall minimally include the following provisions:				
• The archaeological consultant, project sponsors, and ERO shall meet and consult on the scope of the AMP reasonably prior to any project-related soils-disturbing activities commencing. The ERO in consultation with the archaeological consultant shall determine what project activities shall be archaeologically monitored. In most cases, any soils-disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archaeological monitoring because of the risk these activities pose to potential archaeological resources and to their depositional context;	Project sponsors and their archaeologist(s), in consultation with ERO and	Prior to any demolition or removal activities, and during construction at any location	Consultant to prepare Archaeological Monitoring Program (AMP) in consultation with the ERO.	

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)					
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
• The archaeological consultant shall advise all project contractors to be on the alert for evidence of the presence of the expected resource(s), of how to identify the evidence of the expected resource(s), and of the appropriate protocol in the event of apparent discovery of an archaeological resource;	Archeological monitor and project sponsors' and their construction	As construction contractors are retained, prior to any soils- disturbing activities	Archaeological consultant to advise all construction contractors		
• The archaeological monitor(s) shall be present on the project site according to a schedule agreed upon by the archaeological consultant and the ERO until the ERO has, in consultation with the project archaeological consultant, determined that project construction activities could have no effects on significant archaeological deposits;	contractors	Schedules for monitoring to be established in the AMP, in consultation with ERO	Archaeological monitor(s) to observe construction according to the schedules established in the AMP for each site		
• The archaeological monitor shall record and be authorized to collect soil samples and artifactual/ecofactual material as warranted for analysis;					
• If an intact archaeological deposit is encountered, all soils-disturbing activities in the vicinity of the deposit shall cease. The archaeological monitor shall be empowered to temporarily redirect demolition/excavation/pile driving/construction activities and equipment until the deposit is evaluated. If in the case of pile-driving activity (foundation, shoring, etc.), the archaeological monitor has cause to believe that the pile-driving activity may affect an archaeological resource, the pile-driving activity shall be terminated until an appropriate evaluation of the resource has been made in consultation with the ERO. The archaeological			Archaeological monitor(s) shall temporarily redirect construction activities as necessary and consult with ERO		
consultant shall immediately notify the ERO of the encountered archaeological deposit. The archaeological consultant shall make a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, and present the findings of this assessment to the ERO.	Archaeological consultant	Upon completion of soil- disturbing activities on each site	Written report of findings of each monitoring program to be submitted to		
Whether or not significant archaeological resources are encountered, the archaeological consultant shall submit a written report of the findings of the monitoring program to the ERO.			ERO with a copy to TIDA		
Archaeological Data Recovery Program					
The archaeological data recovery program shall be conducted in accord with an archaeological data recovery plan ("ADRP"). The archaeological consultant, project sponsors, and ERO shall meet and consult on the scope of the ADRP prior to preparation of a draft ADRP. The archaeological consultant shall submit a draft ADRP to the ERO.	Project sponsors and their archaeologist, in consultation with ERO				

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MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed		
The ERO shall review the draft ARDP to ensure adherence to this mitigation measure and the standards and requirements set forth in the ARDTP. The ADRP shall identify how the proposed data recovery program will preserve the significant information the archaeological resource is expected to contain. That is, the ADRP will identify what scientific/historical research questions are applicable to the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the resource that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if non-destructive methods are practical.						
The scope of the ADRP shall include the following elements:		Prior to any demolition or removal activities,				
• Field Methods and Procedures. Descriptions of proposed field strategies, procedures, and operations.		approval of interpretative materials to occur.				
<ul> <li>Cataloguing and Laboratory Analysis. Description of selected cataloguing system and artifact analysis procedures.</li> </ul>			Consultant to prepare			
• Discard and De-accession Policy. Description of and rationale for field and post-field discard and de-accession policies.			Archaeological Data Recovery Program in consultation with ERO.			
• Interpretive Program. Consideration of an on-site/off-site public interpretive program during the course of the archaeological data recovery program.			Final ADRP to be submitted to ERO			
• Security Measures. Recommended security measures to protect the archaeological resource from vandalism, looting, and non-intentionally damaging activities.		Considered complete once verification of donation of occurs.	with a copy to TIDA			
• Final Report. Description of proposed report format and distribution of results.						
• Curation. Description of the procedures and recommendations for the curation of any recovered data having potential research value, identification of appropriate curation facilities, and a summary of the accession policies of the curation facilities.						
Human Remains and Associated or Unassociated Funerary Objects	Project sponsors and	Ongoing throughout soils-	If applicable, upon			
The treatment of human remains and of associated or unassociated funerary objects discovered during any soils-disturbing activity shall comply with applicable State and Federal laws. This shall include immediate notification of the Coroner of the City and County of San Francisco and in the event of the Coroner's determination that the human	their archaeologist(s), in consultation with ERO	disturbing activities	discovery of human remains and/or associated or unassociated funerary objects, the consultant shall			

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)						
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed		
remains are Native American remains, notification of the California State NAHC who shall appoint a MLD (Pub. Res. Code Sec. 5097.98). The archaeological consultant, project sponsors, and MLD shall make all reasonable efforts to develop an agreement for the treatment of, with appropriate dignity, human remains and associated or unassociated funerary objects (CEQA Guidelines Sec. 15064.5(d)). The agreement should take into consideration the appropriate excavation, removal, recordation, analysis, custodianship, curation, and final disposition of the human remains and associated or unassociated funerary objects.			notify the Coroner of the City and County of San Francisco, and in the event of the Coroner's determination that the human remains, notification of the California State Native American Heritage Commission who shall appoint a Most Likely Descendant (MLD) who shall make reasonable efforts to develop an agreement for the treatment of human remains and/or associated or unassociated funerary objects.			
The archaeological consultant shall submit a Draft Final Archaeological Resources Report (FARR) to the ERO that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological testing/monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource shall be provided in a separate removable insert within the final report.	Project sponsors and their archaeologist, in consultation with ERO	Upon completion of construction at a given site	Consultant to prepare draft and final Archeological Resources Report reports. The ERO to review and approve the Final Archeological Resources			
Once approved by the ERO, copies of the FARR shall be distributed as follows: California Archaeological Site Survey Northwest Information Center (NWIC) shall receive one (1) copy and the ERO shall receive a copy of the transmittal of the FARR to the NWIC. The Major Environmental Analysis division of the Planning Department shall receive two copies (bound and unbound) of the FARR, and one unlocked, searchable PDF copy on a compact disk. MEA shall receive a copy of any formal site recordation forms (CA DPR 523 series) and/or documentation for nomination to the National Register of Historic Places/California Register of Historical Resources. In instances of high public interest in or the high interpretive value of the resource, the ERO may require a different final report content, format, and distribution than that presented above.		Upon approval of Final Archaeological Resources Report by ERO	Report Consultant to transmit final, approved documentation to NWIC, the Planning Department., and TIDA			

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
Mitigation Measure M-CP-3: Paleontological Resources Monitoring and Mitigation Program. The project sponsor shall retain the services of a qualified paleontological consultant having expertise in California paleontology to design and implement a Paleontological Resources Monitoring and Mitigation Program. The PRMMP shall include a description of when and where construction monitoring would be required; emergency discovery procedures; sampling and data recovery procedures; procedure for the preparation, identification, analysis, and curation of fossil specimens and data recovered; preconstruction coordination procedures; and procedures for reporting the results of the monitoring program. The PRMMP shall be consistent with the Society for Vertebrate Paleontology Standard Guidelines for the mitigation of construction-related adverse impacts to paleontological resources and the requirements of the designated repository for any fossils collected. During construction, earth-moving activities shall be monitored by a qualified paleontological consultant having expertise in California paleontology in the areas where these activities have the potential to disturb previously undisturbed native sediment or sedimentary rocks. Monitoring need not be conducted in areas where the ground has been previously disturbed, in areas of artificial fill, in areas underlain by nonsedimentary rocks, or in areas where exposed sediment would be buried, but otherwise undisturbed. This, by definition, would exclude all of Treasure Island; accordingly, this mitigation measure would apply only to work on Yerba Buena Island. The consultant's work shall be conducted in accordance with this measure and at the direction of the City's ERO. Plans and reports prepared by the consultant shall be submitted first and directly to the ERO for review and comment, and shall be considered draft reports subject to revision until final approval by the ERO. Paleontological monitoring and/or data recovery programs required by this measure could suspend	Project sponsors to retain appropriately qualified consultant to prepare PRMMP, carry out monitoring, and reporting for each excavation site on Yerba Buena Island	Prior to and during construction on each site involving excavation on Yerba Buena Island. The project paleontological consultant to consult with the ERO as indicated; completed when ERO accepts final report	ERO to approve final PRMMP. Consultant shall provide brief monthly reports to ERO during monitoring or as identified in the PRMMP, with copies to TIDA, and notify the ERO immediately if work should stop for data recovery during monitoring. The ERO to review and approve the final documentation as established in the PRMMP	
construction of the Proposed Project for as short a duration as reasonably possible and in no event for more than a maximum of four weeks. At the direction of the ERO, the suspension of construction can be extended beyond four weeks only if such a suspension is the only feasible means to reduce potential effects on a significant paleontological resource as previously defined to a less-than-significant level.				
Cultural and Paleontological Resources (Historical Resources) Mitigation Measures	•		·	
Mitigation Measure M-CP-6: Review of Alterations to the Contributing Landscape of Building 1. During the design review process, TIDA is required, according to draft <i>Design for Development</i> Standard T5.10.1, to find that Building 1's rehabilitation is consistent with the Secretary's Standards. In making that finding, TIDA shall also consider any proposed alterations to and within the contributing	TIDA in consultation with qualified professional preservation architect,	During the design review process, prior to TIDA's approval of design for Building 1	TIDA	

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
landscape areas identified by the HRE as contributing to the CRHR eligibility of Building 1. TIDA shall not approve a design proposal for Building 1 unless it makes a finding that any such alterations, when taken together with the alterations and additions to Building 1 itself, comply with the Secretary's Standards.	architectural historian, and/or planner experienced with applying Secretary's Standards to adaptive reuse projects			
<b>Mitigation Measure M-CP-7: Review of New Construction within the</b> <b>Contributing Landscape West of Building 1</b> . During the design review process, TIDA is required, according to the draft <i>Design for Development</i> (Standard T5.10.1), to find that Building 1's rehabilitation is consistent with the Secretary's Standards. In making that finding, TIDA shall also consider proposed new construction west of Building 1 within its associated contributing landscape areas. TIDA shall not approve a design proposal for Building 1 unless it makes a finding that any such new construction, when taken together with the alterations and additions to Building 1 itself, comply with the Secretary's Standards.	TIDA in consultation with qualified preservation specialist	During the design review process, prior to TIDA's approval of design for Building 1	TIDA	
<ul> <li>Mitigation Measure M-CP-9: Documentation and Interpretation</li> <li>Documentation</li> <li>The project sponsors shall retain a professional who meets the Secretary of the Interior's Professional Qualifications Standards for Architectural History to prepare written and photographic documentation of the historical resource.</li> <li>The documentation for the property shall be prepared based on the National Park Service's Historic American Building Survey ("HABS") / Historic American Engineering Record ("HAER") Historical Report Guidelines. This type of documentation is based on a combination of both HABS/HAER standards (Levels II and III) and the National Park Service's policy for photographic documentation as outlined in the National Register of Historic Places and National Historic Landmarks ("NHL") Survey Photo Policy Expansion.</li> <li>The written historical data for this documentation shall follow HABS/HAER Level I standards. The written data shall be accompanied by a sketch plan of the property. Efforts should also be made to locate original construction drawings or plans of the property during the period of significance. If located, these drawings should be photographed, reproduced, and included in the dataset. If construction drawings or plans or plans cannot be located, as-built drawings shall be produced.</li> </ul>	Project sponsors to retain qualified professional consultant. Consultant to prepare documentation TIDA shall review, request revisions if appropriate, and ultimately approve documentation	Prior to any action to demolish or remove the Damage Control Trainer, Consultant to submit HABS/HAER/HALS Guidelines documentation for review by TIDA.	Consultant to submit draft and final documentation prepared pursuant to HABS/HAER/HALS Guidelines to TIDA for review and approval. Following approval of documentation, consultant to transmit documentation to the SF History Center in SF Library, TIDA, Planning Department, and NWIC.	

#### **EXHIBIT C:** MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures) **Responsibility for Monitoring/Reporting** Status/Date **MEASURES ADOPTED AS CONDITIONS OF APPROVAL** Schedule Implementation Responsibility Completed digital photography is used, the ink and paper combinations for printing photographs must be in compliance with NRHP-NHL Photo Policy Expansion and have a permanency rating of approximately 115 years. Digital photographs will be taken as uncompressed, TIF file format. The size of each image will be 1600x1200 pixels at 330 pixels per inch or larger, color format, and printed in black and white. The file name for each electronic image shall correspond with the index of photographs and photograph label. Photograph views for the dataset shall include (1) contextual views; (2) views of each side of each building and interior views, where possible; (3) oblique views of buildings; and (4) detail views of character-defining features, including features of the interiors of some buildings. All views shall be referenced on a photographic key. This photographic key shall be on a map of the property and shall show the photograph number with an arrow to indicate the direction of the view. Historic photographs shall also be collected, reproduced, and included in the dataset. All written and photographic documentation of the historical resource shall be approved by TIDA prior to any demolition and removal activities. The project sponsors shall transmit such documentation to the San Francisco History Center of the San Francisco Public Library, and to the Northwest Information Center of the California Historical Information Resource System. Interpretation The project sponsors shall provide a permanent display of interpretive materials Prior to demolition or TIDA TIDA to establish concerning the history and architectural features of the historical resource within public location(s), media, removal activities spaces of Treasure Island. The specific location, media, and other characteristics of and characteristics of such interpretive display shall be approved by TIDA prior to any demolition or removal the display. activities. Project sponsors and their architectural historian to prepare the display

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)					
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
Transportation Mitigation Measures					
<b>Mitigation Measure M-TR-1: Construction Traffic Management Program.</b> The project sponsors shall develop and implement a Construction Traffic Management Plan ("CTMP"), consistent with the standards and objectives stated below and approved by TIDA, designed to anticipate and minimize transportation impacts of various construction activities associated with the Proposed Project. The Plan shall disseminate appropriate information to contractors and affected agencies with respect to coordinating construction activities to minimize overall disruptions and	Project sponsors for each subphase, and their construction contractor(s) to prepare CTMP TIDA to coordinate with other City	Prepare CTMP and submit for approval prior to construction of the first Sub-Phase of the first Major Phase, to be updated for each subsequent Sub-Phase	Construction contractors to report to TIDA, San Francisco Metropolitan Transportation Authority, and Department of Public Works, with copies to Planning Department, and		
ensure that overall circulation on the Islands is maintained to the extent possible, with particular focus on ensuring pedestrian, transit, and bicycle connectivity and access to the Bay and to recreational uses to the extent feasible. The CTMP shall supplement and expand, rather than modify or supersede, any manual, regulations, or provisions set forth by SFMTA, Department of Public Works ("DPW"), or other City departments and agencies.	agencies and approve CTMP for each sub- development phase Construction contractors to disseminate		TITMA		
<ul> <li>Specifically, the CTMP shall:</li> <li>Identify construction traffic management best practices in San Francisco, as well as other jurisdictions that, although not being implemented in the City, could provide valuable information for a project of the size and characteristics of Treasure Island and Yerba Buena Island.</li> <li>As applicable, describe procedures required by different departments and/or agencies in the City for implementation of a Construction Traffic Management Plan, such as reviewing agencies, approval processes, and estimated timelines. For example: <ul> <li>The construction contractor will need to coordinate temporary and permanent changes to the transportation network on Treasure Island and Yerba Buena Island with TIDA. Once Treasure Island streets are accepted as City streets, temporary traffic and transportation changes must be coordinated through the SFMTA's Interdepartmental Staff Committee on Traffic and Transportation ("ISCOTT") and will require a public meeting. As part of this process, the CTMP may be reviewed by SFMTA's Transportation Advisory Committee ("TASC") to resolve internal differences between different transportation</li> </ul></li></ul>	appropriate information from the CTMP to employees and subcontractors. Project sponsors for each Sub-Phase and their construction contractor to implement approved CTMP, including each of the bulleted items				
<ul> <li>modes.</li> <li>For construction activities conducted within Caltrans right-of-way, Caltrans Deputy Directive 60 (DD-60) requires a separate Transportation Management</li> </ul>		In advance of construction activities in Caltrans	Construction contractors and permit applicants to		

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)					
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
Plan and contingency plans. These plans shall be part of the normal project development process and must be considered during the planning stage to allow for the proper cost, scope and scheduling of the TMP activities on Caltrans right-of-way. These plans should adhere to Caltrans standards and guidelines for stage construction, construction signage, traffic handling, lane and ramp closures and TMP documentation for all work within Caltrans right-of-way.		right-of-way	coordinate with Caltrans and submit Certification Checklist forms to Caltrans when appropriate		
• Changes to transit lines would be coordinated and approved, as appropriate, by SFMTA, AC Transit, and TITMA. The CTMP would set forth the process by which transit route changes would be requested and approved. Require consultation with other Island users, including the Job Corps and Coast Guard, to assist coordination of construction traffic management strategies. The project sponsors shall proactively coordinate with these groups prior to developing their CTMP to ensure the needs of the other users on the Islands are addressed within the Construction Traffic Management Plan.	Project sponsors and construction contractor(s)	Prior to completion of CTMP and during construction	Project sponsors to report to SFMTA, AC-Transit, and TITMA		
• Identify construction traffic management strategies and other elements for the Proposed Project, and present a cohesive program of operational and demand management strategies designed to maintain acceptable levels of traffic flow during periods of construction activities. These include, but are not limited to, construction strategies, demand management activities, alternative route strategies, and public information strategies. For example, the project sponsors may develop a circulation plan for the Island during construction to ensure that existing users construct through the construction pane without substantial dismutien	Project sponsors and construction contractor(s)	Prior to completion of CTMP and during construction			
<ul> <li>can clearly navigate through the construction zones without substantial disruption.</li> <li>Require contractors to notify vendors that STAA trucks larger than 65 feet exiting from the eastbound direction of the Bay Bridge may only use the off-ramp on the east side of Yerba Buena Island.</li> </ul>	Construction contractor(s)	When contracting with vendors	Construction contractor(s) to report vendor notifications to TIDA		

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
<ul> <li>Mitigation Measure M-TR-24: Provide Transit Only Lane between First Street on Treasure Island and the transit and emergency vehicle-only westbound Bay Bridge on-ramp. Implementation of Mitigation Measure M-TR-24 would only be triggered if the extent of actual vehicle queuing impacts the proposed Muni line 108-Treasure Island on Treasure Island Road and creates delays for Muni buses accessing the westbound transit-only on-ramp. As such, throughout the life of the project, the TITMA, in consultation with SFMTA and using SFMTA's methodology, shall monitor the length and duration of potential queues on Treasure Island Road and the associated delays to Muni service. If the queues between First Street and the westbound on-ramp on the west side of Yerba Buena Island result in an operational delay to Muni service equal to or greater than the prevailing headway during the AM, PM or Saturday peak periods, SFMTA, in consultation with TITMA, shall implement a southbound transit-only lane between First Street on Treasure Island and the transit and emergency vehicle-only westbound Bay Bridge on-ramp. The implementation of a transit-only lane between First Street on Treasure would entail the following:</li> <li>Elimination or reduction of the proposed median on Treasure Island Road between First Street and just south of Macalla Road; and</li> <li>Elimination of the proposed southbound Class II bicycle lane on Treasure Island Road and a small portion of Hillcrest Road south of the Macalla Road intersection, would remain. Bicyclists who use the Class I path to the look up point and continue on Treasure Island Road connecting Treasure Island Road to connect between the lane with traffic, similar to other roadways where bicycle lanes are not provided. Bicyclists would still be able to use Class I bicycle paths and the spoese proposed on Macalla Road to connect between the lane with traffic, similar to other roadways where bicycle lanes are not provided. Bicyclists would still be able to use Class I bicycle paths and Clas</li></ul>	TITMA to carry out monitoring Project sponsors and sponsors' construction contractor to carry out restriping pursuant to SFMTA requirements and standards if/when determined necessary	TITMA, in consultation with SFMTA shall monitor the length and duration of potential queues on Treasure Island Road and the associated delays to Muni service on a quarterly (every 3 months) basis on a Saturday and three consecutive weekdays (Tuesday, Wednesday, and Thursday). Monitoring shall be increased to a monthly basis once delay to Muni is equal to or greater than the prevailing headway during the AM, PM, or Saturday peak periods. The monitoring shall begin upon installation of the metering light on the westbound on-ramp on the east side of YBI, or upon completion of 1,000 dwelling units, whichever occurs first. The measure shall be implemented when the queues between First Street and the westbound on-ramp on the west side of Yerba Buena Island result in an operational delay to Muni service	TITMA to report to SFMTA	

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MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
		equal to or greater than the prevailing headway during the AM, PM or Saturday peak periods over the course of six months at least 50 percent of the time during the AM, PM, or Saturday peak periods.			
Noise Mitigation Measures	ł		<u> </u>		
<b>Mitigation Measure M-NO-1a: Reduce Noise Levels During Construction</b> . The following practices shall be incorporated into the construction contract agreement documents to be implemented by the construction contractor:	Project sponsors and their construction contractor(s)	For each construction permit. Construction contractors to report onConstruction contractors to report on implementation on a monthly basis to DPW			
• Provide enclosures and mufflers for stationary equipment, shroud or shield impact tools, and install barriers around particularly noisy activities at the construction sites so that the line of sight between the construction activities and nearby sensitive receptor locations is blocked;		noise measures implemented on a monthly basis.	report on implementation on a monthly basis to DPW if construction is permitted under a street permit, or DBI if construction is under a site or building permit, or SFPUC if		
• Use construction equipment with lower noise emission ratings whenever feasible, particularly for air compressors;			construction is for a SFPUC-owned facility.		
• Provide sound-control devices on equipment no less effective than those provided by the manufacturer;					
• Locate stationary equipment, material stockpiles, and vehicle staging areas as far as practicable from sensitive receptor locations;					
<ul> <li>Prohibit unnecessary idling of internal combustion engines;</li> </ul>					
• Require applicable construction-related vehicles and equipment to use designated truck routes to access the project sites;					
• Implement noise attenuation measures to the extent feasible, which may include, but are not limited to, noise barriers or noise blankets. The placement of such attenuation measures shall be reviewed and approved by the Director of Public Works prior to issuance of development permits for construction activities; and	TIDA to designat Noise Disturbance Coordinator; all construction	Noise Disturbance Coordinator to be available throughout all construction phases until			
<ul> <li>Designate a Noise Disturbance Coordinator who shall be responsible for</li> </ul>	contractors shall	buildout is complete.			

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
responding to complaints about noise during construction. The telephone number of the Noise Disturbance Coordinator shall be conspicuously posted at the construction site and shall be provided to the City. Copies of the construction schedule shall also be posted at nearby noise-sensitive areas.	work with Coordinator and post construction schedule		Responsibility	Completed
Mitigation Measure M-NO-1b: Pile Driving Noise-Reducing Techniques and Muffling Devices. The project sponsors and developers of each structure (project applicant) shall require the construction contractor to use noise-reducing pile driving techniques if nearby structures are subject to pile driving noise and vibration. These techniques shall include pre-drilling pile holes (if feasible, based on soils; see Mitigation Measure M-NO-2) to the maximum feasible depth, installing intake and exhaust mufflers on pile driving equipment, vibrating piles into place when feasible, and installing shrouds around the pile driving hammer where feasible. Construction contractors shall be required to use construction equipment with state-of- the-art noise shielding and muffling devices. In addition, at least 48 hours prior to pile- driving activities, the Project Applicant shall notify building owners and occupants within 500 feet of the project site of the dates, hours, and expected duration of such activities.	Project sponsors and developers of each structure to require construction contractor(s) to identify the selected noise-reducing pile driving techniques and noise shielding and muffling devices	During construction of each phase, if pile driving is required. Notification of building owners and occupants within 500 feet of the project site of the dates, hours, and expected duration of such activities shall occur at least 48 hours prior to pile driving activities,.	Project sponsors shall report technique proposed to be used to DPW if construction is permitted under a street permit, or DBI if construction is under a site or building permit. Project sponsors shall report notifications to TIDA and Planning Department	
Mitigation Measure M-NO-2: Pre-Construction Assessment to Minimize Impact Activity and Vibro-compaction Vibration Levels. The project sponsors shall engage a qualified geotechnical engineer to conduct a pre-construction assessment of existing subsurface conditions and the structural integrity of nearby buildings subject to impact or vibrocompaction activity impacts before a building permit is issued. If recommended by the geotechnical engineer, for structures or facilities within 50 feet of impact or vibro-compaction activities, the Project Applicant shall require ground-borne vibration monitoring of nearby structures. Such methods and technologies shall be based on the specific conditions at the construction site such as, but not limited to, the pre-construction surveying of potentially affected structures and underpinning of foundations of potentially affected structures, as necessary. The pre-construction assessment shall include a monitoring program to detect ground settlement or lateral movement of structures in the vicinity of impact or vibro-compaction activities. Monitoring results shall be submitted to the Department of Building Inspection. In the event of unacceptable ground movement, as determined by the Department of Building Inspection, all impact and/or vibro-compaction work shall cease and corrective measures shall be implemented. The impact and vibro-compaction program and ground stabilization measures shall be reevaluated and approved by the Department of Building	Project sponsors and qualified geotechnical engineer(s) engaged by project sponsors	Pre-construction assessment shall occur prior to commencement of construction of each phase of site preparation or grading and prior to construction of each building, where use of impact or vibro- compaction methods are proposed. Monitoring shall occur, if recommended, during impact activities and vibro-compaction and during other ground stabilization measures as	Geotechnical engineer to submit pre-construction assessments to the Department of Building Inspection. Geotechnical engineer shall provide reports of results of monitoring programs to Department of Building Inspection for review and approval	

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
Inspection.		recommended by geotechnical engineer		
Mitigation Measure M-NO-5: Residential, School, and Transient Lodging Land Use Plan Review by Qualified Acoustical Consultant. To ensure that automobile and ferry traffic induced interior $L_{max}$ noise levels at nearby uses do not exceed an interior noise level standard of 45 dBA ( $L_{dn}$ ), the developer of each new residential, scholastic, or hotel land uses planned for the Development Plan Area shall be required to engage a qualified acoustical consultant to prepare plans for the applicable development project, and to follow their recommendations to provide acoustical insulation or other equivalent measures to ensure that interior peak noise events would not exceed 45 dBA ( $L_{dn}$ ). Similar to requirements of Title 24, this Plan shall include post-construction monitoring to verify adequacy of noise attenuation measures.	Project sponsor(s) for each new residential, educational or hotel building to retain qualified acoustical consultants to prepare plans for acoustical insulation, and following construction and occupancy to monitor for adequacy of measures	Prior to completion of design and issuance of the first building permit allowing commencement of construction of each new residential or hotel building, or new or upgraded educational facility Monitoring to be carried out at least one time within one year following completion and occupancy of each residential, hotel, or educational building	Consultant(s) to submit reports to Department of Building Inspection. Building designers to follow the recommendations of the acoustical consultant. DBI to review plans to ensure recommendations are included in plans. Monitoring report to be filed with DBI by acoustical consultant	
<b>Mitigation Measure M-NO-6: Stationary Operational Noise Sources.</b> All utility and industrial stationary noise sources (e.g., pump stations, electric substation equipment, etc.) shall be located away from noise sensitive receptors, be enclosed within structures with adequate setback and screening, be installed adjacent to noise reducing shields or constructed with some other adequate noise attenuating features to achieve acceptable regulatory noise standards for industrial uses as well as to achieve acceptable levels at the property lines of nearby residences or other sensitive uses, as determined by the San Francisco Land Use Compatibility Guidelines for Community Noise standards. Once the stationary noise sources have been installed, noise levels shall be monitored to ensure compliance with local noise standards. If project stationary noise sources exceed the applicable noise standards, an acoustical engineer shall by retained by the applicant to install additional noise attenuation measures in order to meet the applicable noise standards.	TIDA, in consultation with SFPUC if appropriate, to establish appropriate locations for utility and industrial facilities that could produce noise and project sponsors to require appropriate noise attenuating features in design Project sponsors to retain qualified expert to monitor	Site and noise attenuation features to be established during design of each utility or industrial stationary noise source Monitoring to be carried out within three months of installation of stationary noise sources, at each structure with stationary noise sources	Reports of monitoring results to be submitted to TIDA with copies to Planning Department	

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
	sound from each stationary noises source, and retain qualified acoustical engineer if noise standards are exceeded.			
Air Quality Mitigation Measures				
<ul> <li>Mitigation Measure M-AQ-1: Implementation of BAAQMD-Identified Basic Construction Mitigation Measures. The following eight BAAQMD-identified construction mitigation measures shall be incorporated into the required Construction Dust Control Plan for the Proposed Project: <ol> <li>All exposed surfaces shall be watered two times daily.</li> <li>All haul trucks transporting soil, sand, or other loose material off-site shall be covered.</li> </ol> </li> <li>All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet-power vacuum street sweepers at least once per day.</li> <li>All vehicle speeds on unpaved roads shall be limited to 15 mph.</li> <li>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.</li> <li>Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes. Clear signage shall be provided for construction workers at all access points.</li> <li>All construction equipment shall be maintained and properly tuned in accordance with manufacturers specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.</li> <li>Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.</li> </ul>	Project sponsors to prepare Construction Dust Control Plan, and project sponsors and their construction contractors to implement Construction Dust Control Plan Construction contractors to post contact person and telephone numbers	Department of Building Inspection (DBI) will not issue building permits until Department of Public Health (SFDPH) has approved Construction Dust Control Plan Dust Control Plans to be prepared and implemented during each phase of site preparation and building construction	SFDPH to review and approve Construction Dust Control Plan and notify DBI of the approval	
<ul> <li>Mitigation Measure M-AQ-2: Construction Exhaust Emissions. TIDA shall require project sponsors to implement combustion emission reduction measures, during construction activities, including the following measures:</li> <li>The contractor shall keep all off-road equipment well-tuned and regularly serviced to minimize exhaust emissions, and shall establish a regular and frequent check-up</li> </ul>	TIDA shall require, and project sponsors and their construction	Project sponsors, with assistance from construction contractors, shall submit quarterly	TIDA and DBI in Tidelands Trust Overlay Zone Planning Department and	

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
<ul> <li>and service/maintenance program for equipment.</li> <li>Off-road diesel equipment operators shall be required to shut down their engines rather than idle for more than five minutes, unless such idling is necessary for proper operation of the equipment. Clear signage shall be provided for construction workers at all access points.</li> <li>TIDA shall require that project sponsors also engage in early implementation of the following combustion emission reduction measures, during construction activities:</li> <li>The project applicant shall utilize EPA Tier 3 engine standards or better at the start of construction for all off-road equipment, or utilize Retrofit Emission Control Devices which consist of diesel oxidation catalysts, diesel particulate filters or similar retrofit equipment control technology verified by the California Air Resources Board ("CARB") (http://www.arb.ca.gov/diesel/verdev/verdev.htm).</li> <li>The project applicant shall utilize EPA Tier 4 engine standards or better for 50 percent of the fleet at construction initiation, increasing to 75 percent by 2015, and 100 percent by 2018, to the extent that EPA Tier 4 equipment is commercially available.</li> <li>The project applicant shall utilize 2010 or newer model year haul trucks, to the extent that they are commercially available.</li> </ul>	contractors, shall implement	reports regarding compliance with measures and implementation of emission reduction strategies and use of Tier 3 or Tier 4 or equivalent equipment during construction through 2018 and annually thereafter until buildout.	DBI outside of Trust Overlay Zones	
• Diesel-powered generators for construction activity shall be prohibited as a condition of construction contracts for each Major Phase, unless TIDA has made a finding in writing in connection with the Major Phase that there are no other commercially available alternatives to providing localized power.				
<b>Mitigation Measure M-AQ-3</b> : At the submission of any Major Phase application, TIDA shall require that an Air Quality consultant review the proposed development in that Major Phase along with existing uses and uses approved in prior Major Phases to determine whether the actual project phasing deviates materially from the representative phasing plan. If the Air Quality consultant determines the possible impact of the actual phasing could result in a significant impact on any group of receptors, then TIDA shall require that the applicant implement in connection with that Major Phase best management practices to the extent that TIDA determines feasible to reduce construction emissions in accordance with Mitigation Measures M-AQ-1, M- AQ-2, and M-AQ-4. TIDA shall also determine whether Tier 3 or Tier 4 engines, non- diesel powered generators, or year 2010 or newer haul trucks are commercially available for that phase, and, if so, require the use of such engines or haul trucks.	TIDA for horizontal construction or Planning Department for vertical construction outside Tidelands Trust Overlay Zone, and an air quality consultant	Review of phasing by air quality consultant to occur prior to approval of each Major Phase Application. If required, BMPs to be included prior to commencement of construction for each Sub- Phase within each Major Phase	TIDA and DBI or Planning Department and DBI as applicable	

	MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
Me Thi exc Alt BA BA	tigation Measure M-AQ-4: Implement Additional Construction Mitigation asures Recommended for Projects with Construction Emissions Above resholds. TIDA shall require the project sponsors to implement all of the following igation measures identified by BAAQMD, to the extent feasible, for projects that eed construction thresholds that would be applicable to reducing PM2.5 emissions. hough there may be some overlap, these mitigation measures are identified by AQMD as additional to those identified in Mitigation Measure AQ-1 which AQMD identifies as recommended for all projects regardless of whether thresholds exceeded:	TIDA shall require, and project sponsors and their construction contractors, shall implement	Project sponsors, with assistance from construction contractors, shall submit quarterly reports regarding implementation	TIDA, Planning Department, and DBI	
1.	All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe.				
2.	All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.				
3.	Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.				
4.	Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.				
5.	The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited.				
6.	Activities shall be phased to reduce the amount of disturbed surfaces at any one time.				
7.	All trucks and equipment, including their tires, shall be washed off prior to leaving the site.				
8.	Site accesses to a distance of 100 feet from the paved road shall be treated with a 6 to 12 inch compacted layer of wood chips, mulch, or gravel.				
9.	Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent.				
10.	Minimizing the idling time of diesel-powered construction equipment to two minutes.				
11.	Same as Mitigation Measure AQ-2.				

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)					
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
<ol> <li>Requiring that all construction equipment, diesel trucks, and generators be equipped with Best Available Control Technology for emission reductions of NOx and PM.</li> <li>Requiring all contractors use equipment that meets CARB's most recent certification standard for off-road heavy duty diesel engines.</li> </ol>					
Wind and Shadow Mitigation Measures			J		
<ul> <li>Mitigation Measure M-WS-3: Identification of Interim Hazardous Wind Impacts</li> <li>1. To identify nearby locations where potentially hazardous winds might occur as a result of the new construction during the phased buildout of the Development Program, the project sponsors shall contract with a qualified wind consultant. At least once a year, throughout construction of the Proposed Project, the wind consultant shall visit the project site, shall carefully review and consider the designs of all buildings that are approved or under construction using plans that shall be provided by the project sponsors and TIDA, shall carefully review the status of site development and building construction to date, and shall identify locations where potentially hazardous winds are likely to occur in pedestrian areas (including temporary and permanent sidewalks, streets and construction roads, and public open spaces) as a result of the new construction that would occur as part of the Proposed Project. The qualified wind consultant shall work with the project sponsors to identify structural measures and precautions to be taken to reduce exposure of persons to potentially hazardous winds in publicly accessible areas. The structural measures and precautions identified by the wind consultant could include, but not be limited to, measures such as: warning pedestrians and bicyclists of hazardous winds by placing weighted warning signs; identifying alternative pedestrian and bicycle routes that avoid areas likely to be exposed to hazardous winds; installing semi-permanent windscreens or temporary landscaping features (such as shrubs in large planters) that provide some wind sheltering and also direct pedestrian and bicycle traffic around hazardous areas.</li> </ul>	TIDA to retain (a) qualified wind consultant(s)	At least once a year throughout all phases of construction	TIDA and DBI with copy to Planning Department		
2. For the active construction areas, the wind consultant may identify those construction sites that would be especially exposed to strong winds and may recommend construction site safety precautions for those times when very strong winds occur onsite or when they may be expected, such as when high-wind watches or warnings are announced by the National Weather Service of the National Oceanic and Atmospheric Administration. The objective of construction site safety precautions shall be to	TIDA's wind consultant	At least once a year throughout all phases of construction	TIDA to report to DBI, with a copy to Planning Department.		

	MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed
	minimize risks and prevent injuries to workers and to members of the public from stacked materials, such as shingles and sheets of plywood, that can be picked up and carried by very strong winds, as well as from temporary signage, siding or roofing, or light structures that could be detached and carried by wind. As part of construction site safety planning, the project sponsors shall require, as a condition of the contract, that contractors shall consider all such wind-related risks to the public that could result from their construction activities and shall develop a safety plan to address and control all such risks related to their work.	Project sponsors and their construction contractors	Prior to issuance of a building permit for each structure	TIDA and Department of Building Inspection	
3.	TIDA shall ensure, by conditions of approval for horizontal work activity, and the Planning Department shall ensure by conditions of approval for building permits and site permits, that the project sponsors and the subsequent building developer(s) cooperate to implement and maintain all structural measures and precautions identified by the wind consultant.	TIDA and Planning Department	Prior to issuance of building permit for each structure and each site permit	TIDA	
4.	TIDA shall document undertaking the actions described in this mitigation measure, including copies of all reports furnished for vertical development by the Planning Department. TIDA shall maintain records that include, among others: the technical memorandum from the EIR; all written recommendations and memoranda, including any reports of wind testing results, prepared by the wind consultant(s) in the conduct of the reviews and evaluations described in this mitigation measure; and memoranda or other written proof that all constructed buildings incorporate the requisite design mitigations that were specified by the wind consultant(s).	TIDA	Throughout all phases of construction	Planning Department shall provide to TIDA all reports prepared for vertical development. TIDA shall document undertaking the action and maintain records for horizontal improvements and maintain records for vertical development.	

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)						
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed		
Mitigation Measure M-WS-4: Ongoing Review and Mitigation of Hazardous Wind Impacts1.Prior to schematic design approval of the building(s) on any parcel within the Project, the Planning Department shall require that a qualified wind consultant shall review and compare the exposure, massing, and orientation of the proposed building(s) on the subject parcel to the building(s) on the same parcel in the representative massing model of the Proposed Project tested in the wind tunnel as part of this EIR and in any subsequent wind testing. The wind consultant shall identify and compare the potential impacts of the proposed building(s) relative to those described in this EIR.The wind consultant's analysis and evaluation shall consider the proposed building(s) in the context of the "Current Project," which, at any given time during construction of the Project, shall be defined as the building masses used in the representative massing model of the Proposed Project, as described in this EIR, except as modified to replace appropriate building massing models with the corresponding as-built designs of all previously-completed structures and the then- current designs of approved but yet unbuilt structures. Finally, the proposed building(s) shall be compared to its equivalent current setting (the Current Project 	Planning Department, project sponsors' wind consultant(s), and project sponsors' architects and engineers	Prior to schematic design approval of the building(s) on any parcel within the Project Development Area	Planning Department and DBI to review			
<ul> <li>a. If the qualified wind consultant concludes that the building design(s) would not create a new wind hazard and would not contribute to a wind hazard identified by prior wind testing, no further review would be required.</li> <li>b. If the qualified wind consultant concludes that the building design(s) could create a new wind hazard or could contribute to a wind hazard identified by prior wind testing, but in the consultant's professional judgment can be modified to prevent it from doing so, the consultant shall propose changes or supplements to the design of the proposed building(s) to achieve this result. The consultant may consider measures that include, but are not limited to, changes in design, building orientation, and/or the addition of street furniture, as well as consideration of the proposed landscaping.</li> <li>The wind consultant shall work with the project sponsors and/or architect to identify specific feasible changes to be incorporated into the Project. To the extent the consultant shall specifically identify those essential features. The project sponsors shall incorporate those features into the</li> </ul>						

#### **EXHIBIT C:** MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures) **Responsibility for Monitoring/Reporting** Status/Date **MEASURES ADOPTED AS CONDITIONS OF APPROVAL** Schedule Implementation Responsibility Completed building's/buildings' design and landscaping plans. If the wind consultant can then conclude that the modified building's/buildings' design and landscaping would not create a new wind hazard or contribute to a wind hazard identified in prior wind testing, no further review would be required. Although a goal of this effort is to limit the wind effects of the building(s) to (1) cause the same or fewer number of hours of wind hazard in the immediate vicinity compared to the building(s) on that parcel as identified by prior wind testing, and (2) subject no more area to hazardous winds than was identified by prior wind testing, it should not be expected that all of the wind hazard(s) identified in prior wind testing would be eliminated by this measure. If, at this point in the analysis, the consultant concludes that the building(s) c. would cause a new wind hazard or increase a wind hazard identified in prior wind testing, and if the consultant concludes that the new or additional wind hazard is not likely to be eliminated by measures such as those described above, the consultant may determine that additional wind tunnel testing would be required. Wind tunnel testing would also be required if the consultant, due to complexity of the design or the building context, is unable to determine whether likely wind hazards would be greater or lesser than those identified in prior wind testing. In the event the building's design would appear to increase the hours of wind hazard or extent of area subject to hazard winds, the wind consultant shall identify design alterations that could reduce the hours or extent of hazard. The wind consultant shall work with the developer and/or architect to identify specific alterations to be incorporated into the project. It is not expected that in all cases that the wind hazard(s) identified in this EIR would be completely eliminated. To the extent the wind consultant's findings depend on particular building design features or landscaping features in order to meet this standard, the consultant shall identify such features, and such features shall be incorporated into the design and landscaping. 2. If wind testing of an individual or group of buildings is required, the building(s) shall be wind tested in the context of a model (subject to the neighborhood group geographic extent described below) that represents the Current Project, as described in Item 1, above. Wind testing shall be performed for the building's/buildings' "Neighborhood" group, i.e. the surrounding blocks (at least three blocks wide and several blocks deep) within which the wind consultant determines wind hazards caused by or affected by the building(s) could occur.

#### **EXHIBIT C:** MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures) **Responsibility for Monitoring/Reporting** Status/Date **MEASURES ADOPTED AS CONDITIONS OF APPROVAL** Schedule Implementation Responsibility Completed The testing shall include all the test points in the vicinity of a proposed building or group of buildings that were tested in this EIR, as well as all additional points deemed appropriate by the consultant to determine the building's/buildings' wind performance. The wind testing shall test the proposed building design in the Current Project scenario, as well as test the existing Current Project scenario, in order to clearly identify those differences that would be due to the proposed new building. In the event that wind testing shows that the building's design would cause an increase in the hours of or extent of area subject to hazard winds in excess of that identified in prior wind testing, the wind consultant shall work with the project sponsors, architect and/or landscape architect to identify specific feasible alterations to be incorporated into the building(s). To the extent that avoiding an increase in wind hazard relies on particular building design or landscaping features, these building design or landscaping features shall be incorporated into the design by the project sponsors. The ability of the design alterations to reduce the wind hazard shall be demonstrated by wind tunnel testing of the modified design. Although a goal of this effort should be to limit the building's/buildings' wind effect to (1) cause the same or fewer number of hours of wind hazard in the immediate vicinity compared to the building(s) on that parcel as identified by prior wind testing, and (2) subject no more area to hazardous winds than was identified by prior wind testing, it should not be expected that all of the wind hazard(s) identified in the prior wind testing or in the current wind testing under this mitigation measure would be eliminated. TIDA shall document undertaking the actions described in this mitigation Ongoing until full Planning Department to 3. TIDA to maintain buildout provide copies of measure, including copies of all reports furnished for vertical development by the documentation Planning Department. TIDA shall maintain records that include, among others: documentation for vertical the technical memorandum from the EIR; all written recommendations and development to TIDA as memoranda, including any reports of wind testing results, prepared by the wind they are prepared. consultant(s) in the conduct of the reviews and evaluations described in this mitigation measure; and memoranda or other written proofs that all constructed buildings incorporate the requisite design mitigations that were specified by the wind consultant(s).

#### **EXHIBIT C:** MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures) **Responsibility for Monitoring/Reporting** Status/Date **MEASURES ADOPTED AS CONDITIONS OF APPROVAL** Schedule Implementation Responsibility Completed **Biological Resources Mitigation Measures** Mitigation Measure M-BI-1a: Surveys for Special-Status Plants. On Yerba Buena TIDA to provide copies of Project sponsors to Prior to construction for Island, presence/absence surveys for special-status plants shall be conducted by a qualified retain qualified each phase on YBI, a all survey reports to botanist prior to any ground disturbance. In the event that special-status plant populations professional Planning Department preconstruction survey are found during the surveys, the lead agency will avoid disturbance to the species by consultant to carry shall be conducted within establishing a visible avoidance buffer zone of not less than 25 feet. If it is not feasible to the construction area in out and report on avoid disturbance or mortality, then special-status plant populations will be restored on-site surveys the spring (May and June) at a 1:1 ratio in areas that are to remain as post-development open space. by a qualified botanist. TIDA to maintain copies of all reports Copies of all reports to be Mitigation Measure M-BI-1b: Pre-project Surveys for Nesting Birds. Pre-project Project sponsors to Preconstruction surveys surveys shall be conducted by a qualified biologist for nesting birds between February 1st retain qualified provided to TIDA and shall be conducted for and August 15<sup>th</sup> if ground disturbance or tree removal is scheduled to take place during professional work scheduled during the Planning Department that period. If bird species protected under the Migratory Bird Treaty Act ("MBTA") or breeding season (February consultant to carry the California Fish and Game Code are found to be nesting in or near any work area, an out preconstruction through August). appropriate no-work buffer zone (e.g., 100 feet for songbirds) shall be designated by the surveys in The preconstruction biologist. Depending on the species involved, input from the California Department of consultation with survey shall be conducted Fish and Game ("CDFG") and/or the U.S. Fish and Wildlife Service ("USFWS") Division CDFG and/or within 15 days prior to the of Migratory Bird Management may be warranted. As recommended by the biologist, no USFWS, as start of work from activities shall be conducted within the no-work buffer zone that could disrupt bird appropriate. February through May, breeding. Outside of the breeding season (August 16 – January 31), or after young birds TIDA to maintain and within 30 days prior have fledged, as determined by the biologist, work activities may proceed. copies of all reports to the start of work from June through August. If active nests of protected birds are found in the work area, no work will be allowed within the buffer(s), until the young have successfully fledged. Throughout the Copies of all reports to be Mitigation Measure M-BI-1c: Minimizing Disturbance to Bats. Removal of trees or Project sponsors to demolition of buildings showing evidence of bat activity shall occur during the period least retain qualified bat construction phases, with provided to TIDA and likely to impact the bats as determined by a qualified bat biologist (generally between biologist to carry out particular attention prior Planning Department February 15 and October 15 for winter hibernacula and between August 15 and April 15 surveys, in to construction at each site for maternity roosts). If active day or night roosts are found, the bat biologist shall take consultation with and/or structure actions to make such roosts unsuitable habitat prior to tree removal or building demolition. CDFG if buffer is A no-disturbance buffer of 100 feet shall be created around active bat roosts being used for proposed to be

MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for	Schedule	Monitoring/Reporting	Status/Date
maternity or hibernation purposes. A reduced buffer could be provided for on a case-by- case basis by the bat biologist, in consultation with CDFG and based on site-specific conditions. Bat roosts initiated during construction are presumed to be unaffected, and no buffer would necessary.	Implementation reduced. TIDA to maintain copies of all reports		Responsibility	Completed
<b>Mitigation Measure M-BI-1d: Control of Domestic and Feral Animals.</b> To avoid conflicts with wildlife on Yerba Buena Island and the remaining natural habitats on Yerba Buena Island, the Islands' Covenants, Conditions and Restrictions, TIDA Rules and Regulations, and/or other similar enforceable instruments or regulations, shall prohibit off-leash dogs outside of designated, enclosed, off-leash dog parks on Yerba Buena Island and the feeding of feral cats on both islands. Building tenants shall be provided with educational materials regarding these restrictions, rules, and/or regulations. Non-resident pet owners and the public using the Islands shall be alerted to these restrictions, rules, and/or regulations through appropriate signage in public areas.	Project sponsors to include in CCRs and/or TIDA to include in rules and regulations and post appropriate signage Project sponsors and individual site developers to provide information to building tenants	Preparation of rules, regulations, and convenants prior to each Major Phase; Communications to tenants and visitors, prior to occupation of new structures, and ongoing	TIDA	
<b>Mitigation Measure M-BI-1e: Monitoring During Off-Shore Pile Driving.</b> Site- specific conditions during all offshore pile driving shall be monitored by a qualified marine biologist to ensure that aquatic species within the project area would not be impacted, that harbor seals at nearby Yerba Buena Island, at occasional Treasure Island haul-outs, and while in transit along the western shoreline of Treasure Island during work on the Ferry Terminal and in Clipper Cove during work on the Sailing Center, are not disturbed, and that sound pressures outside the immediate project area do not exceed 160 dB at 500 meters from the source. If this threshold is exceeded or avoidance behavior by marine mammals or fish is observed by the on-site marine biologist, bubble curtains will be used to reduce sound/vibration to acceptable levels.	Project sponsors and project sponsors' qualified marine biologist(s) and acoustical consultant(s)	During off-shore pile driving for each phase of in-water construction for Ferry Terminal and Sailing Center	TIDA and Dept. of Building Inspection	
In addition the following measures shall be employed to further reduce noise from pile- driving activities:				
• Use as few piles as necessary in the final terminal design;				
• Use vibratory hammers for all steel piles;				
• Use cushion blocks between the hammer and the pile;				
• Restrict pile driving to June 1 to November 30 work window as recommended by NOAA Fisheries to protect herring and salmonids;				

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)					
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed	
If marine mammals are observed within 1,000 feet of pile driving activities, allow them to completely exit the vicinity of the pile driving activities before pile driving resumes.					
Mitigation Measure M-BI-2a: Restriction of Construction Activities. Geotechnical stabilization, shoreline heightening and repair work, stormwater outfall improvements, and other Project activities conducted in and around the Islands' rocky shoreline shall be generally restricted to the terrestrial and upper intertidal zones. Activities in the lower intertidal and near subtidal zone shall be minimized to the maximum extent practicable, using the smallest area and footprint for disturbance as possible. Outside of planned dredging areas (Ferry Terminal and the Sailing Center) movement and disturbance of existing rocks in the lower intertidal zone shall be prohibited.	Project sponsors and project sponsors' qualified marine biologist(s), in consultation with CDFG as necessary, to establish limitations on construction activities	During any construction conducted in and around the Islands' rocky shoreline	Biologists to provide quarterly reports to TIDA		
Mitigation Measure M-BI-2b: Seasonal Limitations on Construction Work. Construction work on the Islands' shoreline shall be conducted between March 1 and November 30 to avoid any disturbance to herring spawning occurring in SAV surrounding Treasure Island.	Project sponsors and their qualified marine biologist(s)	During construction activities conducted on and around the Islands' shoreline, limited to March 1 to November 30	Project sponsors to report to TIDA re construction schedules for work on and near shoreline		
<b>Mitigation Measure M-BI-2c: Eelgrass Bed Survey and Avoidance.</b> Within three to six months of the initiation of construction activities that might affect SAV beds, and not less frequently than biennially (every two years) thereafter, all eelgrass beds shall be surveyed or otherwise identified, including their proximity to and potential impact from ongoing or pending onshore or offshore activities. All TIDA staff in charge of overseeing construction for the Proposed Project, and all construction contractors and subcontractors involved in Project construction activities in Bay waters that are within a quarter mile of Treasure Island and Yerba Buena Island, along Treasure Island's shoreline, or involved in transporting materials and supplies by water to either Island shall be required to undergo thorough environmental training. This training shall present information on the locations of all eelgrass beds, the kinds of construction and vessel transit activities that can impact eelgrass beds, all mitigation measures that contractors must adhere to so that any disturbance or damage to eelgrass beds may be avoided and the beds protected, and who to notify in the event of any disturbance. Any work barges or vessels engaged in construction activities shall avoid transiting through and anchoring in any eelgrass beds located around Treasure Island. TIDA personnel	Project sponsors and project sponsors' qualified marine biologist(s) and project sponsors and their construction contractors (including boat operators and crew)	First survey to occur 3 to 6 months prior to initiation of construction on eastern or southern shorelines or prior to initial delivery of construction materials by water. Regular surveys to occur every 2 years thereafter until construction and materials deliveries by water are completed. Training to occur prior to initiation of work by each construction contractor	Marine biologist(s) to report to TIDA on survey schedules and results of surveys. Marine biologist(s) to report to TIDA on each training session with copies to Planning Department		

EXHIBIT C: MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures)						
MEASURES ADOPTED AS CONDITIONS OF APPROVAL	Responsibility for Implementation	Schedule	Monitoring/Reporting Responsibility	Status/Date Completed		
responsible for overseeing Project contractors, as well as all Project contractor and subcontractor management personnel, shall ensure that all boat operators and work crews are aware of eelgrass bed locations and the requirement to avoid disturbing them.						
<ul> <li>Mitigation Measure M-BI-4a: Minimizing Bird Strikes. Prior to the issuance of the first building permit for each building in the Proposed Project, project applicants shall have a qualified biologist experienced with bird strikes review the design of the building to ensure that it sufficiently minimizes the potential for bird strikes and report to the Planning Department. The Planning Department may consult with resource agencies such as the California Department of Fish and Game or others, as it deems appropriate.</li> <li>The building developer shall provide to the Planning Department a written description of the measures and features of the building developers are encouraged to coordinate with the Planning Department early in the design process regarding design features intended to minimize bird strikes. The design shall include some of the following measures or measures that are equivalent to, but not necessarily identical to, those listed below, as new, more effective technology for addressing bird strikes may become available in the future:</li> </ul>	Project sponsors to retain qualified biologist(s) experienced with bird strikes and Project sponsors and their architects and during operation, building managers to implement the building design features and	Prior to the issuance of the first building or site permit for each building in the Proposed Project and ongoing as buildings are occupied	TIDA and Planning Department to maintain copies of biological reports for each building. Project sponsors to report to the Planning Department on implementation of building design measures for buildings on non-Trust property, and to TIDA for buildings on Trust property. Building managers to			
<ul> <li>Employ design techniques that create "visual noise" via cladding or other design features that make it easy for birds to identify buildings as such and not mistake buildings for open sky or trees;</li> <li>Decrease continuity of reflective surfaces using "visual marker" design techniques, which techniques may include: <ul> <li>Patterned or fritted glass, with patterns at most 28 centimeters apart,</li> <li>One-way films installed on glass, with any picture or pattern or arrangement that can be seen from the outside by birds but appear transparent from the inside,</li> <li>Geometric fenestration patterns that effectively divide a window into smaller panes of at most 28 centimeters, and/or</li> <li>Decals with patterned or abstract designs, with the maximum clear spaces at most 28 centimeters square.</li> </ul> </li> </ul>	measures.		provide annual reports to TIDA on implementation of measures related to building operations, including lighting, education activities, and landscape maintenance.			

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blinds or curtains, frosting of glass, angling glass towards the ground, UV-A glass, or awnings and overhangs;					
• Eliminate the use of clear glass on opposing or immediately adjacent faces of the building without intervening interior obstacles such that a bird could perceive its flight path through the glass to be unobstructed;					
• Mute reflections in glass using strategies such as angled glass, shades, internal screens, and overhangs; and					
• Place new landscapes sufficiently away from glazed building facades so that no reflection occurs. Alternatively, if planting of landscapes near a glazed building façade is desirable, situate trees and shrubs immediately adjacent to the exterior glass walls, at a distance of less than 3 feet from the glass. Such close proximity will obscure habitat reflections and will minimize fatal collisions by reducing birds' flight momentum.					
Lighting					
The Planning Department shall similarly ensure that the design and specifications for buildings on non-Trust property, and TIDA shall ensure that the design and specifications for sports facilities/playing fields and buildings on Trust property, implement design elements to reduce lighting usage, change light direction, and contain light. These include, but are not limited to, the following considerations:					
• Avoid installation of lighting in areas where not required for public safety;					
• Examine and adopt alternatives to bright, all-night, floor-wide lighting when interior lights would be visible from the exterior or exterior lights must be left on at night, including:					
<ul> <li>Installing motion-sensitive lighting,</li> </ul>					
<ul> <li>Installing task lighting,</li> </ul>					
<ul> <li>Installing programmable timers, and</li> </ul>					
<ul> <li>Installing fixtures that use lower-wattage, sodium, and blue-green lighting.</li> </ul>					
• Install strobe or flashing lights in place of continuously burning lights for obstruction lighting.					
• Use rotating beams instead of continuous light; and					
• Where exterior lights are to be left on at night, install fully shielded lights to contain and direct light away from the sky, as illustrated in the City of Toronto's Bird Friendly Building Guidelines.					

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Antennae, Monopole Structures, and Rooftop Elements The Planning Department shall ensure, as a condition of approval for every building permit, that buildings minimize the number of and co-locate rooftop-antennas and other rooftop equipment, and that monopole structures or antennas on buildings, in open areas, and at sports and playing fields and facilities do not include guy wires. <u>Educating Residents and Occupants</u> The Planning Department shall ensure, as a condition of approval for every building permit issued for non-Trust property, and TIDA shall ensure, as a condition of approval for every building permit for Trust property, that the permit applicant agrees to provide educational materials to building tenants and occupants, hotel guests, and residents encouraging them to minimize light transmission from windows, especially during peak spring and fall migratory periods, by turning off unnecessary lighting and/or closing window coverings at night. TIDA shall review and approve the educational materials prior to building occupancy. <u>Documentation</u> TIDA shall document undertaking the activities described in this mitigation measure and maintain records that include, among others, the written descriptions provided by the building developer of the measures and features of the design for each building that are intended to address potential impacts on birds, and the recommendations and memoranda prepared by the qualified biologist experienced with bird strikes who reviews and approves the design of the building or sports facilities / playing fields to ensure that it sufficiently minimizes the potential for bird strikes.	TIDA and Planning Department	ongoing	TIDA and Planning Department		
Mitigation Measure M-BI-8 (Variant B3): Minimize Disturbance to Newly Established Sensitive Species During Construction of Southern Breakwater. If Variant B3 is selected as the preferred ferry terminal breakwater approach, prior to initiation of any construction activities for the southern breakwater, a survey of the construction area shall be conducted by a qualified marine biologist to assess the presence of eelgrass ( <i>Zostera spp.</i> ) beds, green sturgeon or other protected fish species, and utilization by marine mammals, primarily harbor seals ( <i>Phoca</i> vitulina) and California sea lions ( <i>Zalophus californianus</i> . Survey results will be submitted to TIDA, and by TIDA to the ACOE, BCDC, NMFS, and CDFG.	Project sponsors and project sponsors' qualified marine biologist(s) to carry out surveys in consultation with ACOE, BCDC, NMFS, and CDFG, where necessary	Prior to construction of the ferry terminal southern breakwater	Marine biologists to supply reports of survey results and approaches to avoid or restore eelgrass beds, if found, and approaches to avoiding disturbing marine mammals or protected fish species to TIDA		
In the event the survey shows that eelgrass ( <i>Zostera spp.</i> ) has established beds within the proposed construction area of the southern breakwater or within close proximity, such that	Project sponsors & construction	If eelgrass beds found, construction of the ferry			

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planned construction activities could have an impact on the beds, then the restoration of offsite eelgrass beds or the transplantation and establishment of offsite or onsite eelgrass beds at a replacement ratio of 3:1 will be made.	contractors, in consultation w/ marine biologist(s)	terminal southern breakwater to be restricted to March 1 through November 30; restoration or offsite eelgrass beds to occur immediately following construction of breakwater		
In the event the survey shows that the planned establishment or construction of the southern breakwater would affect utilization of the area by protected fish species or by marine mammals as a haul-out area, construction and establishment of the southern breakwater will be done, under consultation with National Marine Fisheries, in a manner that does not adversely affect the protected fish species or prevent the continued utilization of the area by harbor seals or sea lions.	Project sponsors & construction contractors in consultation w/ marine biologist(s) and NMFS	During construction of the ferry terminal breakwater		
Mitigation Measure M-BI-9 (Variant C2): Impingement and/or Entrainment of Protected Fish and Invertebrates, if implemented. For Variant C2, the Bay water intake pipe for the supplemental firefighting water supply shall be designed and constructed in a manner that prevents impingement of fish and macroinvertebrates. This could include, but not be limited to, installing the intake pipe inside a screened subsea vault large enough to reduce water suction to acceptable levels wherein impingement of marine fauna would not occur. TIDA will submit the final design of the Bay water intake pipe to the National Marine Fisheries; CDFG; California Water Board, San Francisco Region; and BCDC for approval.	TIDA and project sponsors' qualified marine biologist(s) and engineering consultants in consultation with NMFS, CDFG, RWQCB and BCDC, where necessary	Prior to issuance of permits to construct the Bay water intake pipe, if Variant C2 is selected	Marine biologist(s) and engineering consultants to report to TIDA TIDA to maintain records of consultation with state and federal agencies	
Geology and Soils Mitigation Measures				
<b>Mitigation Measure M-GE-5: Slope Stability</b> . New improvements proposed for Yerba Buena Island shall be located at a minimum of 100 feet from the top of the existing slope along Macalla Road unless a site-specific geotechnical evaluation of slope stability indicates a static factor of safety of 1.5 and a seismic factor of safety of 1.1 are present or established geotechnical stabilization measures are implemented to provide that level of safety. Any geotechnical recommendations regarding slope stability made in site specific geotechnical investigations for the site shall be incorporated into the specifications for building on that site.	Project sponsors and their geotechnical consultant(s)	Prior to issuance of building permit for improvements or structures along Macalla Road	TIDA and Department of Building Inspection	

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Hazards and Hazardous Materials Mitigation Measures					
<ul> <li>Mitigation Measure M-HZ-1: Soil and Groundwater Management Plan</li> <li>Prior to issuance of a building or grading permit for any one or more parcels, the applicant shall demonstrate that its construction specifications include implementation of a Soil and Groundwater Management Plan ("SGMP") prepared by a qualified environmental consulting firm and reviewed and agreed to by DTSC and RWQCB. For parcels transferred from the Navy under a Lease in Furtherance of Conveyance (LIFOC), or Early Transfer (FOSET) or parcels transferred under a FOST which specifies that additional remediation of petroleum contamination is necessary or additional remediation is necessary to meet the proposed land use, all additional or remaining remediation on those parcels shall be completed as directed by the responsible agency, DTSC or RWQCB, prior to commencement of construction activities unless (i) those construction activities are conducted in accordance with the requirements of any applicable land use convenant, lease restriction or deed restriction and in accordance with the Site Health and Safety requirements of the SGMP, or (ii) those construction activities are otherwise given written approval by either DTSC or RWQCB. The SGMP shall be present on site at all times and readily available to site workers.</li> <li>The SGMP shall specify protocols and requirements for excavation, stockpiling, and transport of soil and for disturbance of groundwater as well as a contingency plan to respond to the discovery of previously unknown areas of contamination (e.g., an underground storage tank unearthed during normal construction activities). Specifically, the SGMP shall include at least the following components:</li> <li>Soil stockpiling requirements. Protocols for stockpiling, sampling, and transporting soil generated from on-site activities, and requirements for soil imported to the site for placement. The soil management requirements must include:</li> <li>Soil stockpiling requirements such as placement of</li></ul>	<ul> <li>Project sponsors for first Sub-Phase of the first Major Phase to prepare and obtain DTSC/RWQCB approval of project- wide SGMP</li> <li>All subsequent project sponsors to follow SGMP and prepare/follow parcel-specific or sub-parcel-specific health and safety plan.</li> <li>Project sponsors and their remediation contractor(s)</li> </ul>	Prior to the first Sub- Phase Application Approval Prior to issuance of a building or grading permit for any parcel or parcels	TIDA and DBI. TIDA shall ensure that Project sponsors obtain state agency approval of project- wide SGMP; DBI to confirm project applicants have site-specific health and safety plan prior to issuance of a permit. In the event of LIFOC or FOSET, TIDA to ensure completion of remediation, or other approval from DTSC/RWQCB, prior to construction activities.		

#### **EXHIBIT C:** MITIGATION MONITORING AND REPORTING PROGRAM FOR THE TREASURE ISLAND / YERBA BUENA ISLAND PROJECT (Includes Text for Adopted Mitigation and Improvement Measures) **Responsibility for Monitoring/Reporting** Status/Date **MEASURES ADOPTED AS CONDITIONS OF APPROVAL** Schedule Implementation Responsibility Completed Requirements for offsite transportation and disposal of soil not determined to be suitable for on-site reuse. Any soil identified for off-site disposal must be packaged, handled, and transported in compliance with all applicable state, federal, and the disposal facility's requirements for waste handling, transportation and disposal. Soil importation requirements for soil brought from offsite locations. ٠ 2. Groundwater management requirements. Protocols for conducting dewatering activities and sampling and analysis requirements for groundwater extracted during dewatering activities. The sampling and analysis requirements shall specify which groundwater contaminants must be analyzed or how they will be determined. The results of the groundwater sampling and analysis shall be used to determine which of the following reuse or disposal options is appropriate for such groundwater: On-site reuse (e.g., as dust control); Discharge under the general permit for stormwater discharge for construction . sites: Treatment (as necessary) before discharge to the sanitary sewer system under . applicable San Francisco PUC waste discharge criteria; Treatment (as necessary) before discharge under a site-specific NPDES ٠ permit: Off-site transport to an approved offsite facility. ٠ For each of the options listed, the SGMP shall specify the particular criteria or protocol that would be considered appropriate for reuse or disposal option. The thresholds used must, at a minimum, be consistent with the applicable requirements of the RWQCB and the San Francisco Public Utilities Commission. 3. Unknown contaminant/hazard contingency plan. Procedures for implementing a contingency plan, including appropriate notification, site worker protections, and site control procedures, in the event unanticipated subsurface hazards or hazardous material releases are discovered during construction. Control procedures shall include: Protocols for identifying potential contamination though visual or olfactory observation:

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• Protocols on what to do in the event an underground storage tank is encountered;					
• Emergency contact procedures;					
• Procedures for notifying regulatory agencies and other appropriate parties;					
• Site control and security procedures;					
• Sampling and analysis protocols; and					
• Interim removal work plan preparation and implementation procedures.					
<ul> <li>Mitigation Measure M-HZ-8: Construction Best Management Practices</li> <li>The use of construction best management practices (BMPs) shall be incorporated into the construction specifications and implemented as part of project construction. The BMPs would minimize potential negative effects to groundwater and soils and shall include the following:</li> <li>Follow manufacturer's recommendations on use, storage and disposal of chemical products used in construction;</li> <li>All refueling and maintenance activities shall occur at a dedicated area that is equipped with containment improvements and readily available spill control equipment and products. Overtopping construction equipment fuel gas tanks shall be avoided;</li> <li>During routine maintenance of construction equipment, properly contain and remove grease and oils; and</li> <li>Properly dispose of discarded containers of fuels and other chemicals.</li> </ul>	Project sponsors and their construction contractors	BMPs for each construction site or area to be prepared prior to initiation of construction activities. Relevant BMPs to be implemented during all construction phases	DBI to ensure that proposed BMPs for each construction site are submitted to San Francisco Dept. of Public Health for review and that they are incorporated into construction specifications for implementation		
<b>Mitigation Measure M-HZ-10: Soil Vapor Barriers.</b> Prior to obtaining a building permit for an enclosed structure within IR Sites 21 or 24 or within any area where the FOST or site closure documentation specifies that vapor barriers are necessary or that additional sampling must be conducted to determine if vapor barriers are necessary due to the presence of residual contamination that has volatile components (such as chlorinated solvents PCE and TCE or certain petroleum hydrocarbons), the applicant shall demonstrate either that the building plans include DTSC-approved vapor barriers to be installed beneath the foundation for the prevention of soil vapor intrusion, or that DTSC has determined that installation of vapor barriers is not necessary.	Project sponsors for buildings located within IR sites 21 or 24, and their construction contractor(s), in consultation with and approved by DTSC, if needed.	Prior to issuance of a building permit for construction in the areas specified	TIDA to ensure that sampling occurs where necessary; that the necessary DTSC approvals are obtained prior to construction, and that copies of reports are provided to DTSC, SFDPH and DBI. DBI to ensure appropriate vapor barriers		

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			are included in building plans.		
<b>Mitigation Measure M-HZ-13: Human Health Risk Assessment.</b> Prior to reopening the presently closed elementary school for elementary school use, TIDA or the SFUSD shall enter into a Voluntary Clean-Up Agreement (VCA) with DTSC's School Property Evaluation and Cleanup Division for the school site, regardless of whether any physical construction or expansion activities that trigger the requirement to consult with DTSC under the Education Code are proposed. As part of the VCA, a Preliminary Endangerment Assessment (PEA) shall be prepared under the supervision of DTSC's School Property Evaluation and Cleanup Division. If the Preliminary Endangerment Assessment discloses the presence of a hazardous materials release, or threatened release, or the presence of naturally occurring hazardous materials, at or near the school or adults working at the school, or discloses that ongoing or planned remediation activities to address such a release near the school could pose a significant risk to children attending the school or adults working at the school or adults working at the school or adults working at the school and reduce the increased cancer risk from exposure to such releases to less than one in a million (1x10-6) and reduce the increased risk of noncancerous toxic effects such that the Hazard Index for chronic and acute hazards is less than one.	TIDA or the SFUSD to prepare and negotiate a Voluntary Clean-Up Agreement with DTSC	Prior to reopening the presently closed elementary school for elementary school use	DTSC's School Property Evaluation and Cleanup Division or SFDPH (if DTSC declines)		
In the event DTSC declines to supervise the process required by this measure in circumstances where it is not required to do so under the California Education Code, the PEA shall be approved by the San Francisco Department of Public Health, applying the risk standards set forth above for cancer and non-cancer risks.			DTSC or San Francisco Department of Public Health		
IMPROVEMENT MEASURES FOR THE TREASURE ISLAND / YERBA BUEN.	A ISLAND PROJECT				
<u>Improvement Measure I-GHG-1</u> While the Proposed Project would not result in a significant impact with regard to GHG emissions, BAAQMD Guidance encourages Lead Agencies to incorporate best management practices for the purposes of reducing construction-related GHG emissions. The following measures should be considered to be implemented by the project applicant and its contractors: • Use of alternatively fueled (e.g., biodiesel, electric) construction	Project sponsors and their construction contractor(s) to incorporate all feasible measures	During all construction phases	Project sponsors to report to TIDA on measures to be included and provide reasons why any not included have not been.		

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<ul> <li>equipment for at least 15 percent of the fleet;</li> <li>Use local building materials for at least 10 percent of construction materials; and</li> <li>Recycling or reusing at least 50 percent of construction and demolition wastes.</li> </ul>					
Improvement Measure I-RE-3a Where artificial turf is proposed, the project sponsors are encouraged to work with the City Fields Foundation and City Recreation and Park Department staff to design and build artificial turf fields using the latest SFRPD criteria at the time of implementation, including the City's purchasing criteria.	Project sponsors for any fields proposing artificial turf, in consultation with City Fields Foundation and Recreation and Park Department	Prior to, and during, construction of recreational fields	Project sponsors to report to TIDA on latest SFRPC criteria TIDA to ensure appropriate materials are installed.		
Improvement Measure I-RE-3b The project sponsors are encouraged to work with the City Fields Foundation and Department of Public Health staff to develop signage that educates athletes and their families about the importance of washing hands before and after use of synthetic turf fields and the importance of proper wound care for turf-related injuries.	Project sponsors in consultation with City Fields Foundation and SF Department of Public Health	Signage to be installed prior to opening of recreational fields and maintained during operation	Project sponsors to review signage with TIDA and SF DPH TIDA to ensure signage is installed and maintained		
Improvement Measure I-RE-3c The project sponsors are encouraged to work with the City Fields Foundation and Department of Public Health staff to develop an air quality monitoring program for the proposed synthetic turf fields that would follow a methodology developed by the Office of Environmental Health Hazard Assessment or the U.S. EPA. The methodology would include, but is not limited to, capturing air quality samples at an outdoor field and upwind of the field; identifying the heights above the field where samples are captured; and recording weather data such as ambient and field temperatures, wind speed/direction, and humidity.	Project sponsors and air quality monitoring consultant, in consultation with City Fields Foundation and SF Department of Public Health	During operation of recreational fields	monitoring reports to be submitted to TIDA and SFDPH		

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