

Appendix 1 Environmental Impact and Mitigation Register

Appendix 1A
Environmental Impact and Mitigation Register - BBNP

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Residents staying adjacent / near to the proposed project	Construction	Potential human annoyance to receptors residing in the vicinity of the construction footprint.	Priority 2	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Negligible	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>> Restricted Working Hours (RWH): The Contractor shall ensure that general construction activities are confined to daytime (0800-1800 hours) only, Monday to Saturday for all parks, while noisy activities are only limited to 1000 – 1700 hours for BBNP.</p> <p>> The noise levels should not exceed the maximum permissible noise levels for construction set out in the Schedule to the Environmental Protection and Management (Control of Noise at Construction Sites) Regulations, and the project-specific maximum permissible noise levels of 75 dB (Leq 1 hour) and 90 dB (Leq 5 min) at the boundary.</p> <p>> The Contractor shall ensure that hoarding is installed around the work zones to reduce noise propagation to surrounding area.</p> <p>> The Contractor shall ensure that workers are trained in noise-reduction behaviours such as reducing the drop height of materials, and turning off equipment and vehicle engines when not in use.</p>	Negligible	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Human	Park visitors / Member of public	Construction	Potential human health impact due to exposure to excessive noise to park visitors / member of public	Priority 3	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Negligible	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>> Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during demolition activities.</p> <p>> The Contractor shall select quieter construction equipment and construction methods in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex G where necessary to achieve the permissible noise limits.</p>	Negligible	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Fauna	Species that use sounds for communication, foraging, and breeding, or are known to have their behaviours disrupted by sound, and are of conservation significance > Birds, non-volant mammals and bats of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 1	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	High	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>> The Contractor shall deploy quiet models of construction equipment i.e. generators, compressors, excavators. Where there are no quieter models, the Contractor shall demonstrate so under the submission of Quiet Machine/ Equipment List. Quieter models are defined as those having sound pressure levels at least 5 dB quieter than other models readily available locally, when measured 1 m from the equipment body while the equipment is operating at its rated load.</p> <p>> Provide acoustic shed / enclosure for construction equipment, where viable.</p> <p>> Site noisy machinery or equipment Plant away from the nearby noise sensitive receptors, where possible.</p>	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	High	Less Likely / Rare	Minor	<p>> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work</p> <p>> Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels</p> <p>> Conduct Weekly EMMP Inspection</p>
Fauna	Species that are less affected by airborne noise but are of conservation significance > Aculeate hymenopterans, odonates, butterflies, decapods and reptiles of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 2	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>> All machines and equipment shall be labelled with weatherproof stickers showing clearly its noise specification i.e. noise levels at 1m from source. The Contractor shall verify the performance using a Class 1 (Type 1) sound meter on all machines monthly at 1 m distance from source.</p> <p>> The Contractor shall ensure that vehicles and equipment are not left idling when not in use.</p> <p>> The Contractor shall ensure that all equipment and machinery is maintained and operated in a manner such that it does not give rise to excessive noise emissions. A list of equipment shall be submitted demonstrating consideration of alternatives.</p>	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	Medium	Less Likely / Rare	Minor	<p>> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work</p> <p>> Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels</p> <p>> Conduct Weekly EMMP Inspection</p>
Fauna	Species that are not of conservation significance > all other species	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 3	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>>The Contractor shall use quieter (non-percussive) piling methods, for example bored, jack-in or micropiling methods.</p> <p>> The Contractor shall install noise barriers around the work areas before any work commences assessment show that the stipulated noise criteria will be breached by the works. Noise barriers shall be in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex F Noise Control Techniques, Section F3.3 and the any specific noise mitigation measures to be stipulated by the Board. The noise barriers shall be designed to achieve a minimum reduction of 5 dB(A).</p> <p>> Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during piling activities.</p>	Minor	N/A	High	Low	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	> Residents staying adjacent / near to the proposed project > Students from the nearby schools	Construction	Potentially result in adverse impacts on air quality, and public and ecosystem health Potentially generate significant nuisance at receptors (human receptors) in the vicinity of the construction footprint/ proposed development.	Priority 1	Low - High	Earthwork footprint >10,000 m2, soil type with large grain size and total materials to be moved >20,000 tonnes - 100,000 tonnes	Low - High	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Ensure that hoarding is installed around the Project site or work areas to control the dispersion of dust. > Perform earthworks in phases to reduce the extent of exposed footprint at one time. > Ensure effective water suppression is used during demolition operations. > Minimize drop height. > Avoid crushing or screening of demolished construction material on-site. > Prepare an Earth Control Measures Plan. > Ensure that vehicles and equipment are not left idling when not in use. 	Minor - Moderate	A site-specific Air Pollution Control Plan ("APCP") should be developed to put in place measures such as establishing communications, implementation of site management measures, monitoring, etc.	Low - High	Low - High	Less Likely / Rare	Minor	<ul style="list-style-type: none"> > Conduct pre-construction ambient air baseline monitoring for seven (7) days, one (1) month before commencement of construction work by installing real time continuous 24-hour "live" monitoring devices to monitor the PM10 and PM2.5 levels > In the event of a valid complaint, once a month for as long as the particular complaint related construction activity continues. > Conduct Weekly EMMP Inspection
Human	Park visitors / Member of public	Construction	Potentially result in adverse impacts on air quality, and public and ecosystem health Potentially generate significant nuisance at receptors (human receptors) in the vicinity of the construction footprint/ proposed development.	Priority 3	Low - High	Earthwork footprint >10,000 m2, soil type with large grain size and total materials to be moved >20,000 tonnes - 100,000 tonnes	Very Low - Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Maintain and operate all equipment and machinery in a manner such that it does not give rise to smoke emissions, and ensure emissions comply with the Environmental Protection and Management (Vehicular Emissions) Regulations or Environmental Protection and Management (Off-Road Diesel Engine Emissions) Regulations 2012, if applicable. > A list of equipment shall be submitted demonstrating consideration of alternatives. > Ensure that truck loads carrying dry materials (such as cement, sand, aggregate, soil etc.) into the construction area will be covered. > Periodically wet the unpaved temporary access roads to prevent dust propagation. > Ensure that workers clean up any spoil/earth spillage onto the haulage routes immediately and undertake proper housekeeping of the construction site, as well as roadways linked to the entrances of the worksites, to ensure that roadways, vehicle wheels and equipment tracks are clear of dust or mud, and that appropriate barriers, tarpaulin covers/erosion blankets (fully biodegradable, wildlife-friendly) have been repaired and/or reinstated. 	Minor	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> > Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	N/A	Priority 2	Low - High	Earthwork footprint >10,000 m2, soil type with large grain size and total materials to be moved >20,000 tonnes - 100,000 tonnes	Very Low - Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Impose a maximum-speed-limit of 25 kilometres per hour (km/hr) on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas. > Ensure all stockpiles of demolished items, debris or good earth / aggregates are covered under canvas sheets or erosion control blankets (fully biodegradable, wildlife-friendly). > Minimise the volume of spoil stockpiled and potential for dust generation and erosion/runoff, schedule removal of spoil from the contract area at least once every five (5) days. 	Minor - Moderate	A site-specific Air Pollution Control Plan ("APCP") should be developed to put in place measures such as establishing communications, implementation of site management measures, monitoring, etc.	Low - High	Very Low - Medium	Less Likely / Rare	Negligible - Minor	<ul style="list-style-type: none"> > Conduct pre-construction ambient air baseline monitoring for seven (7) days, one (1) month before commencement of construction work by installing real time continuous 24-hour "live" monitoring devices to monitor the PM10 and PM2.5 levels > In the event of a valid complaint, once a month for as long as the particular complaint related construction activity continues. > Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Visitors / members of public	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 3	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Practice due diligence in proper storage and handling of machinery to prevent release of chemicals, fuels or other potentially harmful materials. > Transfer of fuel shall be done over contaminant trays and mats to prevent spillage into the ground. > Ensure oil-containing equipment or machineries are inspected for leaks before being put into use. > Provide emergency spill kits on site in the event of any fuel spillages. The emergency response team shall also be competent in the use of these spill kits. > Chemical and fuel in drums, carboys, containers, etc shall be stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > A full containment should be provided for bulk storage oil tanks, including skid tanks. > Ensure all hazardous substance and chemical containers are labelled as per the GHS requirement > Ensure a chemical inventory is maintained to track the movement of all hazardous substance and chemicals. > Return the chemicals back to its designated storage areas when not in use. > Transfer of chemicals shall be done over contaminant trays and mats to prevent spillage into the ground. > All leaks and spillages in the storage area or construction site shall be collected and sent to a licensed toxic waste collector for proper disposal. > Provide emergency spill kits on site in the event of any chemical spillages. The emergency response team shall also be competent in the use of these spill kits. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 2	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Ensure toxic industrial wastes (TIWs) are stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > Maintains a TIW register, which is to be updated on a weekly basis. > TIW shall be collected regularly by a licensed TIW collector for off-site disposal. > Ensure leaks and spillages in the TIW storage area or construction site are collected and sent to a licensed toxic waste collector for proper disposal. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Water Body	West-flowing stream at the southern boundaries of Areas B1 and C1	Construction	<p><u>Hydrology:</u></p> <ul style="list-style-type: none"> > Increased stormwater peak flow contributions to the channel can lead to increased water level and subsequent flooding of surrounding areas adjacent to the stream/drain due to the land use change from land clearing; and > Stormwater run-off from exposed and unstable slopes may cause soil erosion. <p><u>Water contamination:</u></p> <ul style="list-style-type: none"> > Elevated levels of suspended solids leading to increased turbidity and sedimentation rates, solid waste, toxic material, etc; and > Increase in the levels of oil, grease, and other chemical substances. <p><u>Liquid effluent generation:</u></p> <ul style="list-style-type: none"> > Inappropriate discharge of wastewater to the watercourse will result in contamination in nearby water sources; and > Inappropriate discharge of domestic sewage and poor maintenance of the portable toilet (e.g. overflow or overload) can result in run-off to nearby water sources and potentially contaminate the waterbodies located adjacent to the construction sites. <p><u>Solid wastes:</u></p> <ul style="list-style-type: none"> > Solid waste generated can lead to elevated levels of suspended solids entering water-bodies via run-off or improper handling/disposal. > Improper storage, handling, disposal or leakage of toxic waste generated at temporary work areas can lead to water contamination. <p><u>Improper management of chemical substances:</u></p> <ul style="list-style-type: none"> > Contaminated stormwater due to improper storage/disposal/transport of chemical materials handled and stored on site leading to an increase in the levels of oil, grease and other chemical substances in the nearby waterbodies; and > Fuel and lubricants spillage from maintenance of construction vehicles and mechanical equipment can also lead to elevation in levels of oil in the nearby waterbodies. 	Priority 1	Medium	<p>The construction of the Stream Loop is not expected to have significant impacts to the existing stream.</p> <p>The location of the proposed trail is sufficiently separated and buffered from the existing stream.</p> <p>Only a small segment bypasses the stream on the southeast corner of B. The spatial extent of exposed earth at any point in time is highly limited, relative to the broader catchment area of the stream.</p>	Medium	Less Likely / Rare	Not expected to happen at construction sites, upon implementation of minimum controls	<p>All work must comply to the PUB, Singapore's National Water Agency's Code of Practice on Surface Water Drainage, particularly Section 6 – Requirements for Construction Activities. The key relevant requirements are highlighted below.</p> <p><u>General</u></p> <ul style="list-style-type: none"> > The execution of any work shall not change, disrupt, fill, block, divert or disturb the existing overland flow or the existing system of drains unless an alternative drainage system has been approved by PUB. > The runoff within, upstream of and adjacent to the worksite shall be effectively drained away without causing drainage problems within the worksite or in areas outside the worksite. > Bunds of stockpiled materials such as earth from trench work shall not be longer than 10 m and gaps of at least 1 m width shall be provided between the bunds to allow the free flow of surface runoff. > Material from any stockpile shall not be allowed to fall or be washed into the drain. <p><u>Earth Control Measures</u></p> <ul style="list-style-type: none"> > Water quality parameter compliance: The discharge from any construction / earthwork sites into storm water drainage system shall not contain Total Suspended Solids ("TSS") in concentrations greater than, the prescribed limits under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations. > Minimal or no discharge: Wherever possible, a construction / earthwork site should practise recycling of water. The recycled water could be used for non-potable purposes to minimise discharge into the stormwater drainage systems. > Design criteria: The Erosion Control Measures ("ECM") shall be designed to cope with a minimum design rainfall intensity of a return period of 1 in 5 years storm. > ECM installation before commencement of work: The ECM shall be installed by the site operator / contractor according to the endorsed plans and the completed ECM at site shall be approved by the Qualified Erosion Control Professional ("QECP") before commencement of construction and earthworks. > The site operator/contractor shall ensure that the ECM designed and installed shall be continuously reviewed by the QECP for every stage of the earthworks and construction. The ECM shall remain effective throughout the whole duration of works. The site operator/contractor shall add or amend the ECM at the site according to the design of the QECP. 	Minor	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> > Perform real-time TSS monitoring > Monitor water quality at the natural stream and quarry lakes on-site on a monthly basis during the period of in-water or near-water > Conduct Weekly EMMP Inspection
Water Body	Poh Kim Quarry Lake	Construction	<p><u>Improper management of chemical substances:</u></p> <ul style="list-style-type: none"> > Contaminated stormwater due to improper storage/disposal/transport of chemical materials handled and stored on site leading to an increase in the levels of oil, grease and other chemical substances in the nearby waterbodies; and > Fuel and lubricants spillage from maintenance of construction vehicles and mechanical equipment can also lead to elevation in levels of oil in the nearby waterbodies. 	Priority 2	Medium	<p>Proximity of construction activities to the water. Water level, flow rates, and erosion risk not expected to change measurably within the quarry lake.</p>	Low	Less Likely / Rare	Not expected to happen at construction sites, upon implementation of minimum controls	<p><u>Guidelines of effective ECM</u></p> <p>An effective ECM requires 2 components which shall include, but is not limited to, the following minimum measures in order to meet the legal requirements cited under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations:</p> <ul style="list-style-type: none"> > Erosion Control Measures: The erosion control measures shall minimise the extent and duration of any exposed /bare / erodible surfaces by proper work sequencing, covering up of all bare/erodible surfaces and progressive and timely revegetation and stabilisation. > Sediment Control Measures: The sediment control measures shall trap, contain and treat the silty discharges from within a construction / earthworks site (including rain, runoff, water from wash bay, underground water at basement, etc.) by providing: perimeter cut-off drain, perimeter silt fence, intermediate silt trap, sedimentation basin or storage pond/tank, treatment system, turbidity curtains, wheel wash. 	Minor	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> > Perform real-time TSS monitoring > Monitor water quality at the natural stream and quarry lakes on-site on a monthly basis during the period of in-water or near-water > Conduct Weekly EMMP Inspection 	

Receptor Type	Type	Recorded	Receptor (Scientific Name)	Receptor (Common Name)	Global Status (IUCN/CITES)	National Status	Recorded Species	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual Impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Susceptible to injury and mortality during bamboo felling	High	Likely	Bamboo clusters located within impact zones	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Major	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Conduct bamboo bat rescue and translocation	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Susceptible to injury and mortality during bamboo felling	High	Likely	Bamboo clusters located within impact zones	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Major	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Conduct bamboo bat rescue and translocation	High	High	Less likely	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Not Expected to Occur	Negligible

Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Normada malayana</i>	NA	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Norma apicalis</i>	NA	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Nisaeetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Sumiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Caltonis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redevye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	Medium	Arboreal mammal - mobile but possibly susceptible	Medium	Less Likely	Not known to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Accidental injury or mortality	High	High	Attracted to construction sites	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	Yes	<i>Anyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Accidental injury or mortality	High	Low	Aquatic - low susceptibility	Low	Possible	Impact could possibly happen or known to occur during the construction phase of stream restoration	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor

Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Medium	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Medium	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		High	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Medium	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Low	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Low	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor

Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Helopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	Medium	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	Medium	Less likely	Minor

Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Calloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioli</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio proxaspes proxaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Vagrans sirha sirha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Low	Very Low	Not Expected to Occur	Negligible	
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Low	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Human disturbance	High	High	Extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	

Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	

Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Human disturbance	High	Medium	Sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor

Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Surmiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageiadas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidine blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor	
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor	
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor	
																> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited						

Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Callophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Less Likely	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor

Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas ? Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor		High	High	Less likely	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lasiglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible		Negligible	Very Low	Less likely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor		Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor		Medium	Medium	Less likely	Minor

Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Haliaeetus ichthyaetus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimita antimita</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Callotis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Construction	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Negligible	Aquatic - not sensitive	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Light disturbance	High	Medium	Diurnal mammal	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Light disturbance	High	Medium	Diurnal mammal	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Medium	Crepuscular odonate	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor

Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal reptile	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal reptile	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Light disturbance	High	Medium	Diurnal reptile	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Lasiglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible	

Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Haliaeetus ichhyaetus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Helopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltonis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not expected to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor

Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Considerable changes in waterbody that may affect connectivity for aquatic species	High	Not Expected to Occur	Impact is not likely to happen during stream restoration as watercourse is not adversely affected	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not expected to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact could possibly happen or has been known to occur during construction	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Considerable changes in waterbody that may affect connectivity for aquatic species	High	Possible	happen or has been known to occur during construction	Moderate	> Avoid changes to watercourses	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Considerable changes in waterbody that may affect connectivity for aquatic species	High	Possible	happen or has been known to occur during construction	Moderate	> Avoid changes to watercourses	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	Impact is not likely to happen during construction	Minor	Medium	Medium	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	Impact is not likely to happen during construction	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat, 2 bamboo clusters affected	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat, 2 bamboo clusters affected	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate

Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP 	Low	Low	Certain	Moderate

Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded reideye	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Quarry QB	Very Low	Not Expected to Occur	Quarry QB is not affected by construction	Negligible		Low	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Quarry QB	Very Low	Not Expected to Occur	Quarry QB is not affected by construction	Negligible		Low	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable: CITES protected (Appendix II)	Vulnerable	Yes	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of Stream SB1a (habitat enhancement only)	Very Low	Not Expected to Occur	NA	Negligible	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate

Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play area, Quarry Trail) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > For trail construction, only understory plants are removed when necessary, and replanted elsewhere in BBNP	Low	Low	Certain	Moderate
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened: CITES protected (Appendix II)	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible		Low	Low	Not Expected to Occur	Negligible

Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Expected to Occur	No new buildings	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Surmiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor

Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Expected to Occur	No new buildings	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Calloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachlopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Aquatic - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Accidental injury or mortality	High	Medium	Arboreal mammal - mobile but possibly susceptible to roadkills	Medium	Less Likely	Adjacent roads already experience high traffic volumes	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	Medium	Arboreal mammal - mobile but possibly susceptible to roadkills	Medium	Less Likely	Adjacent roads already experience high traffic volumes	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Accidental injury or mortality	High	High	Known to cross roads - highly susceptible to roadkills	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Priodontailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Coperia vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Accidental injury or mortality	High	Low	Aquatic - low susceptibility	Low	Not Expected to Occur	Not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Adjacent roads already experience high traffic volumes	Minor	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	Medium	Medium	Less likely	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	

Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor

Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	High	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	Medium	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Spiromis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Surmiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor

Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caltois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyræ</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		High	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastris everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible		Low	Very Low	Not Expected to Occur	Negligible

Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Low	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Human disturbance	High	High	Sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Medium	Low	Less likely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor

Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor

Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation		Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	Negligible	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Impact is not likely to happen during operation	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Impact is not likely to happen during operation	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation		Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation		Minor		Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor	

Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	Impact is not expected to happen during operation	Wildlife-human coexistence education programs	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation		Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation		Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Impact is not likely to happen during operation		Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor		High	High	Not Expected to Occur	Minor	

Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor

Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor

Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor

Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Sumiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Asictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyræ</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Nacaduba pactorius odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachiopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Telicota colton stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor

Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Light disturbance	High	Low	Species that are slightly sensitive to changes in light levels	Low	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor

Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Light disturbance	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Light disturbance	High	Medium	Species that are sensitive to changes in light levels	Medium	Not Expected to Occur	Lighting will only be provided along Quarry Trail and the southern part of Stream Loop, which are currently lit (i.e., worse off from baseline).	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalos</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor

Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Sumiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tallless oakblue	Not Assessed	Nationally Extinct	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor

Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Callotis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Considerable changes in waterbody that may affect connectivity for aquatic species	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Expected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Priailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	High	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Expected to Occur	No major new buildings	Negligible	High	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor

Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Expected to Occur	No major new buildings	Minor	Medium	Medium	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Expected to Occur	No major new buildings	Minor	High	High	Not Expected to Occur	Minor	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	Yes	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Yes	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasiglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	No	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	No	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Yes	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Heliopais personatus</i>	Masked finfoot	Endangered	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	No	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Yes	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded reyeve	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	Yes	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Yes	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Decapod	No	<i>Geosesarma peraccae</i>	Peracca's land crab	Not Assessed	Vulnerable	No	Operational	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Yes	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	No	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Non-volant mammal	No	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor

Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Vestalis amethystina</i>	Common flashwing	Not Assessed	Vulnerable	No	Operational	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	Yes	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Yes	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Calliophis bivirgatus</i>	Malayan blue coral snake	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	No	Operational	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	No	Operational	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Receptor Type	Type	Habitat	Phase	Impact type	Impact category	Sensitivity (S)	Key minimum controls	Impact intensity (I)	Reason	Consequence (C × I)	Likelihood (L)	Reason	Impact significance (C × I)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Loss of habitat	Direct	Priority 1	Hoarding installation, TPZ installation, daily checks by EM	Low	< 10%	Low	Certain	Overlaps with slope stabilisation worksite	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance, Plaza and Nature Play, Quarry Trail) > For worksites involving manual work only (i.e., trails, boardwalks, stream edge enhancement), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance	Low	Low	Certain	Moderate
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Construction	Loss of habitat	Direct	Priority 2		Low	< 10%	Very Low	Certain	Overlaps with slope stabilisation worksite	Minor		Low	Very Low	Certain	Minor
Habitat	Terrestrial	Abandoned kampong and/or plantation	Construction	Loss of habitat	Direct	Priority 2		Low	< 10%	Very Low	Certain	Overlaps with worksite	Minor		Low	Very Low	Certain	Minor
Habitat	Terrestrial	Grassland	Construction	Loss of habitat	Direct	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Construction	Loss of habitat	Direct	Priority 3		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Construction	Loss of habitat	Direct	Priority 3		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Loss of habitat	Direct	Priority 3		Medium	10-40%	Very Low	Certain	Overlaps with worksite	Minor		Medium	Very Low	Certain	Minor
Habitat	Aquatic	Stream B1a	Construction	Loss of habitat	Direct	Priority 2		Negligible	No loss (stream enhancement only)	Imperceptible	Unlikely	No loss (stream enhancement only)	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Stream B2a	Construction	Loss of habitat	Direct	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Stream B2b	Construction	Loss of habitat	Direct	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QB	Construction	Loss of habitat	Direct	Priority 2		Negligible	No loss (boardwalk)	Imperceptible	Unlikely	No loss (boardwalk)	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Habitat degradation	Indirect	Priority 1		Medium	17.7% (1.40 ha)	Medium	Less likely	Minimum controls	Minor		Medium	Medium	Less likely	Minor
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Construction	Habitat degradation	Indirect	Priority 2		Medium	10.0% (1.18 ha)	Low	Less likely	Minimum controls	Minor		Medium	Low	Less likely	Minor
Habitat	Terrestrial	Abandoned kampong and/or plantation	Construction	Habitat degradation	Indirect	Priority 2		Low	4.4% (0.81 ha)	Very Low	Less likely	Minimum controls	Negligible		Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Grassland	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Construction	Habitat degradation	Indirect	Priority 3	ECM implementation, proper stockpiling, DCM implementation, ensure noise levels within approved limits, daily checks by EM, avoid fogging	Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Habitat degradation	Indirect	Priority 3		Medium	36.3% (2.03 ha)	Very Low	Less likely	Minimum controls	Negligible		Medium	Very Low	Less likely	Negligible
Habitat	Aquatic	Stream B1a	Construction	Habitat degradation	Indirect	Priority 2		Medium	Considerable reduction in surface water quality	Low	Less likely	Minimum controls	Minor		Medium	Low	Less likely	Minor
Habitat	Aquatic	Stream B2a	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Stream B2b	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QB	Construction	Habitat degradation	Indirect	Priority 2		Medium	Considerable reduction in surface water quality	Low	Less likely	Minimum controls	Minor		Medium	Low	Less likely	Minor
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Formation of edge effects	Indirect	Priority 1		Low	< 10% increase in P/A	Low	Less likely	Small development (simple interventions)	Minor		Low	Low	Less likely	Minor
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Construction	Formation of edge effects	Indirect	Priority 2		Low	< 10% increase in P/A	Very Low	Less likely	Small development (simple interventions)	Negligible		Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Abandoned kampong and/or plantation	Construction	Formation of edge effects	Indirect	Priority 2		Low	< 10% increase in P/A	Very Low	Possible	Considerable development (main entrance)	Minor		Low	Very Low	Possible	Minor
Habitat	Terrestrial	Grassland	Construction	Formation of edge effects	Indirect	Priority 2		Negligible	No change	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Construction	Formation of edge effects	Indirect	Priority 3		Negligible	No change	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Construction	Formation of edge effects	Indirect	Priority 3	NA	Negligible	No change	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Formation of edge effects	Indirect	Priority 3		Medium	10-40% increase in P/A	Very Low	Possible	Considerable development (main entrance)	Minor		Medium	Very Low	Possible	Minor
Habitat	Aquatic	Stream B1a	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	NA	NA	Negligible		NA	NA	NA	Negligible
Habitat	Aquatic	Stream B2a	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	NA	NA	Negligible		NA	NA	NA	Negligible
Habitat	Aquatic	Stream B2b	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	NA	NA	Negligible		NA	NA	NA	Negligible
Habitat	Aquatic	Quarry Lake QB	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	NA	NA	Negligible		NA	NA	NA	Negligible
														> Put up signages to remind visitors not to litter or pollute the habitats > Carry out regular maintenance of the park (e.g., removal of litter, emptying of trash, ensure integrity of railings along trails and boardwalks > Conduct regular patrols to deter visitors from straying off-trail				
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Habitat degradation	Indirect	Priority 1		Medium	17.7% (1.40 ha)	Medium	Less likely	Reconfiguration of activity spaces to consolidate peripheral spaces to the plaza area will reduce human access to the habitat	Minor		Medium	Medium	Less likely	Minor
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Operational	Habitat degradation	Indirect	Priority 2		Medium	10.0% (1.18 ha)	Low	Possible	Trail (people can still stray off track)	Minor		Medium	Low	Less likely	Minor
Habitat	Terrestrial	Abandoned kampong and/or plantation	Operational	Habitat degradation	Indirect	Priority 2		Low	4.4% (0.81 ha)	Very Low	Possible	Trail (people can still stray off track)	Minor		Medium	Very Low	Less likely	Negligible
Habitat	Terrestrial	Grassland	Operational	Habitat degradation	Indirect	Priority 2	Avoid fogging	Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Operational	Habitat degradation	Indirect	Priority 3		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Operational	Habitat degradation	Indirect	Priority 3		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Operational	Habitat degradation	Indirect	Priority 3		Medium	36.3% (2.03 ha)	Very Low	Possible	Trail (people can still stray off track)	Minor		Medium	Very Low	Less likely	Negligible
Habitat	Aquatic	Stream B1a	Operational	Habitat degradation	Indirect	Priority 2		Low	Some reduction in surface water quality	Very Low	Possible	Trail (people can still stray off track), albeit surface runoff controlled and littering not expected	Minor		Low	Very Low	Less likely	Negligible
Habitat	Aquatic	Stream B2a	Operational	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Stream B2b	Operational	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QB	Operational	Habitat degradation	Indirect	Priority 2		Low	Some reduction in surface water quality	Very Low	Less likely	Boardwalk with railing, surface runoff controlled and littering not expected	Negligible		Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Changes in microclimatic conditions	Indirect	Priority 1		Medium	17.7% (1.40 ha)	Medium	Unlikely	Development is largely green	Negligible		Medium	Medium	Unlikely	Negligible
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Medium	10.0% (1.18 ha)	Low	Unlikely	Development is largely green	Negligible		Medium	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Abandoned kampong and/or plantation	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	4.4% (0.81 ha)	Very Low	Unlikely	Development is largely green	Negligible		Medium	Low	Unlikely	Negligible
Habitat	Terrestrial	Grassland	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Operational	Changes in microclimatic conditions	Indirect	Priority 3		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Operational	Changes in microclimatic conditions	Indirect	Priority 3	Ensure noise levels within approved limits, ensure dust levels within approved limits	Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Operational	Changes in microclimatic conditions	Indirect	Priority 3		Medium	36.3% (2.03 ha)	Very Low	Unlikely	Development is largely green	Negligible		Medium	Very Low	Unlikely	Negligible
Habitat	Aquatic	Stream B1a	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	6.7% (0.01 ha, but concretised)	Very Low	Unlikely	Development is largely green	Negligible		Low	Very Low	Unlikely	Negligible
Habitat	Aquatic	Stream B2a	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Stream B2b	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Negligible	No overlap	Imperceptible	Unlikely	No development	Negligible		Negligible	Imperceptible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QB	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	2.30% (0.03 ha)	Very Low	Unlikely	Development is largely green	Negligible		Low	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 1		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Ioned kampong and/or plantation with native recu	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Abandoned kampong and/or plantation	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Grassland	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Scrubland	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Farm	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Terrestrial	Urban vegetation	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
Habitat	Aquatic	Stream B1a	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Medium	Change balance of native vs exotic	Low	Less likely	Already accessible to public	Minor		Medium	Low	Less likely	Minor
Habitat	Aquatic	Stream B2a	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Medium	Change balance of native vs exotic	Low	Less likely	No development	Minor		Medium	Low	Less likely	Minor
Habitat	Aquatic	Stream B2b	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		High	Detrimental to native-dominated habitat	Medium	Less likely	No development	Minor		High	Medium	Less likely	Minor
Habitat	Aquatic	Quarry Lake QB	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Low	Some impact to exotic-dominated habitat	Very Low	Certain	For members of public to visit, accessible to public	Minor		Low	Very Low	Certain	Minor

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Flora	Indirect	<i>Antidesma coriaceum</i>	Construction	Decline in plant health	High	High	All specimens (1 specimen) affected indirectly by slope stabilisation works	High	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Major	<ul style="list-style-type: none"> > Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist 	High	High	Possible	Moderate
Flora	Direct	<i>Camptosperma auriculatum</i>	Construction	Mortality	High	Negligible	6/51 (<10%) specimen affected directly by development of boardwalk, trails and slope stabilization works	Very Low	Certain	Specimen located on the proposed footprint of worksite		Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	No change	No change	No change	Minor
Flora	Direct	<i>Strombosia javanica</i>	Construction	Mortality	High	Negligible	6/168 (<10%) specimen affected directly by development of boardwalk, trails and slope stabilization works	Very Low	Certain	Specimen located on the proposed footprint of worksite		Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	No change	No change	No change	Minor
Flora	Direct	<i>Canthiumera robusta</i>	Construction	Mortality	High	High	All specimens (only 1 recorded across entire Study Area) affected directly by slope stabilization	High	Certain	Specimen located on the proposed footprint of worksite		Major	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible

Flora	Indirect	<i>Aporosa benthamiana</i>	Construction	Decline in plant health	High	Low	19/128 specimens affected indirectly by development	Low	Less likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Clerodendrum villosum</i>	Construction	Decline in plant health	High	Low	3/18 specimens affected indirectly by development of boardwalk/trails, stream edge enhancement and slope stabilisation works respectively	Low	Less likely	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats and changes to hydrology	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Guioa pubescens</i>	Construction	Decline in plant health	High	Low	6/56 specimen affected indirectly by development of boardwalk/trails near edge of quarry and slope stabilisation works	Low	Less likely	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Strombosia javanica</i>	Construction	Decline in plant health	High	Low	29/162 specimens affected indirectly by all types of development except the main entrance	Low	Less likely	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats and changes to hydrology	Implement soil erosion control measures	Minor		No change	No change	No change	Minor
Flora	Indirect	<i>Dialium platysepalum</i>	Construction	Decline in plant health	High	Medium	4/7 specimens affected indirectly by development of boardwalk/trails	Medium	Less likely	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats (for specimens affected by development of raingarden)	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Lindera lucida</i>	Construction	Decline in plant health	High	Negligible	1/34 (<10%) specimen affected by slope stabilisation works	Very Low	Possible	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works		Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Very Low	No change	Minor
Flora	Indirect	<i>Tetracera fagifolia var. borneensis</i>	Construction	Decline in plant health	High	Negligible	1/24 (<10%) specimen affected indirectly by slope stabilisation works	Very Low	Possible	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Very Low	Possible	Minor

Flora	Indirect	<i>Canarium patentinervium</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of boardwalk/trail	High	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Cratogeomys formosum</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of boardwalk/trail	High	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Elaeocarpus ferrugineus ssp. ferrugineus</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of boardwalk/trail	High	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Ficus cf. rumphii</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of main entrance	High	Not Expected to Occur	Developments will be done at existing built-up area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Gnetum cf. microcarpum</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of boardwalk/trail	High	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Salacia cf. korthalsiana</i>	Construction	Decline in plant health	High	High	1 specimen (the only specimen on site) will be indirectly affected by the development of plaza	High	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Ziziphus elegans</i>	Construction	Decline in plant health	High	Medium	1/2 specimens affected indirectly by boardwalk/trail	Medium	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Bambusa vulgaris</i>	Construction	Decline in plant health	High	Low	1/4 large bamboo specimens indirectly affected by development of main entrance	Low	Possible	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	<p>> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions</p> <p>> conduct regular inspections to ensure contractor compliance with the EMMP</p> <p>> Adjust design footprint to ensure Priority 1 plant species are not within the impact zones</p> <p>> Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist</p>			
Flora	Indirect	<i>Anodendron candolleianum</i>	Construction	Decline in plant health	High	Low	1/3 specimens affected indirectly by slope stabilisation works	Low	Likely	Formation of some forest edges in some forested area; plant specimens previously in forested areas now exposed to some edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	Low	Low	Possible	Minor
Flora	Indirect	<i>Beilschmiedia madang</i>	Construction	Decline in plant health	High	Low	1/10 specimens affected indirectly by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	Low	Low	Possible	Minor
Flora	Indirect	<i>Calophyllum tetrapterum</i>	Construction	Decline in plant health	High	Low	1/7 specimen indirectly affected by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	Low	Low	Possible	Minor

Flora	Indirect	<i>Dasymaschalon dasymaschalum</i>	Construction	Decline in plant health	High	Low	1/4 specimen indirectly affected by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor
Flora	Indirect	<i>Dibridsonia cf. conferta</i>	Construction	Decline in plant health	High	Low	1/4 specimen indirectly affected by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor
Flora	Indirect	<i>Ficus vasculosa</i>	Construction	Decline in plant health	High	Low	1/7 indirectly affected by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor
Flora	Indirect	<i>Agelaea macrophylla</i>	Construction	Decline in plant health	High	Low	3/29 specimens affected indirectly by slope stabilisation works	Low	Possible	Formation of some forest edges in some forested area; plant specimens previously in forested areas now exposed to some edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Hetaeria oblongifolia</i>	Construction	Decline in plant health	High	Low	1/7 will be indirectly affected by the slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor
Flora	Indirect	<i>Aidia densiflora</i>	Construction	Decline in plant health	High	Low	4/17 specimens indirectly affected by development of boardwalk/trail, plaza and slope stabilisation works	Low	Possible	Formation of some forest edges in some forested area; plant specimens previously in forested areas now exposed to some edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor

Flora	Indirect	<i>Knema communis</i>	Construction	Decline in plant health	High	Low	3/10 specimens affected by slope stabilization	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor
Flora	Indirect	<i>Garcinia forbesii</i>	Construction	Decline in plant health	High	Low	3/9 specimen will be indirectly affected by the development of boardwalk/trails and slope stabilisation works	Low	Possible	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Horsfieldia polyspherula</i> var. <i>polyspherula</i>	Construction	Decline in plant health	High	Low	2/15 specimens affected by development of boardwalk, trails and slope stabilisation works	Low	Possible	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Oncosperma tigillarum</i>	Construction	Decline in plant health	High	Low	2/20 specimens affected indirectly by development of nature play area and slope stabilisation works	Low	Possible	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Xanthophyllum vitellinum</i>	Construction	Decline in plant health	High	Low	2/7 specimens affected by the development slope stabilisation works	Low	Possible	Developments will be done at existing built up areas	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Xylopia malayana</i> var. <i>malayana</i>	Construction	Decline in plant health	High	Low	1/5 specimen affected indirectly by slope stabilisation works	Low	Likely	Formation of some forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats from slope stabilisation works	Implement soil erosion control measures	Moderate	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Low	Low	Possible	Minor

Flora	Direct	<i>Oxyceros cf. bispinosus</i>	Construction	Mortality	High	High	All specimens (only 1 recorded across entire Study Area) affected directly by slope stabilization	High	Certain	Specimen located on the proposed footprint of worksite	Major	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Strophanthus caudatus</i>	Construction	Mortality	High	High	1 specimen (the only specimen on site) will be indirectly affected by the slope stabilization works	High	Certain	Specimen located on the proposed footprint of worksite	Major	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Aidia densiflora</i>	Construction	Mortality	High	Low	3/20 specimens directly affected by slope stabilisation works	Low	Certain	Specimens located on the proposed footprint of worksite	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Bambusa vulgaris</i>	Construction	Mortality	High	Low	2/5 large bamboo specimens directly affected by slope stabilisation works	Low	Certain	Specimen located on the proposed footprint of worksite	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	No change	No change	No change	Moderate

Flora	Direct	<i>Aporosa benthamiana</i>	Construction	Mortality	High	Negligible	1/129 (<10%) specimens affected by development of boardwalk and trails	Very Low	Certain	Specimen located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Aspidopterys concava</i>	Construction	Mortality	High	Negligible	1/30 (<10%) specimens affected by development of boardwalk and trails	Very Low	Certain	Specimen located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Goniophlebium percussum</i>	Construction	Mortality	High	Negligible	1/11 (<10%) specimen affected directly by development of stream edge enhancement	Very Low	Certain	Specimen located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Guioa pubescens</i>	Construction	Mortality	High	Negligible	3/59 specimens directly affected by development of boardwalk, trails and slope stabilization works	Very Low	Certain	Specimens located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible

Flora	Direct	<i>Horsfieldia polyspherula</i> var. <i>polyspherula</i>	Construction	Mortality	High	Negligible	1/16 (<10%) specimens affected by slope stabilization	Very Low	Certain	Specimen located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Sandoricum koetjape</i>	Construction	Mortality	High	Low	1/3 specimens affected by development of the main entrance	Low	Certain	Specimen located on the proposed footprint of worksite	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Macaranga griffithiana</i>	Construction	Mortality	High	Negligible	2/37 (<10%) specimens affected directly by development of stream enhancement and boardwalk and trails	Very Low	Certain	Specimens located on the proposed footprint of worksite	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Direct	<i>Tetracera fagifolia</i> var. <i>borneensis</i>	Construction	Mortality	High	Negligible	1/25 (<10%) specimens affected directly by slope stabilization works	Very Low	Certain	No specimen will be affected by impact of mortality	Minor	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plan species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not Expected to Occur	Negligible
Flora	Indirect	<i>Adinandra dumosa</i>	Construction	Decline in plant health	High	Low	1/4 specimen affected indirectly by development of plaza and nature play area	Low	Not Expected to Occur	Developments will be done at existing built-up area. No trees will be cleared during construction.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Aglaia tomentosa</i> ssp. <i>cordata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Alangium griffithii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Anaxagorea javanica</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Angelesia splendens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Antidesma velutinsum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Aporosa cf. lucida var. lucida</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Aporosa frutescens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Archidendron clypearia</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Aspidopterys concava</i>	Construction	Decline in plant health	High	Negligible	1/29 (<10%) specimens affected indirectly by development of boardwalk/trail plaza	Very Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Baccaurea polyneura</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Bambusa bambos</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Bambusa heterostachya</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Breynia discigera</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Calophyllum ferrugineum var. ferrugineum:</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Calophyllum pulcherrimum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Calophyllum teysmannii var. teysmannii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Campnosperma auriculatum</i>	Construction	Decline in plant health	High	Negligible	2/50 (<10%) trees indirectly affected by development of boardwalk/trail	Very Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Causonis japonica</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Chonemorpha fragrans</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Cryptocarya griffithiana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Dacryodes cf. costata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Diplazium cf. phanerotis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Drepananthus cf. ridleyi</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Durio singaporensis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Elaeocarpus mastersii</i>	Construction	Decline in plant health	High	Negligible	1/6 (<10%) specimen affected indirectly by development of boardwalk/trail	Very Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Elaeocarpus nitidus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Elaeocarpus obtusus</i> ssp. <i>apiculatus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Elaeocarpus pedunculatus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Elaeocarpus petiolatus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Endospermum diadenum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Entada spiralis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus benghalensis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus caulocarpa</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus elastica</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus microcarpa</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus sagittata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus variegata</i>	Construction	Decline in plant health	High	Low	2/6 large specimen of this species will be indirectly affected by development of main plaza	Low	Not Expected to Occur	Developments will be done at existing built up area	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus villosa</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Garcinia cf. griffithii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Gluta cf. wallichii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Goniophlebium percussum</i>	Construction	Decline in plant health	High	Negligible	2/10 (<10%) specimens affected indirectly by development of main plaza and nature play area	Low	Not Expected to Occur	Developments will be done at existing built up area	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Guioa pleuropteris</i>	Construction	Decline in plant health	High	Low	2/6 specimens affected indirectly by the development of boardwalk/trail	Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Gymnacranthera farquhariana</i> var. <i>eugeniifolia</i>	Construction	Decline in plant health	High	Low	1/9 specimen affected indirectly by development of main plaza	Low	Not Expected to Occur	Developments will be done at existing built up area	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Gynochthodes rigida</i>	Construction	Decline in plant health	High	Negligible	8/159 (<10%) specimen affected indirectly by development of main plaza as well as boardwalk and trails	Low	Not Expected to Occur	Developments will be done at existing built up area	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Knema intermedia</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Knema malayana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Limacia scandens</i>	Construction	Decline in plant health	High	Low	2/7 specimens affected indirectly by development of boardwalk/trails	Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Litsea accedens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea grandis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea umbellata</i>	Construction	Decline in plant health	High	Negligible	5/33 (<10%) specimens affected indirectly by development of boardwalk/trail	Low	Not Expected to Occur	Developments will be done at existing pathway area.	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Lomariopsis lineata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga griffithiana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga hullettii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Maesa sumatrana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Melicope lunu-ankenda</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Memecylon cf. garcinioides</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Monocarpia maingayi</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Morinda elliptica</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Neolitsea cassia</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Nothaphoebe umbelliflora</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oxyceros longiflorus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Parishia insignis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Pellacalyx saccardianus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Piper ramipilum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Polyspora singaporeana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Popowia fusca</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Psychotria ovoidea</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Pternandra echinata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Rhodamnia cinerea</i>	Construction	Decline in plant health	High	Low	2/9 specimens affected indirectly by development of main entrance and boardwalk/trails	Low	Not Expected to Occur	Developments will be done at existing built up areas	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Rubus moluccanus var. angulosus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible

Flora	Direct	<i>Melicope lunu-ankenda</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Memecylon cf. garcinioides</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Monocarpia maingayi</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Morinda elliptica</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Neolitsea cassia</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Nothaphoebe umbelliflora</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oncosperma tigillarum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Oxyceros longiflorus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Parishia insignis</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Pellacalyx saccardianus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Piper ramipilum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Polyspora singaporeana</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Popowia fusca</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Psychotria ovoidea</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Pternandra echinata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Rhodamnia cinerea</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Rubus moluccanus var. angulosus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Salacia cf. korthalsiana</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Santiria apiculata var. apiculata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Santiria cf. rubiginosa var. rubiginosa</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Sterculia cf. coccinea</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Symplocos fasciculata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Tectaria semipinnata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Tetracera cf. akara</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Tetracera macrophylla</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Timonius wallichianus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Uncaria cordata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Uncaria longiflora var. pteropoda</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Xanthophyllum vitellinum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Xylopia malayana var. malayana</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Ziziphus calophylla</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Ziziphus elegans</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Canthiumera robusta</i>	Construction	Decline in plant health	High		Assuming the only specimen has been cleared during construction phase								
Flora	Indirect	<i>Oxyceros cf. bispinosus</i>	Construction	Decline in plant health	High		Assuming the only specimen has been cleared during construction phase								
Flora	Indirect	<i>Strophanthus caudatus</i>	Construction	Decline in plant health	High		Assuming the only specimen has been cleared during construction phase								
Flora	Indirect	<i>Hetaeria oblongifolia</i>	Operational	Poaching	High	High	Many specimens of this species could get stolen as plant possess charismatic properties (orchid flowers but only obvious when its flowering)	High	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Agelaea macrophylla</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor

Flora	Indirect	<i>Aglaia tomentosa ssp. cordata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Aidia densiflora</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Anaxagorea javanica</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Angelesia splendens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Aspidopterys concava</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Beilschmiedia madang</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Breynia discigera</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Calophyllum tetrapterum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Causonis japonica</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Chonemorpha fragrans</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Clerodendrum villosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Cryptocarya griffithiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Dasymaschalon dasymaschalum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Dialium platysepalum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Dibridsonia cf. conferta</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Drepananthus cf. ridleyi</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Elaeocarpus mastersii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are spread out, and accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Elaeocarpus nitidus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor

Flora	Indirect	<i>Elaeocarpus pedunculatus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Elaeocarpus petiolatus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Entada spiralis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Ficus sagittata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Ficus vasculosa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Garcinia cf. griffithii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Garcinia forbesii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Goniophlebium percussum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are spread out, and accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Guioa pleuropteris</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Guioa pubescens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Gynochthodes rigida</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Horsfieldia polyspherula</i> var. <i>polyspherula</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Knema communis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Knema intermedia</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Limacia scandens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Litsea umbellata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Macaranga griffithiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Macaranga hullettii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor

Flora	Indirect	<i>Maesa sumatrana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Melicope lunu-ankenda</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Memecylon cf. garcinioides</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Monocarpia maingayi</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Morinda elliptica</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Nothaphoebe umbelliflora</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Oncosperma tigillarum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Oxyceros longiflorus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Parishia insignis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Pellacalyx saccardianus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Piper ramipilum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Polyspora singaporeana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Popowia fusca</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Psychotria ovoidea</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Pternandra echinata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Rubus moluccanus var. angulosus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Santiria apiculata var. apiculata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Strombosia javanica</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor

Flora	Indirect	<i>Symplocos fasciculata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Tectaria semipinnata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Tetracera cf. akara</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Tetracera fagifolia var. borneensis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Tetracera macrophylla</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Uncaria cordata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Uncaria longiflora var. pteropoda</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Xanthophyllum vitellinum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Xylopiya malayana var. malayana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Lindera lucida</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor	Low	Low	No change	Minor
Flora	Indirect	<i>Aporosa benthamiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Aporosa cf. lucida var. lucida</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	No change	No change	No change	Minor
Flora	Indirect	<i>Aporosa frutescens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	No change	No change	No change	Minor

> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings)
 > Put up signages to remind visitors not to stray off-trail
 > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail
 > Conduct regular patrols to deter poaching activities
 > Transplant specimens of conservation significance away from publicly accessible areas

Flora	Indirect	<i>Archidendron clypearia</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Indirect	<i>Cratoxylum formosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Indirect	<i>Dacryodes cf. costata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Indirect	<i>Gymnacranthera farquhariana var. eugenifolia</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Indirect	<i>Litsea grandis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Indirect	<i>Neolitsea cassia</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor

Flora	Indirect	<i>Sandoricum koetjape</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	No change	No change	No change	Minor
Flora	Direct	<i>Durio singaporensis</i>	Operational	Poaching	High	Medium	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Medium	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Bambusa bambos</i>	Operational	Poaching	High	Medium	Some plant specimens of this species could get stolen (i.e., plant species with ethnobotanical value)	Medium	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor		No change	No change	No change	Minor
Flora	Indirect	<i>Bambusa heterostachya</i>	Operational	Poaching	High	Medium	Some plant specimens of this species could get stolen (i.e., plant species with ethnobotanical value)	Medium	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor		No change	No change	No change	Minor
Flora	Indirect	<i>Bambusa vulgaris</i>	Operational	Poaching	High	Medium	Some plant specimens of this species could get stolen (i.e., plant species with ethnobotanical value)	Medium	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Minor		No change	No change	No change	Minor
Flora	Indirect	<i>Alangium griffithii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Anodendron candolleianum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Antidesma coriaceum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor

Flora	Indirect	<i>Antidesma velinosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Baccaurea polyneura</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Calophyllum ferrugineum var. ferrugineum:</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Calophyllum pulcherrimum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Calophyllum teysmannii var. teysmannii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Canarium patentinervium</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor

Flora	Indirect	<i>Diplazium cf. phanerotis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Elaeocarpus ferrugineus ssp. ferrugineus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Elaeocarpus obtusus ssp. apiculatus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Ficus villosa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Gluta cf. wallichii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Gnetum cf. microcarpum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor

Flora	Indirect	<i>Knema malayana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Litsea accedens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Lomariopsis lineata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Salacia cf. korthalsiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Santiria cf. rubiginosa var. rubiginosa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Sterculia cf. coccinea</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor

Flora	Indirect	<i>Ziziphus calophylla</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Ziziphus elegans</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Less likely	BBNP already accessible to public	Minor	> Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Put up signages to remind visitors not to stray off-trail > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Conduct regular patrols to deter poaching activities > Transplant specimens of conservation significance away from publicly accessible areas	Low	Low	Less likely	Minor
Flora	Indirect	<i>Adinandra dumosa</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are spread out, and accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Camposperma auriculatum</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Endospermum diadenum</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus benghalensis</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus caulocarpa</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus cf. rumphii</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus elastica</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus microcarpa</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus variegata</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are clustered/spread out, and are accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Rhodamnia cinerea</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are spread out, and accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Timonius wallichianus</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Not Expected to Occur	Specimens are spread out, and accessible to members of public	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Canthiumera robusta</i>	Operational	Poaching	High		Assuming the only specimen has been cleared during construction phase									
Flora	Indirect	<i>Oxyceros cf. bispinosus</i>	Operational	Poaching	High		Assuming the only specimen has been cleared during construction phase									
Flora	Indirect	<i>Strophanthus caudatus</i>	Operational	Poaching	High		Assuming the only specimen has been cleared during construction phase									

Appendix 1B
Environmental Impact and Mitigation Register - BBTP

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Residents staying adjacent / near to the proposed project	Construction	Potential human annoyance to receptors residing in the vicinity of the construction footprint.	Priority 2	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Negligible	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Restricted Working Hours (RWH): The Contractor shall ensure that general construction activities are confined to daytime (0800-1800 hours) only, Monday to Saturday for all parks, while noisy activities are only limited to 1000 – 1700 hours for BBNP. > The noise levels should not exceed the maximum permissible noise levels for construction set out in the Schedule to the Environmental Protection and Management (Control of Noise at Construction Sites) Regulations, and the project-specific maximum permissible noise levels of 75 dB (Leq 1 hour) and 90 dB (Leq 5 min) at the boundary. > The Contractor shall ensure that hoarding is installed around the work zones to reduce noise propagation to surrounding area. > The Contractor shall ensure that workers are trained in noise-reduction behaviours such as reducing the drop height of materials, and turning off equipment and vehicle engines when not in use.	Negligible	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Human	Park visitors / Member of public	Construction	Potential human health impact due to exposure to excessive noise to park visitors / member of public	Priority 3	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Negligible	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during demolition activities. > The Contractor shall select quieter construction equipment and construction methods in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex G where necessary to achieve the permissible noise limits.	Negligible	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Fauna	Species that use sounds for communication, foraging, and breeding, or are known to have their behaviours disrupted by sound, and are of conservation significance > Birds, non-volant mammals and bats of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 1	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	High	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> The Contractor shall deploy quiet models of construction equipment i.e. generators, compressors, excavators. Where there are no quieter models, the Contractor shall demonstrate so under the submission of Quiet Machine/ Equipment List. Quieter models are defined as those having sound pressure levels at least 5 dB quieter than other models readily available locally, when measured 1 m from the equipment body while the equipment is operating at its rated load. > Provide acoustic shed / enclosure for construction equipment, where viable. > Site noisy machinery or equipment Plant away from the nearby noise sensitive receptors, where possible.	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	High	Less Likely / Rare	Minor	> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work > Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels > Conduct Weekly EMMP Inspection
Fauna	Species that are less affected by airborne noise but are of conservation significance > Aculeate hymenopterans, odonates, butterflies, decapods and reptiles of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 2	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> All machines and equipment shall be labelled with weatherproof stickers showing clearly its noise specification i.e. noise levels at 1m from source. The Contractor shall verify the performance using a Class 1 (Type 1) sound meter on all machines monthly at 1 m distance from source. > The Contractor shall ensure that vehicles and equipment are not left idling when not in use. > The Contractor shall ensure that all equipment and machinery is maintained and operated in a manner such that it does not give rise to excessive noise emissions. A list of equipment shall be submitted demonstrating consideration of alternatives. >The Contractor shall use quieter (non-percussive) piling methods, for example bored, jack-in or micropiling methods.	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	Medium	Less Likely / Rare	Minor	> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work > Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels > Conduct Weekly EMMP Inspection
Fauna	Species that are not of conservation significance > all other species	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 3	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> The Contractor shall install noise barriers around the work areas before any work commences assessment show that the stipulated noise criteria will be breached by the works. Noise barriers shall be in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex F Noise Control Techniques, Section F3.3 and the any specific noise mitigation measures to be stipulated by the Board. The noise barriers shall be designed to achieve a minimum reduction of 5 dB(A). > Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during piling activities.	Minor	N/A	High	Low	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	> Residents staying adjacent / near to the proposed project > Students from the nearby schools	Construction	Potentially result in adverse impacts on air quality, and public and ecosystem health Potentially generate significant nuisance at receptors (human receptors) in the vicinity of the construction footprint/ proposed development.	Priority 1	Negligible - Medium	Earthwork footprint >2,500 m ² - 10,000 m ² , moderately dusty soil type and total materials to be moved <5,000 tonnes	Very Low - Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Ensure that hoarding is installed around the Project site or work areas to control the dispersion of dust. > Perform earthworks in phases to reduce the extent of exposed footprint at one time. > Ensure effective water suppression is used during demolition operations. > Minimize drop height. > Avoid crushing or screening of demolished construction material on-site. > Prepare an Earth Control Measures Plan. > Ensure that vehicles and equipment are not left idling when not in use.	Minor - Moderate	A site-specific Air Pollution Control Plan ("APCP") should be developed to put in place measures such as establishing communications, implementation of site management measures, monitoring, etc.	Negligible - Medium	Very Low - Medium	Less Likely / Rare	Negligible - Minor	> Conduct pre-construction ambient air baseline monitoring for seven (7) days, one (1) month before commencement of construction work by installing real time continuous 24-hour "live" monitoring devices to monitor the PM10 and PM2.5 levels > In the event of a valid complaint, once a month for as long as the particular complaint related construction activity continues. > Conduct Weekly EMMP Inspection
Human	Park visitors / Member of public	Construction	Potentially result in adverse impacts on air quality, and public and ecosystem health Potentially generate significant nuisance at receptors (human receptors) in the vicinity of the construction footprint/ proposed development.	Priority 3	Negligible - Medium	Earthwork footprint >2,500 m ² - 10,000 m ² , moderately dusty soil type and total materials to be moved <5,000 tonnes	Negligible - Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Maintain and operate all equipment and machinery in a manner such that it does not give rise to smoke emissions, and ensure emissions comply with the Environmental Protection and Management (Vehicular Emissions) Regulations or Environmental Protection and Management (Off-Road Diesel Engine Emissions) Regulations 2012, if applicable. > A list of equipment shall be submitted demonstrating consideration of alternatives. > Ensure that truck loads carrying dry materials (such as cement, sand, aggregate, soil etc.) into the construction area will be covered. > Periodically wet the unpaved temporary access roads to prevent dust propagation. > Ensure that workers clean up any spoil/earth spillage onto the haulage routes immediately and undertake proper housekeeping of the construction site, as well as roadways linked to the entrances of the work sites, to ensure that roadways, vehicle wheels and equipment tracks are clear of dust or mud, and that appropriate barriers, tarpaulin covers/erosion blankets (fully biodegradable, wildlife-friendly) have been repaired and/or reinstated. > Impose a maximum-speed-limit of 25 kilometres per hour (km/hr) on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas.	Negligible - Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	N/A	Priority 2	Negligible - Medium	Earthwork footprint >2,500 m ² - 10,000 m ² , moderately dusty soil type and total materials to be moved <5,000 tonnes	Negligible - Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Ensure all stockpiles of demolished items, debris or good earth / aggregates are covered under canvas sheets or erosion control blankets (fully biodegradable, wildlife-friendly). > Minimise the volume of spoil stockpiled and potential for dust generation and erosion/runoff, schedule removal of spoil from the contract area at least once every five (5) days.	Negligible - Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual Impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Visitors / members of public	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 3	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Practice due diligence in proper storage and handling of machinery to prevent release of chemicals, fuels or other potentially harmful materials. > Transfer of fuel shall be done over contaminant trays and mats to prevent spillage into the ground. > Ensure oil-containing equipment or machineries are inspected for leaks before being put into use. > Provide emergency spill kits on site in the event of any fuel spillages. The emergency response team shall also be competent in the use of these spill kits. > Chemical and fuel in drums, carboys, containers, etc shall be stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > A full containment should be provided for bulk storage oil tanks, including skid tanks. > Ensure all hazardous substance and chemical containers are labelled as per the GHS requirement > Ensure a chemical inventory is maintained to track the movement of all hazardous substance and chemicals. > Return the chemicals back to its designated storage areas when not in use. > Transfer of chemicals shall be done over contaminant trays and mats to prevent spillage into the ground. > All leaks and spillages in the storage area or construction site shall be collected and sent to a licensed toxic waste collector for proper disposal. > Provide emergency spill kits on site in the event of any chemical spillages. The emergency response team shall also be competent in the use of these spill kits. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 2	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Ensure toxic industrial wastes (TIWs) are stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > Maintains a TIW register, which is to be updated on a weekly basis. > TIW shall be collected regularly by a licensed TIW collector for off-site disposal. > Ensure leaks and spillages in the TIW storage area or construction site are collected and sent to a licensed toxic waste collector for proper disposal. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Water Body	Seng Chew Quarry Lake	Construction	<p><u>Hydrology:</u></p> <ul style="list-style-type: none"> > Increased stormwater peak flow contributions to the channel can lead to increased water level and subsequent flooding of surrounding areas adjacent to the stream/drain due to the land use change from land clearing; and > Stormwater run-off from exposed and unstable slopes may cause soil erosion. <p><u>Water contamination:</u></p> <ul style="list-style-type: none"> > Elevated levels of suspended solids leading to increased turbidity and sedimentation rates, solid waste, toxic material, etc; and > Increase in the levels of oil, grease, and other chemical substances. <p><u>Liquid effluent generation:</u></p> <ul style="list-style-type: none"> > Inappropriate discharge of wastewater to the watercourse will result in contamination in nearby water sources; and > Inappropriate discharge of domestic sewage and poor maintenance of the portable toilet (e.g. overflow or overload) can result in run-off to nearby water sources and potentially contaminate the waterbodies located adjacent to the construction sites. <p><u>Solid wastes:</u></p> <ul style="list-style-type: none"> > Solid waste generated can lead to elevated levels of suspended solids entering waterbodies via run-off or improper handling/disposal. > Improper storage, handling, disposal or leakage of toxic waste generated at temporary work areas can lead to water contamination. <p><u>Improper management of chemical substances:</u></p> <ul style="list-style-type: none"> > Contaminated stormwater due to improper storage/disposal/transport of chemical materials handled and stored on site leading to an increase in the levels of oil, grease and other chemical substances in the nearby waterbodies; and > Fuel and lubricants spillage from maintenance of construction vehicles and mechanical equipment can also lead to elevation in levels of oil in the nearby waterbodies. 	Priority 2	Medium (water quality) Negligible (hydrology)	Proximity of construction activities to the water (in water construction activities). Spatially limited footprint of proposed viewing deck; low risk of erosion to quarry lake granite banks.	Low (water quality) Negligible (hydrology)	Less Likely / Rare	Not expected to happen at construction sites, upon implementation of minimum controls	<p>All work must comply to the PUB, Singapore's National Water Agency's Code of Practice on Surface Water Drainage, particularly Section 6 – Requirements for Construction Activities. The key relevant requirements are highlighted below:</p> <p><u>General</u></p> <ul style="list-style-type: none"> > The execution of any work shall not change, disrupt, fill, block, divert or disturb the existing overland flow or the existing system of drains unless an alternative drainage system has been approved by PUB. > The runoff within, upstream of and adjacent to the worksite shall be effectively drained away without causing drainage problems within the worksite or in areas outside the worksite. > Bunds of stockpiled materials such as earth from trench work shall not be longer than 10 m and gaps of at least 1 m width shall be provided between the bunds to allow the free flow of surface runoff. > Material from any stockpile shall not be allowed to fall or be washed into the drain. <p><u>Earth Control Measures</u></p> <ul style="list-style-type: none"> > Water quality parameter compliance: The discharge from any construction / earthwork sites into storm water drainage system shall not contain Total Suspended Solids ("TSS") in concentrations greater than, the prescribed limits under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations. > Minimal or no discharge: Wherever possible, a construction / earthwork site should practise recycling of water. The recycled water could be used for non-potable purposes to minimise discharge into the stormwater drainage systems. > Design criteria: The Erosion Control Measures ("ECM") shall be designed to cope with a minimum design rainfall intensity of a return period of 1 in 5 years storm. > ECM installation before commencement of work: The ECM shall be installed by the site operator / contractor according to the endorsed plans and the completed ECM at site shall be approved by the Qualified Erosion Control Professional ("QECP") before commencement of construction and earthworks. > The site operator/contractor shall ensure that the ECM designed and installed shall be continuously reviewed by the QECP for every stage of the earthworks and construction. The ECM shall remain effective throughout the whole duration of works. The site operator/contractor shall add or amend the ECM at the site according to the design of the QECP. <p><u>Guidelines of effective ECM</u></p> <p>An effective ECM requires 2 components which shall include, but is not limited to, the following minimum measures in order to meet the legal requirements cited under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations:</p> <ul style="list-style-type: none"> > Erosion Control Measures: The erosion control measures shall minimise the extent and duration of any exposed /bare / erodible surfaces by proper work sequencing, covering up of all bare/erodible surfaces and progressive and timely revegetation and stabilisation. > Sediment Control Measures: The sediment control measures shall trap, contain and treat the silty discharges from within a construction / earthworks site (including rain, runoff, water from wash bay, underground water at basement, etc.) by providing: perimeter cut-off drain, perimeter silt fence, intermediate silt trap, sedimentation basin or storage pond/tank, treatment system, turbidity curtains, wheel wash. 	Minor (water quality) Negligible (hydrology)	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> > Perform real-time TSS monitoring > Monitor water quality at the quarry lakes on-site on a monthly basis during the period of in-water or near-water > Conduct Weekly EMMMP Inspection
Water Body	Little Guilin Quarry Lake	Construction	<p><u>Improper management of chemical substances:</u></p> <ul style="list-style-type: none"> > Contaminated stormwater due to improper storage/disposal/transport of chemical materials handled and stored on site leading to an increase in the levels of oil, grease and other chemical substances in the nearby waterbodies; and > Fuel and lubricants spillage from maintenance of construction vehicles and mechanical equipment can also lead to elevation in levels of oil in the nearby waterbodies. 	Priority 2	Medium (water quality) Negligible (hydrology)	Proximity of construction activities to the water (in water construction activities). Suspended nature of boardwalk above the water surface; low risk of erosion to quarry lake granite banks.	Low (water quality) Negligible (hydrology)	Possible / Occasional (water quality) Less Likely / Rare (hydrology)	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p><u>Guidelines of effective ECM</u></p> <p>An effective ECM requires 2 components which shall include, but is not limited to, the following minimum measures in order to meet the legal requirements cited under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations:</p> <ul style="list-style-type: none"> > Erosion Control Measures: The erosion control measures shall minimise the extent and duration of any exposed /bare / erodible surfaces by proper work sequencing, covering up of all bare/erodible surfaces and progressive and timely revegetation and stabilisation. > Sediment Control Measures: The sediment control measures shall trap, contain and treat the silty discharges from within a construction / earthworks site (including rain, runoff, water from wash bay, underground water at basement, etc.) by providing: perimeter cut-off drain, perimeter silt fence, intermediate silt trap, sedimentation basin or storage pond/tank, treatment system, turbidity curtains, wheel wash. 	Minor (water quality) Negligible (hydrology)	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> > Perform real-time TSS monitoring > Monitor water quality at the quarry lakes on-site on a monthly basis during the period of in-water or near-water > Conduct Weekly EMMMP Inspection

Receptor Type	Type	Recorded	Receptor (Scientific Name)	Receptor (Common Name)	Global Status (IUCN/CITES)	National Status	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tybonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Unlikely	Impact is not expected to happen during construction-bamboo clusters do not overlap with impact zone	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		High	High	Unlikely	Negligible
Fauna	Bat	No	<i>Tybonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Unlikely	Impact is not expected to happen during construction-bamboo clusters do not overlap with impact zone	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		High	High	Unlikely	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible		Low	Low	Unlikely	Negligible

Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthurus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Bird	No	<i>Halkyon coronanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Helopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nepapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Ptilinopus longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is almost certain to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections > Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostris</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimita antimita</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Telocota color sringa</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sibynophis melanorhynchus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Stream is far away from the trails	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Accidental injury or mortality	High	Medium	Species that are mobile but possibly susceptible to accidental injury/mortality from construction activities	Medium	Less Likely	Not known to happen at construction sites	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Minor	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable, CITES protected (Appendix I)	Endangered	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable, CITES protected (Appendix II)	Least Concern	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered, CITES protected (Appendix I)	Critically Endangered	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern, CITES protected (Appendix I)	Critically Endangered	Construction	Accidental injury or mortality	High	High	Species with high susceptibility to accidental injury/mortality from construction activities	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothems fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around workites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EEMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Unlikely	Negligible

Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Species with low susceptibility to accidental injury/mortality from construction activities	Low	Unlikely	Impact is not expected to happen during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > Avoid fogging > No night works (except security-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within work sites	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within work sites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the work site	Medium	Medium	Less likely	Minor

Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasiglossum semirusatum</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Medium	Unlikely	Minor

Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern, CITES protected (Appendix II)	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Negligible		Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Cyamis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	No	<i>Hakcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened, CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor

Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Strix selkputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor		High	High	Unlikely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor

Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	High	High	Unlikely	Minor	
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Arhopala silhetensis adonea</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Callois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Catopyrops ancyrta</i>	Ancyrta blue	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Charaxes sokon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded reideye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works) > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	

Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastris everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telcota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed, CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable, CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable, CITES protected (Appendix II)	Vulnerable	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Unlikely	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Medium	Medium	Unlikely	Minor	
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable, CITES protected (Appendix I)	Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Less likely	Minor

Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable, CITES protected (Appendix II)	Least Concern	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered, CITES protected (Appendix I)	Critically Endangered	Construction	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern, CITES protected (Appendix I)	Critically Endangered	Construction	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Possible	Human traffic confined within worksites	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Moderate	> Restrict entry of site personnel beyond the worksite	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to limit site personnel movement to within worksites > No night works (except safety-critical works)	Minor	Low	Low	Less likely	Minor	
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor	

Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris fulvica</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina rileyi</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Lasiglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	Medium	Medium	Less likely	Minor

Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Impact could possibly happen or has been known to occur during construction > Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed butbul	Least Concern	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	Negligible		Negligible	Very Low	Unlikely	Negligible

Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Cyamis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Hakyo coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible

Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Paltacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Strix selkuto</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible

Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostris</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adonea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyrus</i>	Ancyrus blue	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pachikpta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Suasius everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Telcota colan stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed. CITES protected (Appendix II)	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by construction personnel, may deliver venomous bite if provoked	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by construction personnel, may deliver venomous bite if provoked	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	High	High	Less likely	Minor	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor	

Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable, CITES protected (Appendix II)	Vulnerable	Construction	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by construction personnel, may deliver venomous bite if provoked	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sbinyopsis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by construction personnel, may deliver venomous bite if provoked	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable, CITES protected (Appendix II)	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldi</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable, CITES protected (Appendix I)	Endangered	Construction	Human-wildlife conflict	High	Medium	Species that are typically perceived as nuisances and possibly as threats by construction personnel, highly tolerant of human presence and urban environments, and frequently implicated in human-wildlife	Medium	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable, CITES protected (Appendix II)	Least Concern	Construction	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by construction personnel, highly tolerant of human presence and urban environments, and are frequently implicated in human-wildlife conflict	High	Possible	Impact could possibly happen or has been known to occur during construction	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding on wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered, CITES protected (Appendix I)	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern, CITES protected (Appendix I)	Critically Endangered	Construction	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by construction personnel, less tolerant of human presence and urban environments	Low	Less Likely	No night works	> Erect hoardings around work sites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor

Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed perch	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Main Entrance) to prevent fauna entry > No night works (except safety-critical works) > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tytonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lasiglossum semirusatum</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lipotriches lakauensis</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible

Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Less Likely	Safety-critical night works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened: CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern: CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirratus</i>	Changeable hawk-eagle	Least Concern: CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Paltacula longicauda</i>	Long-tailed parakeet	Vulnerable: CITES protected (Appendix II)	Near Threatened	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Paltinus cyanurus</i>	Blue-rumped parrot	Near Threatened: CITES protected (Appendix II)	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered: CITES protected (Appendix I)	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern: CITES protected (Appendix II)	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern: CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimita antimita</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyrus</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebedea lebedea</i>	Banded redefye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suasatus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telcolta colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix I)	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sbonyphis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldi</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Pionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Less Likely	Safety-critical night works only	No night works	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Less Likely	Safety-critical night works only	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Less Likely	Safety-critical night works only	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction		Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction		Minor	High	High	Unlikely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction		Minor	Medium	Medium	Unlikely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction		Minor	High	High	Unlikely	Minor

Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tyonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Hakyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor

Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Haliopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Colton pygmy goose	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Paltacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Sumiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Treron curvirostris</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala sithensis adonia</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinarra</i>	Formosan swift	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Caltois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyrus</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Discophora sondaca despolata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Gangara lebedea lebedea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Jamides alecto agelidas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya eiliffi</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor

Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Impact is not expected to happen during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Suasutus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Talcota colan stringa</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Impact is not expected to happen during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact is not expected to happen during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable, CITES protected (Appendix I)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Hoarding will not be erected at trails during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	No change to waterbody	Very Low	Unlikely	Stream is far away from the trails	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	No change to waterbody	Very Low	Unlikely	Stream is far away from the trails	Negligible	Negligible	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldi</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable, CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Hoarding will not be erected at trails during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable, CITES protected (Appendix II)	Least Concern	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	Hoarding will not be erected at trails during construction	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered, CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	Hoarding will not be erected at trails during construction	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern, CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Hoarding will not be erected at trails during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	Impact could possibly happen or has been known to occur during construction	Minor	High	High	Unlikely	Minor

Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened, CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tybonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tybonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor

Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor

Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Hakycorn coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pastacola longicauda</i>	Long-tailed parakeet	Vulnerable, CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened, CITES protected (Appendix II)	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered, CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern, CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Strix selkputo</i>	Spotted wood owl	Least Concern, CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor

Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adonia</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyrza</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Gangara lebedea lebedea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageledas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understorey plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Suastris everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Telocota colan stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed: CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Stoney's palmer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable: CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable: CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable: CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable: CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable: CITES protected (Appendix II)	Least Concern	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered: CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	Moderate	> Avoid areas of high conservation value > Erect hoardings to delineate worksites involving heavy machinery (i.e., Main Entrance) > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Remove understory plants only, replant somewhere else in BBTP	Low	Low	Possible	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern: CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed perch	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat	Very Low	Unlikely	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Cheironycteris torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Negligible	Impact is not expected to happen during operation	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Negligible	Impact is not expected to happen during operation	Low	Low	Unlikely	Negligible
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Negligible	Impact is not expected to happen during operation	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Negligible	Impact is not expected to happen during operation	Low	Low	Unlikely	Negligible

Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened: CITES protected (Appendix II)	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tyloscteris fulvica</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tyloscteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina rileyi</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasiglossum semirusatum</i>	NA	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Migratory	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Accidental injury or mortality	High	High	Migratory	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Dendrocoryna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorrheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Hakycyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	High	Migratory	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened: CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern: CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Migratory	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Nettion coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern: CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Ptilinopus longicauda</i>	Long-tailed parakeet	Vulnerable: CITES protected (Appendix II)	Near Threatened	Operation	Accidental injury or mortality	High	High	Forest-edge frugivore	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened: CITES protected (Appendix II)	Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Forest-edge frugivore	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	CITES protected (Appendix I)	Endangered	Operation	Accidental injury or mortality	High	High	Forest-edge frugivore	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern: CITES protected (Appendix II)	Critically Endangered	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern: CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Unlikely	No major buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Migratory	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Forest-edge frugivore	High	Unlikely	No major buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Unlikely	No major buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanca blanca</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antmuta antmuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpbus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adonia</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Asictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Gangara lebedea lebedea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageledas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya eloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Choclate sailor	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio proxaspes proxaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Potanthus trachala tydri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Suasus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Telocola cokoi stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Stoney's palmer	Not Assessed	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sbinyopsis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Operation	Accidental injury or mortality	High	Low	Aquatic - low susceptibility	Low	Unlikely	Impact could possibly happen or has been known to occur during construction	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Cuora ambohensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Unlikely	Impact is not likely to happen during operation	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Operation	Accidental injury or mortality	High	Medium	Arboreal mammal - mobile but possibly susceptible to roadkills	Medium	Unlikely	Arboreal	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Operation	Accidental injury or mortality	High	Medium	Arboreal mammal - mobile but possibly susceptible to roadkills	Medium	Unlikely	Arboreal	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	Operation	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operation	Accidental injury or mortality	High	High	Known to cross roads - highly susceptible to roadkills	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operation	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operation	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Impact is not likely to happen during operation	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamselfly	Not Assessed	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible

Fauna	Bat	No	<i>Cheironomus torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened: CITES protected (Appendix II)	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris fulvica</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Negligible	Species not sensitive to human presence	Very Low	Unlikely	Not adversely affected by human presence	Negligible		Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor

Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chbropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chbropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species	Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern, CITES protected (Appendix II)	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species	Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeetus</i>	Grey-headed fish eagle	Near Threatened, CITES protected (Appendix II)	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor

Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Ptilinopus longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Strix selkputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor

Fauna	Bird	Yes	<i>Surniculus ligubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Human disturbances	High	High	Species that are extremely sensitive to human presence	High	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Human disturbances	High	Medium	Species that are sensitive to human presence	Medium	Less Likely	Human traffic confined within built-up areas and trails/boardwalks	Minor	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Asictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Calotis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopryps ancyrta</i>	Ancyra blue	Not Assessed	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadua lebadua</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageledas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidine blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopitca agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telcota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor

Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Human disturbances	High	Low	Species that are slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened: CITES protected (Appendix II)	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Lasiglossum semirusatum</i>	NA	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Less Likely	Aculeata - possibly implicated in human-wildlife conflict	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanoccephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Collocalis affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible

Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Hakyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Paltacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Patinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not likely to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Human-Wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpbus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adonia</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyrus</i>	Ancyra blue	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Gangara lebedea lebedea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto agelidas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Manito hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Telicota colan stringa</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed, CITES protected (Appendix II)	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by construction personnel	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Low	Low	Unlikely	Negligible	
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by public, may deliver venomous bite if provoked	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by public, may deliver venomous bite if provoked	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by public, less tolerant of human presence and urban environments	Low	Less Likely	Species less tolerant of human	Minor		Low	Low	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable, CITES protected (Appendix II)	Vulnerable	Operation	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by public, may deliver venomous bite if provoked	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fuscus</i>	White-bellied rat snake	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by public, less tolerant of human presence and urban environments	Low	Less Likely	Species less tolerant of human	Minor		Low	Low	Less likely	Minor
Fauna	Non-marine snake	No	<i>Sbinyopsis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by public, may deliver venomous bite if provoked	High	Less Likely	Reptile - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable, CITES protected (Appendix II)	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible	
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Less Likely	Impact is not likely to happen during operation	Negligible	Negligible	Very Low	Less likely	Negligible	
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldi</i>	Horsfield's flying squirrel	Least Concern	Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable, CITES protected (Appendix I)	Endangered	Operation	Human-wildlife conflict	High	Medium	Species that are typically perceived as nuisances and possibly as threats by construction personnel, highly tolerant of human presence and urban environments, and frequently implicated in human-wildlife	Medium	Less Likely	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable, CITES protected (Appendix II)	Least Concern	Operation	Human-wildlife conflict	High	High	Species that are typically perceived as both nuisances and threats by members of the public, highly tolerant of human presence and urban environments, and are frequently implicated in human-wildlife conflict	High	Less Likely	Mammal - possibly implicated in human-wildlife conflict	Minor	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor

Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operation	Human-wildlife conflict	High	Low	Species that are possibly perceived as both nuisances and threats by members of the public, less tolerant of human presence and urban environments	Low	Less Likely	Impact is not likely to happen during operation	Minor	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeitheris fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Human-wildlife conflict	High	Negligible	Species that are not perceived as nuisances or threats by members of the public	Very Low	Unlikely	Impact is not expected to happen during operation	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Tyonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Minor	High	High	Unlikely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasiglossum semirusatum</i>	NA	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline).	Negligible	Negligible	Very Low	Unlikely	Negligible

Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Negligible	Species that are not sensitive to changes in light levels	Very Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthurus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Hakcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Halopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pastaculus longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor

Fauna	Bird	No	<i>Sporornis cheela</i>	Crested serpent eagle	Least Concern: CITES protected (Appendix II)	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern: CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumorphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adroea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Calotis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyræ</i>	Ancyra blue	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloli</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pachlopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Talcota colan stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix I)	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-marine turtle	No	<i>Cuora ambohenensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels: nocturnal, crepuscular fauna	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operation	Light disturbances	High	High	Species that are extremely sensitive to changes in light levels	High	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operation	Light disturbances	High	Medium	Species that are sensitive to changes in light levels	Medium	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Minor	Medium	Medium	Unlikely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible

Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Light disturbances	High	Low	Species that are slightly sensitive to changes in light levels	Low	Unlikely	Lighting will only be provided at Main Entrance, which is currently lit (i.e., worse off from baseline.	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bat	No	<i>Cheiromeles torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bat	No	<i>Tyonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bat	No	<i>Tyonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Lpochriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanoccephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern; CITES protected (Appendix II)	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor

Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Hakcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Helopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	Yes	<i>Psalittacus longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Sumiculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Bird	No	<i>Treron curvirostris</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Arhopala sâhetensis adonea</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Calloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyrâ</i>	Ancyra blue	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor

Fauna	Butterfly	No	<i>Jamides alecto ageleidas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sidine blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya eiofi</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Pachikpta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio proxaspes proxaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Butterfly	No	<i>Telicota colon stringa</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine snake	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable; CITES protected (Appendix II)	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	No change to waterbody	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	No change to waterbody	Very Low	Unlikely	No major new buildings	Negligible	Negligible	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Unlikely	No major new buildings	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Unlikely	No major new buildings	Minor	Medium	Medium	Unlikely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamsel	Not Assessed	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Unlikely	No major new buildings	Negligible	Low	Low	Unlikely	Negligible

Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor	
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Unlikely	No major new buildings	Minor	High	High	Unlikely	Minor	
Fauna	Bat	No	<i>Cheironycteris torquatus</i>	Naked bulldog bat	Least Concern	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Emballonura monticola</i>	Lesser sheath-tailed bat	Least Concern	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	Yes	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Hipposideros bicolor</i>	Bicoloured roundleaf bat	Least Concern	Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Penthetor lucasi</i>	Dusky fruit bat	Least Concern	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened: CITES protected (Appendix II)	Critically Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tybonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bat	No	<i>Tybonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Anthidium smithi</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Lasiglossus semirussum</i>	NA	Not Assessed	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bee	No	<i>Patellaja intricata</i>	NA	Not Assessed	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ardea purpurea</i>	Purple heron	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Brachypodius melanocephalus</i>	Black-headed bulbul	Least Concern	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Chloropsis cyanopogon</i>	Lesser green leafbird	Near Threatened	Critically Endangered	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chloropsis sonnerati</i>	Greater green leafbird	Endangered	Critically Endangered	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Very Low	Unlikely	Negligible	
Fauna	Bird	No	<i>Copsychus malabaricus</i>	White-rumped shama	Least Concern: CITES protected (Appendix II)	Endangered	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dendrocygna javanica</i>	Lesser whistling duck	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Dicaeum chrysorheum</i>	Yellow-vented flowerpecker	Least Concern	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Hakyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Haliaeetus ichthyaeus</i>	Grey-headed fish eagle	Near Threatened: CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor

Fauna	Bird	No	<i>Haliopais personatus</i>	Masked finfoot	Endangered	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Nettapus coromandelianus</i>	Cotton pygmy goose	Least Concern	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Nycticorax nycticorax</i>	Black-crowned night heron	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Ptilinopus longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Psittinus cyanurus</i>	Blue-rumped parrot	Near Threatened; CITES protected (Appendix II)	Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Pycnonotus brunneus</i>	Asian red-eyed bulbul	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Pycnonotus simplex</i>	Cream-vented bulbul	Least Concern	Vulnerable	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Strix selkputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Surniculus lugubris</i>	Square-tailed drongo-cuckoo	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Tachybaptus ruficollis</i>	Little grebe	Least Concern	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	No	<i>Treron curvirostra</i>	Thick-billed green pigeon	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operation	Poaching	High	Medium	Species that are possibly susceptible to poaching; commonly traded as pets	Medium	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	Medium	Medium	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Syhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Caltonis malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyrus</i>	Ancyrus blue	Not Assessed	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Charaxes sokon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despolata</i>	Common duffer	Not Assessed	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible

Fauna	Butterfly	No	<i>Gangara lebadsea lebadsea</i>	Banded reideye	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageledas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya eiloti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pachlopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	Yes	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Suastris everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Telicota colon sringa</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed, CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Boiga melanota</i>	Gold-ringed cat snake	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Ophiophagus hannah</i>	King cobra	Vulnerable, CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-marine snake	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine snake	No	<i>Sbinyphis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible
Fauna	Non-marine turtle	No	<i>Amyda cartilaginea</i>	Asian softshell turtle	Vulnerable, CITES protected (Appendix II)	Vulnerable	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Species spends most time in stream, which is far away from trails	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-marine turtle	No	<i>Cuora amboinensis</i>	Maiayan box terrapin	Vulnerable, CITES protected (Appendix II)	Near Threatened	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Galeopterus variegatus</i>	Sunda colugo	Least Concern	Near Threatened	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Non-volant mammal	Yes	<i>Iomys horsfieldii</i>	Horsfield's flying squirrel	Least Concern	Endangered	Operation	Poaching	High	Low	Species with low susceptibility to poaching; not commonly known to be traded as pets	Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Unlikely	Negligible

Fauna	Non-volant mammal	Yes	<i>Lutrogale perspicillata</i>	Smooth otter	Vulnerable; CITES protected (Appendix I)	Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operation	Poaching	High	High	Species that are highly susceptible to poaching; listed on CITES Appendix I or II	High	Less Likely	Currently already accessible to public; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Minor	High	High	Less likely	Minor
Fauna	Odonate	No	<i>Acrogomphus malayanus</i>	Malayan hooktail	Near Threatened	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Amphicnemis gracilis</i>	Will-o-wisp	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Chalybeothemis fluvialis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Drepanosticta quadrata</i>	Singapore shadowdamselfly	Not Assessed	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Indothemis carnatica</i>	White-tipped demon	Near Threatened	Critically Endangered	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Podolestes orientalis</i>	Blue-spotted flatwing	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible
Fauna	Odonate	No	<i>Prodasineura collaris</i>	Collared threadtail	Least Concern	Vulnerable	Operation	Poaching	High	Negligible	Species with negligible susceptibility to poaching	Very Low	Unlikely	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Unlikely	Negligible

Receptor Type	Type	Habitat	Phase	Impact type	Impact category	Sensitivity (S)	Key minimum controls	Impact intensity (I)	Reason	Consequence (C = S × I)	Likelihood (L)	Reason	Impact significance (C × L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Loss of habitat	Direct	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest	Construction	Loss of habitat	Direct	Priority 2		Negligible	0.64% (0.11 ha)	Negligible	Unlikely	Overlaps with worksite	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Construction	Loss of habitat	Direct	Priority 3		Negligible	0.14% (0.006 ha)	Negligible	Unlikely	Overlaps with worksite	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Construction	Loss of habitat	Direct	Priority 3	Hoarding installation, TPZ installation, daily checks by EM	Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Loss of habitat	Direct	Priority 3		Low	7.25% (0.18 ha)	Very Low	Certain	Overlaps with worksite	Minor	Not applicable	Low	Very Low	Certain	Minor
Habitat	Aquatic	Stream D1a	Construction	Loss of habitat	Direct	Priority 2		Neatizable	No overlap	Negligible	Unlikely	No development	Neatizable	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD1	Construction	Loss of habitat	Direct	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD2	Construction	Loss of habitat	Direct	Priority 2		Negligible	No loss (boardwalk)	Negligible	Unlikely	No development (boardwalk)	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest	Construction	Habitat degradation	Indirect	Priority 2		Low	4.66% (0.79 ha)	Very Low	Less likely	Minimum controls	Neatizable	Not applicable	Low	Very Low	Less likely	Neatizable
Habitat	Terrestrial	Scrubland	Construction	Habitat degradation	Indirect	Priority 3		Low	1.02% (0.04 ha)	Very Low	Less likely	Minimum controls	Negligible	Not applicable	Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Farm	Construction	Habitat degradation	Indirect	Priority 3		Low	3.00% (0.003 ha)	Very Low	Less likely	Minimum controls	Negligible	Not applicable	Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Habitat degradation	Indirect	Priority 3		High	40.46% (0.97 ha)	Low	Less likely	Minimum controls	Minor	Not applicable	High	Low	Less likely	Minor
Habitat	Aquatic	Stream D1a	Construction	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD1	Construction	Habitat degradation	Indirect	Priority 2		Neatizable	No overlap	Neatizable	Unlikely	No development	Neatizable	Not applicable	Negligible	Negligible	Unlikely	Neatizable
Habitat	Aquatic	Quarry Lake QD2	Construction	Habitat degradation	Indirect	Priority 2		Medium	Considerable changes in surface water quality	Low	Less likely	Minimum controls	Minor	Not applicable	Medium	Low	Less likely	Minor
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Formation of edge effects	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest	Construction	Formation of edge effects	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Construction	Formation of edge effects	Indirect	Priority 3		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Construction	Formation of edge effects	Indirect	Priority 3		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Construction	Formation of edge effects	Indirect	Priority 3	NA	High	44.37% increase in P/A	Low	Less likely	Considerable development (arrival node) but habitat is already edge habitat	Minor	Not applicable	High	Low	Less likely	Minor
Habitat	Aquatic	Stream D1a	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	Unlikely	NA	Negligible	Not applicable	NA	NA	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD1	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	Unlikely	NA	Negligible	Not applicable	NA	NA	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD2	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	Unlikely	NA	Negligible	Not applicable	NA	NA	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest	Operational	Habitat degradation	Indirect	Priority 2		Low	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Operational	Habitat degradation	Indirect	Priority 3		Low	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Farm	Operational	Habitat degradation	Indirect	Priority 3		Low	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Operational	Habitat degradation	Indirect	Priority 3		High	40.46% (0.97 ha)	Low	Possible	Accessible terrain and habitat degradation already present	Minor	Not applicable	High	Low	Less likely	Minor
Habitat	Aquatic	Stream D1a	Operational	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD1	Operational	Habitat degradation	Indirect	Priority 2		Negligible	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD2	Operational	Habitat degradation	Indirect	Priority 2		Low	Some changes in surface water quality	Very Low	Possible	Boardwalk with railing, surface runoff controlled but some littering expected	Minor	Not applicable	Low	Very Low	Less likely	Negligible
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Neatizable	No overlap	Neatizable	Unlikely	No development	Neatizable	Not applicable	Neatizable	Neatizable	Unlikely	Neatizable
Habitat	Terrestrial	Abandoned-land forest	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	4.66% (0.79 ha)	Very Low	Unlikely	Development is largely green	Negligible	Not applicable	Very Low	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Scrubland	Operational	Changes in microclimatic conditions	Indirect	Priority 3		Low	1.02% (0.04 ha)	Very Low	Unlikely	Development is largely green	Negligible	Not applicable	Low	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Farm	Operational	Changes in microclimatic conditions	Indirect	Priority 3		Low	3.00% (0.003 ha)	Very Low	Unlikely	Development is largely green	Negligible	Not applicable	Low	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Urban vegetation	Operational	Changes in microclimatic conditions	Indirect	Priority 3		High	40.46% (0.97 ha)	Low	Unlikely	Development is largely green	Negligible	Not applicable	High	Low	Unlikely	Negligible
Habitat	Aquatic	Stream D1a	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Neatizable	No overlap	Neatizable	Unlikely	No development	Neatizable	Not applicable	Neatizable	Neatizable	Unlikely	Neatizable
Habitat	Aquatic	Quarry Lake QD1	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	No overlap	Negligible	Unlikely	No development	Negligible	Not applicable	Negligible	Negligible	Unlikely	Negligible
Habitat	Aquatic	Quarry Lake QD2	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Low	2.45% (0.08 ha)	Very Low	Unlikely	Development is largely green	Negligible	Not applicable	Low	Very Low	Unlikely	Negligible
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA	Not applicable	NA	NA	NA	NA
Habitat	Terrestrial	Abandoned-land forest	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA	Not applicable	NA	NA	NA	NA
Habitat	Terrestrial	Scrubland	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA	Not applicable	NA	NA	NA	NA
Habitat	Terrestrial	Farm	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA	Not applicable	NA	NA	NA	NA
Habitat	Terrestrial	Urban vegetation	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA	Not applicable	NA	NA	NA	NA
Habitat	Aquatic	Stream D1a	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		High	Detrimental to native-dominated habitat	Medium	Less likely	Aquatic habitat not easily accessible	Minor	Not applicable	High	Medium	Less likely	Minor
Habitat	Aquatic	Quarry Lake QD1	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Low	Some impact to exotic-dominated habitat	Very Low	Less likely	No development	Negligible	Not applicable	Low	Very Low	Less likely	Negligible
Habitat	Aquatic	Quarry Lake QD2	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Low	Some impact to exotic-dominated habitat	Very Low	Less likely	Aquatic habitat currently already easily accessible	Negligible	Not applicable	Low	Very Low	Less likely	Negligible

Receptor Type	Type	Receptor	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Flora	Indirect	<i>Abrodictyum obscurum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Actinostachys digitata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Agelaea macrophylla</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Aglaia tomentosa ssp. cordata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Aidia densiflora</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ampelocissus ascendiflora</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ampelocissus gracilis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Arundina graminifolia</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Aspidopterys concava</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Bambusa heterostachya</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Bambusa vulgaris</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Boeua oppositifolia</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Brachypterum scandens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Breynia discigera</i>	Construction	Decline in plant health	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Calamus cf. melanochaetes</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Calophyllum tetrapterum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Canarium pilosum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Capparis micracantha</i> subsp. <i>korthalsiana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Cephalomanes javanicum</i> var. <i>javanicum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Chassalia curviflora</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Connarus semidecandrus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Cratoxylum formosum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Curculigo capitulata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible		No change	No change	No change	Negligible

Flora	Indirect	<i>Melicope lunu-ankenda</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Morinda elliptica</i>	Construction	Decline in plant health	High	High	Only 1 specimen (only specimen recorded) affected indirectly by development of main entrance	High	Less likely	Formation of forest edges in forested area; plant specimens previously in forested areas now exposed to new edge habitats	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP	No change	No change	No change	Minor
Flora	Indirect	<i>Nepenthes rafflesiana</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Nervilia singaporensis</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Oncosperma tigillarum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Oxyceros bispinosus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Oxyceros longiflorus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Pandanus houletii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Pellacalyx saccardianus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Phaeanthus intermedius</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Phytocrene bracteata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Piper cf. ribesoides</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Piper ramipilum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Psychotria maingayi</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Psychotria ovoidea</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Psychotria polycarpa</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Ptemandra coerulescens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Radermachera quadripinnata ssp. lobbii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Rourea mimosoides</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Rourea minor</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Rubus moluccanus var. moluccanus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	
Flora	Indirect	<i>Sandoricum koetjape</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Not Expected to Occur	No specimen will lie within impact zones of proposed constructions	Implement soil erosion control measures	Negligible	No change	No change	No change	Negligible	

Flora	Direct	<i>Glochidion zeylanicum var. zeylanicum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Guioa pleuropteris</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Gynochthodes rigida</i>	Construction	Mortality	High	Low	No specimen affected directly by development	Low	Certain	No specimen will be affected by impact of mortality	NIL	Negligible	Negligible	No change	No change	Negligible
Flora	Direct	<i>Heritiera elata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Horsfieldia polyspherula var. polyspherula</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Litsea cf. castanea</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Litsea grandis</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Litsea umbellata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Lomariopsis lineata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Macaranga griffithiana</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Macaranga hullettii</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Mapania cuspidata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Melicope lunu-ankenda</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Morinda elliptica</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Nepenthes rafflesiana</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Nervilia singaporensis</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Low	Certain	No specimen will be affected by impact of mortality	NIL	Negligible	Negligible	No change	No change	Negligible
Flora	Direct	<i>Oncosperma tigillarum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Low	Certain	No specimen will be affected by impact of mortality	NIL	Negligible	Negligible	No change	No change	Negligible
Flora	Direct	<i>Oxyceros bispinosus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Oxyceros longiflorus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Pandanus houlletii</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Pellacalyx saccardianus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Phaeanthus intermedius</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Phytocrene bracteata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Piper cf. ribesoides</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Piper ramipilum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Psychotria maingayi</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Psychotria ovoidea</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Psychotria polycarpa</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Pternandra coeruleascens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Radermachera quadripinnata ssp. lobbii</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Rourea mimosoides</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Rourea minor</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Rubus moluccanus var. moluccanus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Sandoricum koetjape</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Strophanthus caudatus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Tectaria semipinnata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Teratophyllum ludens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Tetracera fagifolia var. borneensis</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Uncaria cf. elliptica</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Uncaria cordata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Ziziphus elegans</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not Expected to Occur	No specimen will be affected by impact of mortality	NIL	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Bambusa heterostachya</i>	Operational	Poaching	High	Medium	Some plant specimens of this species could get stolen (i.e., have charismatic and/or ethnobotanical value)	Medium	Not Expected to Occur	Specimen is too large to be poached	NIL	Minor	<ul style="list-style-type: none"> •Design the boardwalks and trails to deter visitors from trampling/ venturing off-trail (e.g., install railings) •Put up signages to remind visitors not to stray off-trail •Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail 	No change	No change	No change	Minor
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Flora	Indirect	<i>Bambusa vulgaris</i>	Operational	Poaching	High	Medium	Some plant specimens of this species could get stolen (i.e., have charismatic and/or ethnobotanical value)	Medium	Not Expected to Occur	Specimen is too large to be poached	NIL	Minor	<ul style="list-style-type: none"> •Design the boardwalks and trails to deter visitors from trampling/ venturing off-trail (e.g., install railings) •Put up signages to remind visitors not to stray off-trail •Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail 	No change	No change	No change	Minor
Flora	Indirect	<i>Guioa pleuropteris</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Nepenthes rafflesiana</i>	Operational	Poaching	High	High	Most plant specimens of this species could get stolen (i.e., orchids, pitcher plants), and are of small to medium sizes, which can be removed	High	Not Expected to Occur	Only specimen recorded on site, and are not accessible to members of public	NIL	Minor	<ul style="list-style-type: none"> •Design the boardwalks and trails to deter visitors from trampling/ venturing off-trail (e.g., install railings) •Put up signages to remind visitors not to stray off-trail •Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail 	No change	No change	No change	Minor
Flora	Indirect	<i>Arundina graminifolia</i>	Operational	Poaching	High	High	Most plant specimens of this species could get stolen (i.e., orchids, pitcher plants), and are of small to medium sizes, which can be removed	High	Not Expected to Occur	Only specimen recorded on site, and are not accessible to members of public	NIL	Minor	<ul style="list-style-type: none"> •Design the boardwalks and trails to deter visitors from trampling/ venturing off-trail (e.g., install railings) •Put up signages to remind visitors not to stray off-trail •Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail 	No change	No change	No change	Minor
Flora	Indirect	<i>Abrodictyum obscurum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Actinostachys digitata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Agelaea macrophylla</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Aidia densiflora</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Aspidopterys concava</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Breynia discigera</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Cephalomanes javanicum var. javanicum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Connarus semidecandrus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Curculigo capitulata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Cyrtococcum patens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus sagittata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus vasculosa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Garcinia cf. forbesii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible		No change	No change	No change	Negligible

Flora	Indirect	<i>Garcinia griffithii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Glochidion zeylanicum</i> var. <i>zeylanicum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Direct	<i>Gynochthodes rigida</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Horsfieldia polyspherula</i> var. <i>polyspherula</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea cf. castanea</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea grandis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea umbellata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Lomariopsis lineata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga griffithiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga hulletii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Mapania cuspidata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Melicope lunu-ankenda</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oncosperma tigillarum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oxyceros bispinosus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oxyceros longiflorus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Pandanus houlletii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Pellacalyx saccardianus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Phytocrene bracteata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Piper cf. ribesoides</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Psychotria polycarpa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ptemandra coeruleascens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Radermachera quadripinnata ssp. lobbii</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Rubus moluccanus var. moluccanus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Strophanthus caudatus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Teratophyllum ludens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Tetracera fagifolia var. borneensis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Uncaria cf. elliptica</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Uncaria cordata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Aglaiia tomentosa ssp. cordata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ampelocissus ascendiflora</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ampelocissus gracilis</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Brachypterum scandens</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Calamus cf. melanochaetes</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Calophyllum tetrapterum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Canarium pilosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Capparis micracantha subsp. korthalsiana</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Chassalia curviflora</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Cratoxylum formosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible

Flora	Indirect	<i>Diplazium tomentosum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Elaeocarpus ferrugineus ssp. ferrugineus</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus villosa</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Gardenia cf. subcarinata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Heritiera elata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Nervilia singaporensis</i>	Operational	Poaching	High	High	Most plant specimens of this species could get stolen (i.e., orchids, pitcher plants), and are of small to medium sizes, which can be removed	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Phaeanthus intermedius</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Piper ramipilum</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Psychotria maingayi</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Psychotria ovoidea</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Rourea mimosoides</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Rourea minor</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Tectaria semipinnata</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ziziphus elegans</i>	Operational	Poaching	High	Low	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Low	Not Expected to Occur	Specimen is inaccessible	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Bouea oppositifolia</i>	Operational	Poaching	High	Negligible	No specimen can be stolen as the only record on site is a large specimen	Very Low	Not Expected to Occur	Specimen is too large to be poached	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus caulocarpa</i>	Operational	Poaching	High	Negligible	No specimen can be stolen as the only record on site is a large specimen	Very Low	Not Expected to Occur	Specimen is too large to be poached	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus variegata</i>	Operational	Poaching	High	Negligible	No specimen can be stolen as the only record on site is a large specimen	Very Low	Not Expected to Occur	Specimen is too large to be poached	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Morinda elliptica</i>	Operational	Poaching	High	Negligible	No specimen can be stolen as the only record on site is a large specimen	Very Low	Not Expected to Occur	Specimen is too large to be poached	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Sandoricum koetjape</i>	Operational	Poaching	High	Negligible	Few plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Not Expected to Occur	Specimen is too large to be poached	NIL	Negligible	No change	No change	No change	Negligible

Appendix 1C
Environmental Impact and Mitigation Register - BBHNP

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Residents staying adjacent / near to the proposed project	Construction	Potential human annoyance to receptors residing in the vicinity of the construction footprint.	Priority 2	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Negligible	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Restricted Working Hours (RWH): The Contractor shall ensure that general construction activities are confined to daytime (0800-1800 hours) only, Monday to Saturday for all parks, while noisy activities are only limited to 1000 – 1700 hours for BBNP. > The noise levels should not exceed the maximum permissible noise levels for construction set out in the Schedule to the Environmental Protection and Management (Control of Noise at Construction Sites) Regulations, and the project-specific maximum permissible noise levels of 75 dB (Leq 1 hour) and 90 dB (Leq 5 min) at the boundary. > The Contractor shall ensure that hoarding is installed around the work zones to reduce noise propagation to surrounding area. > The Contractor shall ensure that workers are trained in noise-reduction behaviours such as reducing the drop height of materials, and turning off equipment and vehicle engines when not in use.	Negligible	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Human	Students from the nearby schools	Construction	Potential human annoyance to receptors residing in the vicinity of the construction footprint.	Priority 1	Negligible	Predicted noise levels are less than 3 dB(A) above the regulatory limits	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during demolition activities. > The Contractor shall select quieter construction equipment and construction methods in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex G where necessary to achieve the permissible noise limits.	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Fauna	Species that use sounds for communication, foraging, and breeding, or are known to have their behaviours disrupted by sound, and are of conservation significance > Birds, non-volant mammals and bats of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 1	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	High	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> The Contractor shall deploy quiet models of construction equipment i.e. generators, compressors, excavators. Where there are no quieter models, the Contractor shall demonstrate so under the submission of Quiet Machine/ Equipment List. Quieter models are defined as those having sound pressure levels at least 5 dB quieter than other models readily available locally, when measured 1 m from the equipment body while the equipment is operating at its rated load. > Provide acoustic shed / enclosure for construction equipment, where viable. > Site noisy machinery or equipment Plant away from the nearby noise sensitive receptors, where possible.	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	High	Less Likely / Rare	Minor	> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work > Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels > Conduct Weekly EMMP Inspection
Fauna	Species that are less affected by airborne noise but are of conservation significance > Aculeate hymenopterans, odonates, butterflies, decapods and reptiles of conservation significance	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 2	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> All machines and equipment shall be labelled with weatherproof stickers showing clearly its noise specification i.e. noise levels at 1m from source. The Contractor shall verify the performance using a Class 1 (Type 1) sound meter on all machines monthly at 1 m distance from source. > The Contractor shall ensure that vehicles and equipment are not left idling when not in use. > The Contractor shall ensure that all equipment and machinery is maintained and operated in a manner such that it does not give rise to excessive noise emissions. A list of equipment shall be submitted demonstrating consideration of alternatives. >The Contractor shall use quieter (non-percussive) piling methods, for example bored, jack-in or micropiling methods.	Moderate	Noise pollution mitigation measures shall be implemented in line with the Singapore Standards Code of Practice for Noise Control at Construction Sites, 2014 (SS602:2014), where practicable,	High	Medium	Less Likely / Rare	Minor	> Conduct pre-construction noise baseline monitoring for seven (7) days, one (1) month before commencement of construction work > Conduct continuous monitoring throughout the construction phase by installing real time continuous 24-hour "live" monitoring devices to monitor the noise levels > Conduct Weekly EMMP Inspection
Fauna	Species that are not of conservation significance > all other species	Construction	Potential fauna disturbance, affecting ecological foraging behaviour, intra- and inter-species communication.	Priority 3	High	Predicted maximum noise levels are more than 10 dB(A) above the baseline background noise	Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	> The Contractor shall install noise barriers around the work areas before any work commences assessment show that the stipulated noise criteria will be breached by the works. Noise barriers shall be in accordance with Singapore Standard SS 602:2014 Code of Practice for Noise Control on Construction and Demolition Site, Annex F Noise Control Techniques, Section F3.3 and the any specific noise mitigation measures to be stipulated by the Board. The noise barriers shall be designed to achieve a minimum reduction of 5 dB(A). > Daily toolbox briefings should include reminders on the need to implement noise-reduction behaviours, in particular during piling activities.	Minor	N/A	High	Low	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	> Residents staying adjacent / near to the proposed project > Students from the nearby schools	Construction	Potentially result in adverse impacts on air quality, and public and ecosystem health Potentially generate significant nuisance at receptors (human receptors) in the vicinity of the construction footprint/ proposed development.	Priority 1	Negligible - Medium	Earthwork footprint >2,500 m ² - 10,000 m ² , soil type with large grain size and total materials to be moved <5,000 tonnes	Very Low - Medium	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Ensure that hoarding is installed around the Project site or work areas to control the dispersion of dust. > Perform earthworks in phases to reduce the extent of exposed footprint at one time. > Ensure effective water suppression is used during demolition operations. > Minimize drop height. > Avoid crushing or screening of demolished construction material on-site. > Prepare an Earth Control Measures Plan. > Ensure that vehicles and equipment are not left idling when not in use. > Maintain and operate all equipment and machinery in a manner such that it does not give rise to smoke emissions, and ensure emissions comply with the Environmental Protection and Management (Vehicular Emissions) Regulations or Environmental Protection and Management (Off-Road Diesel Engine Emissions) Regulations 2012, if applicable. > A list of equipment shall be submitted demonstrating consideration of alternatives. > Ensure that truck loads carrying dry materials (such as cement, sand, aggregate, soil etc.) into the construction area will be covered. > Periodically wet the unpaved temporary access roads to prevent dust propagation. > Ensure that workers clean up any spoil/earth spillage onto the haulage routes immediately and undertake proper housekeeping of the construction site, as well as roadways linked to the entrances of the work sites, to ensure that roadways, vehicle wheels and equipment tracks are clear of dust or mud, and that appropriate barriers, tarpaulin covers/erosion blankets (fully biodegradable, wildlife-friendly) have been repaired and/or reinstated. 	Negligible - Moderate	A site-specific Air Pollution Control Plan ("APCP") should be developed to put in place measures such as establishing communications, implementation of site management measures, monitoring, etc.	Negligible - Medium	Very Low - Medium	Less Likely / Rare	Negligible - Minor	<ul style="list-style-type: none"> > Conduct pre-construction ambient air baseline monitoring for seven (7) days, one (1) month before commencement of construction work by installing real time continuous 24-hour "live" monitoring devices to monitor the PM10 and PM2.5 levels > In the event of a valid complaint, once a month for as long as the particular complaint related construction activity continues. > Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	N/A	Priority 2	Negligible - Medium	Earthwork footprint >2,500 m ² - 10,000 m ² , soil type with large grain size and total materials to be moved <5,000 tonnes	Negligible - Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Impose a maximum-speed-limit of 25 kilometres per hour (km/hr) on paved or surfaced haul roads and 15 km/hr on unpaved haul roads and work areas. > Ensure all stockpiles of demolished items, debris or good earth / aggregates are covered under canvas sheets or erosion control blankets (fully biodegradable, wildlife-friendly). > Minimise the volume of spoil stockpiled and potential for dust generation and erosion/runoff, schedule removal of spoil from the contract area at least once every five (5) days. 	Negligible - Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual Impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Human	Visitors / members of public	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 3	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Practice due diligence in proper storage and handling of machinery to prevent release of chemicals, fuels or other potentially harmful materials. > Transfer of fuel shall be done over contaminant trays and mats to prevent spillage into the ground. > Ensure oil-containing equipment or machineries are inspected for leaks before being put into use. > Provide emergency spill kits on site in the event of any fuel spillages. The emergency response team shall also be competent in the use of these spill kits. > Chemical and fuel in drums, carboys, containers, etc shall be stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > A full containment should be provided for bulk storage oil tanks, including skid tanks. > Ensure all hazardous substance and chemical containers are labelled as per the GHS requirement > Ensure a chemical inventory is maintained to track the movement of all hazardous substance and chemicals. > Return the chemicals back to its designated storage areas when not in use. > Transfer of chemicals shall be done over contaminant trays and mats to prevent spillage into the ground. > All leaks and spillages in the storage area or construction site shall be collected and sent to a licensed toxic waste collector for proper disposal. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection
Nature Areas	Nature areas of nationally designated site	Construction	Potential for direct soil and/or groundwater, and sediment contamination within the Study Area. Potential pollution to the adjacent areas within the immediate vicinity of the project due to migration of soil and/or groundwater contamination, off-site.	Priority 2	Low	Only small scale localised soil and/or sediment contamination is expected, which is not likely to extend beyond the Study Area and possible to remediate	Very Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<ul style="list-style-type: none"> > Provide emergency spill kits on site in the event of any chemical spillages. The emergency response team shall also be competent in the use of these spill kits. > Ensure toxic industrial wastes (TIWs) are stored in a designated storage area within a building or covered shed with concrete floors and containment facilities to contain any leak or spillage. > Maintains a TIW register, which is to be updated on a weekly basis. > TIW shall be collected regularly by a licensed TIW collector for off-site disposal. > Ensure leaks and spillages in the TIW storage area or construction site are collected and sent to a licensed toxic waste collector for proper disposal. 	Minor	N/A	N/A	N/A	N/A	N/A	> Conduct Weekly EMMP Inspection

Receptor Type	Type	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S x I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C x L)	Key mitigation measures	Residual impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance	Description of monitoring and inspection requirements
Water Body	A near-pristine nature of this water body stream at the southern section	Construction	<p><u>Hydrology:</u> > Increased stormwater peak flow contributions to the channel can lead to increased water level and subsequent flooding of surrounding areas adjacent to the stream/drain due to the land use change from land clearing; and > Stormwater run-off from exposed and unstable slopes may cause soil erosion.</p> <p><u>Water contamination:</u> > Elevated levels of suspended solids leading to increased turbidity and sedimentation rates, solid waste, toxic material, etc; and > Increase in the levels of oil, grease, and other chemical substances.</p> <p><u>Liquid effluent generation:</u> > Inappropriate discharge of wastewater to the watercourse will result in contamination in nearby water sources; and > Inappropriate discharge of domestic sewage and poor maintenance of the portable toilet (e.g. overflow or overload) can result in run-off to nearby water sources and potentially contaminate the waterbodies located adjacent to the construction sites.</p> <p><u>Solid wastes:</u> > Solid waste generated can lead to elevated levels of suspended solids entering waterbodies via run-off or improper handling/disposal. > Improper storage, handling, disposal or leakage of toxic waste generated at temporary work areas can lead to water contamination.</p> <p><u>Improper management of chemical substances:</u> > Contaminated stormwater due to improper storage/disposal/transport of chemical materials handled and stored on site leading to an increase in the levels of oil, grease and other chemical substances in the nearby waterbodies; and > Fuel and lubricants spillage from maintenance of construction vehicles and mechanical equipment can also lead to elevation in levels of oil in the nearby waterbodies.</p>	Priority 1	Low	Construction work is likely to be restricted to the banks only; no activities are expected in the flooded areas of the stream. The increased surface runoff expected during the construction stage is minimal given the small footprint and short-term nature of the construction works relative to the much larger catchment area of the stream. However, there remains a risk of erosion given the steep topography at this area.	Low	Possible / Occasional	Not expected to regularly happen at construction sites, upon implementation of minimum controls	<p>All work must comply to the PUB, Singapore's National Water Agency's Code of Practice on Surface Water Drainage, particularly Section 6 – Requirements for Construction Activities. The key relevant requirements are highlighted below:</p> <p><u>General</u> > The execution of any work shall not change, disrupt, fill, block, divert or disturb the existing overland flow or the existing system of drains unless an alternative drainage system has been approved by PUB. > The runoff within, upstream of and adjacent to the worksite shall be effectively drained away without causing drainage problems within the worksite or in areas outside the worksite. > Bunds of stockpiled materials such as earth from trench work shall not be longer than 10 m and gaps of at least 1 m width shall be provided between the bunds to allow the free flow of surface runoff. > Material from any stockpile shall not be allowed to fall or be washed into the drain.</p> <p><u>Earth Control Measures</u> > Water quality parameter compliance: The discharge from any construction / earthwork sites into storm water drainage system shall not contain Total Suspended Solids ("TSS") in concentrations greater than, the prescribed limits under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations. > Minimal or no discharge: Wherever possible, a construction / earthwork site should practise recycling of water. The recycled water could be used for non-potable purposes to minimise discharge into the stormwater drainage systems. > Design criteria: The Erosion Control Measures ("ECM") shall be designed to cope with a minimum design rainfall intensity of a return period of 1 in 5 years storm. > ECM installation before commencement of work: The ECM shall be installed by the site operator / contractor according to the endorsed plans and the completed ECM at site shall be approved by the Qualified Erosion Control Professional ("QECP") before commencement of construction and earthworks. > The site operator/contractor shall ensure that the ECM designed and installed shall be continuously reviewed by the QECP for every stage of the earthworks and construction. The ECM shall remain effective throughout the whole duration of works. The site operator/contractor shall add or amend the ECM at the site according to the design of the QECP.</p> <p><u>Guidelines of effective ECM</u> An effective ECM requires 2 components which shall include, but is not limited to, the following minimum measures in order to meet the legal requirements cited under Regulation 4(1) of the Sewerage and Drainage (Surface Water Drainage) Regulations: > Erosion Control Measures: The erosion control measures shall minimise the extent and duration of any exposed /bare / erodible surfaces by proper work sequencing, covering up of all bare/erodible surfaces and progressive and timely revegetation and stabilisation. > Sediment Control Measures: The sediment control measures shall trap, contain and treat the silty discharges from within a construction / earthworks site (including rain, runoff, water from wash bay, underground water at basement, etc.) by providing: perimeter cut-off drain, perimeter silt fence, intermediate silt trap, sedimentation basin or storage pond/tank, treatment system, turbidity curtains, wheel wash.</p>	Minor	N/A	N/A	N/A	N/A	N/A	> Perform real-time TSS monitoring > Monitor water quality at the natural stream on-site on a monthly basis during the period of in-water or near-water > Conduct Weekly EMMP Inspection

Receptor Type	Type	Recorded	Receptor (Scientific Name)	Receptor (Common Name)	Global Status (IUCN/CITES)	National Status	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual Impact intensity (I)	Residual consequence	Residual likelihood	Residual impact significance
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor

Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry	Low	Low	Not Exepected to Occur	Negligible	

Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections					
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections					
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections					
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections					
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Expected to Occur	Negligible
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections					
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	Moderate	Medium	Medium	Less likely	Minor
														> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site				

Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Medium	Possibly perceived as threat; highly tolerant of human presence	Medium	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Medium	Medium	Less likely	Minor
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site	Low	Low	Not Exepected to Occur	Negligible	

Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Low	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Medium	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible

Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Less Likely	Night works expected to be minimal; safety-critical works only	No night works	Negligible	High	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Low	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Low	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Construction	Human disturbance	High	Negligible	Not adversely affected by human presence	Very Low	Not Exepected to Occur	Not adversely affected by human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Negligible	High	Very Low	Not Exepected to Occur	Negligible

Fauna	Odonate	No	<i>Aciaagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat (stream enhancement and wetland creation only)	Very Low	Not Exepected to Occur	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat (stream enhancement and wetland creation only)	Very Low	Not Exepected to Occur	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat (stream enhancement and wetland creation only)	Very Low	Not Exepected to Occur	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Chalybiothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understorey plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Odonate	No	<i>Aciaagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybiothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Aciaagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybiothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Odonate	No	<i>Aciaagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Possible	Changes to watercourse	Moderate	Ensure unobstructed flow of water along existing watercourse during construction of Wetland and stream enhancement works	High	High	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Possible	Changes to watercourse	Moderate	Ensure unobstructed flow of water along existing watercourse during construction of Wetland and stream enhancement works	High	High	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Possible	Changes to watercourse	Moderate	Ensure unobstructed flow of water along existing watercourse during construction of Wetland and stream enhancement works	High	High	Less likely	Minor	

Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Expected to Occur	Negligible		
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	High	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Crepuscular odonate - sensitive	Medium	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	Medium	Less likely	Minor	
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Negligible	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	High	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Negligible	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Negligible	Low	Possible	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Caltois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor

Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Negligible	Low	Possible	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Negligible	Low	Possible	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Negligible	Low	Possible	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor

Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Medium	Low	Possible	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor

Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	High	Low	Possible	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor

Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross-checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	Negligible	Low	Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachlopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redevye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor	High	High	Not Exepected to Occur	Minor

Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala eumolphus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Nacaduba pactorus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redevye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tytleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastris everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tellicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Less Likely	Impact is not likely to happen during construction	No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caloris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded reedeye	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	Low	Low	Possible	Minor
																> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor

Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in habitats and food sources	High	Negligible	No loss of habitat (stream enhancement and wetland creation only)	Very Low	Not Exepected to Occur	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Negligible		Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas 	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	<ul style="list-style-type: none"> > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections 	Moderate	<ul style="list-style-type: none"> > Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding of wildlife is strictly prohibited 	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding of wildlife is strictly prohibited	Low	High	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	High	Typically perceived as threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible		Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor		High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Arboreal species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor		High	High	Not Exepected to Occur	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor		High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor		High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor		High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Considerable changes in waterbody that may affect connectivity for aquatic species	High	Possible	Changes to watercourse	Moderate	Ensure unobstructed flow of water along existing watercourse during construction of Wetland and stream enhancement works	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	Minor	No night works	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal reptile	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	Minor	No night works	Medium	Medium	Less likely	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	Minor	No night works	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	Minor	No night works	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal reptile	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	Minor	No night works	Medium	Medium	Less likely	Minor	
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	Minor	No night works	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	Moderate	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	Moderate	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	Moderate	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	Moderate	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	Moderate	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	Minor	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Low	Low	Less likely	Minor	
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understorey plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	Moderate	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understorey plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor

Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor

Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible

Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections > Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible

Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	Medium	Medium	Not Exepected to Occur	Minor

Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Low	Low	Not Expected to Occur	Negligible	
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Light disturbance	High	High	Migratory	High	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Light disturbance	High	Medium	Diurnal bird	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor

Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor		Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor		Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	> Restrict entry of site personnel beyond the worksite	High	High	Possible	Moderate
Fauna	Bird	No	<i>Strix selaputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate

Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Accidental injury or mortality	High	High	Attracted to construction sites	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular hoarding inspections to ensure there are no gaps to prevent fauna entry > Conduct regular site inspections to ensure contractor compliance with the EMMP > Use only fully biodegradable erosion control blankets to avoid trapping fossorial fauna such as snakes > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Ensure good housekeeping such as provision of wildlife-proof food waste bins and enclosed eating areas	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Possible	Known to occur at construction sites	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Moderate	> Conduct regular site inspections to ensure contractor compliance with the EMMP > Train site personnel on biodiversity awareness and actions to take when encountering wildlife > Formulate a wildlife response plan to be executed when trapped/ injured/ dead/ dangerous fauna is found on-site > Train site personnel that feeding of wildlife is strictly prohibited	High	High	Less likely	Minor

Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Predominantly ground-dwelling; can be excluded with hoarding	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor	Low	Low	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Arboreal species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Less Likely	Ground-dwelling species; hoarding around Study Area may limit movement between other forest patches; currently fragmented by roads		Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Light disturbance	High	Medium	Diurnal mammal	Medium	Less Likely	Impact could possibly happen or has been known to occur during construction	No night works	Minor	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Construction	Human disturbance	High	Low	Tolerant of human presence	Low	Less Likely	Tolerant of human presence	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Minor	Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	High	High	Possible	Moderate
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Construction	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Major	High	High	Possible	Moderate
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	Low	Low	Possible	Minor

Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in habitats and food sources	High	Low	Loss of <10% of habitat	Low	Certain	NA	> Erect hoardings to delineate worksites involving heavy machinery (i.e., Arrival Node and Wetland)	Moderate	> Avoid areas of high conservation value > For worksites involving manual work only (i.e., trails and boardwalks), ensure the extent of the working space is clearly demarcated on-site and cross checked by a Flora Specialist to avoid unnecessary vegetation clearance > Trail construction, only understory plants are removed when necessary, replanted elsewhere in BBHNP	Low	Low	Possible	Minor
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during construction	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Susceptible to injury or mortality during bamboo felling	High	Possible	2 bamboo clusters directly affected	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct bamboo bat rescue and translocation	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Accidental injury or mortality	High	High	Susceptible to injury or mortality during bamboo felling	High	Possible	2 bamboo clusters directly affected	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > Avoid fogging > No night works > Pre-felling fauna inspections	Moderate	> Conduct bamboo bat rescue and translocation	High	High	Less likely	Minor
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	No night works	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to prevent fauna entry > No night works > Pre-felling fauna inspections	Minor		Low	Low	Less likely	Minor
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area		Minor		Medium	Medium	Not Exepected to Occur	Minor

Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor		
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	Volant species; loss of habitat mainly at the edge of the forest; no fragmentation within Study Area	Minor	High	High	Not Exepected to Occur	Minor		
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Light disturbance	High	High	Nocturnal	High	Less Likely	Impact is a common occurrence during construction	No night works	Minor	High	High	Less likely	Minor	
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Construction	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within worksites but construction areas are extensive	> Erect hoardings around worksites involving heavy machinery (i.e., Arrival Node and Wetland) to limit site personnel movement to within worksites > No night works	Moderate	> Restrict entry of site personnel beyond the worksite	Medium	Medium	Possible	Moderate
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Lasiglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Low	Low	Not Exepected to Occur	Negligible	

Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Low	Not Exepected to Occur	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Exepected to Occur	Not adversely affected by light		Negligible	Negligible	Very Low	Less likely	Negligible

Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operational	Light disturbance	High	Negligible	Aculeata - not sensitive	Very Low	Not Expected to Occur	Not adversely affected by light	Negligible	Negligible	Very Low	Less likely	Negligible
Fauna	Bee	No	<i>Amegilla insularis</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina fuliginosa</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Ceratina ridleyi</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Medium	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomada malayana</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lasioglossum semirussatum</i>	NA	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Lipotriches takauensis</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Nomia apicalis</i>	NA	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Patellapis intricata</i>	NA	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Anthidiellum smithii</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile indonesica</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ornata</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Bee	No	<i>Megachile ramera</i>	NA	Not Assessed	Vulnerable	Operational	Human disturbance	High	Negligible	Not sensitive to human presence	Very Low	Not Expected to Occur	Not adversely affected by human presence	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Chalybiothemis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Expected to Occur	Impact is not expected to happen during operation	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Low	Very Low	Not Expected to Occur	Negligible
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Low	Very Low	Not Expected to Occur	Negligible

Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Low	Very Low	Not Exepected to Occur	Negligible		
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Very Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	Low	High	Not Exepected to Occur	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	Low	High	Not Exepected to Occur	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	Low	High	Not Exepected to Occur	Minor	
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Likely	Park expected to be opened till 2200h		Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Likely	Park expected to be opened till 2200h		Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Crepuscular odonate - sensitive	Medium	Likely	Park expected to be opened till 2200h		Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Medium	Less likely	Minor
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Light disturbance	High	Low	Odonate - slightly sensitive	Low	Likely	Park expected to be opened till 2200h		Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Odonate	No	<i>Aciagrion hisopa</i>	Blue slim	Least Concern	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence		Minor	Low	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Copera vittata</i>	Variable featherlegs	Least Concern	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence		Minor	High	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Gynacantha basiguttata</i>	Spoon-tailed duskhawker	Least Concern	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence		Minor	Medium	Low	Less likely	Minor	
Fauna	Odonate	No	<i>Chalybithermis fluviatilis</i>	Green-eyed percher	Not Assessed	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence		Minor	High	Low	Less likely	Minor	
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	High	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Caltois malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	High	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded reeye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	High	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	Medium	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	High	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible	High	Low	Not Exepected to Occur	Negligible	

Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachiopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	High	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Medium	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Low	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tytleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Medium	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	High	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Low	Very Low	Not Exepected to Occur	Negligible

Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Low	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Low	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	High	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Medium	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Expected to Occur	NA	Negligible	Negligible	Very Low	Not Expected to Occur	Negligible	
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Expected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Expected to Occur	Negligible

Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Potanthus trachala tytleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor

Fauna	Butterfly	No	<i>Catopyrops ancyra</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings	Minor	Medium	Medium	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caltoris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebadea lebadea</i>	Banded redeye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Light disturbance	High	Low	Butterfly - slightly sensitive	Low	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Astictopterus jama jama</i>	Forest hopper	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Borbo cinnara</i>	Formosan swift	Not Assessed	Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Caltris malaya</i>	Malayan swift	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Gangara lebaeae lebaeae</i>	Banded redevye	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pelopidas agna agna</i>	Bengal swift	Not Assessed	Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Potanthus trachala tyleri</i>	Detached dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Suastus everyx everyx</i>	White palm bob	Not Assessed	Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Tapena thwaitesi bornea</i>	Dark flat	Not Assessed	Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Telicota colon stinga</i>	Common palm dart	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor

Fauna	Butterfly	No	<i>Zela storeyi</i>	Storey's palmer	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Ancema blanka blanka</i>	Silver royal	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala amphimuta amphimuta</i>	NA	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala antimuta antimuta</i>	Small tailless oakblue	Not Assessed	Nationally Extinct	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala eumolpus maxwelli</i>	Green oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Arhopala silhetensis adorea</i>	Sylhet oakblue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Catopyrops ancyr</i>	Ancyra blue	Not Assessed	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Jamides alecto ageladas</i>	Metallic caerulean	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Manto hypoleuca terana</i>	Green imperial	Not Assessed	Nationally Extinct	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba kurava nemana</i>	Transparent sixline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba pactolus odon</i>	Large fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Nacaduba sanaya elioti</i>	Jewel fourline blue	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Rachana jalindra burbona</i>	Banded royal	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Charaxes solon echo</i>	Black rajah	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Discophora sondaica despoliata</i>	Common duffer	Not Assessed	Critically Endangered	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Neptis harita harita</i>	Chocolate sailor	Not Assessed	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Vagrans sinha sinha</i>	Vagrant	Not Assessed	Nationally Extinct (Rediscovered)	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Pachliopta aristolochiae asteris</i>	Common rose	Not Assessed	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Papilio prexaspes prexaspes</i>	Blue helen	Not Assessed	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Butterfly	No	<i>Troides helena cerberus</i>	Common birdwing	Not Assessed; CITES protected (Appendix II)	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor	Low	Low	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor

Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Accidental injury or mortality	High	High	Terrestrial reptile - high susceptibility	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Possible	Reptile - possibly implicated in human-wildlife conflict	Moderate	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Reptile not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Reptile not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Reptile not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Possible	Reptile - possibly implicated in human-wildlife conflict	Moderate	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal reptile	Medium	Likely	Park expected to be opened till 2200h	Moderate	Medium	Medium	Less likely	Minor	
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	High	High	Less likely	Minor	
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal reptile	Medium	Likely	Park expected to be opened till 2200h	Moderate	Medium	Medium	Less likely	Minor	

Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Reptiles	No	<i>Boiga cynodon</i>	Dog-toothed cat snake	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Gonyosoma oxycephalum</i>	Red-tailed racer	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Oligodon signatus</i>	Barred kukri snake	Least Concern	Endangered	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Ptyas fusca</i>	White-bellied rat snake	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Sibynophis melanocephalus</i>	Black-headed collared snake	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Reptiles	No	<i>Cuora amboinensis</i>	Malayan box terrapin	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Low	Low	Possible	Minor
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor		Medium	Medium	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor		Medium	Medium	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor		Medium	Medium	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Exepected to Occur	No major new buildings	Minor		High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Exepected to Occur	No major new buildings	Minor		High	High	Not Exepected to Occur	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Exepected to Occur	No major new buildings	Minor		High	High	Not Exepected to Occur	Minor

Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor	Medium	Medium	Not Exepected to Occur	Minor		
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Accidental injury or mortality	High	High	Migratory	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor		
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor		
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Accidental injury or mortality	High	High	Forest edge frugivore	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor		
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor	Medium	Medium	Not Exepected to Occur	Minor		
Fauna	Bird	No	<i>Strix selaputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Accidental injury or mortality	High	Medium	Resident with known records of bird-building collision	Medium	Not Exepected to Occur	No major new buildings	Minor	Medium	Medium	Not Exepected to Occur	Minor		
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Low susceptibility to bird building collision	Low	Not Exepected to Occur	Impact is not expected to happen during operation	Negligible	Low	Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Strix selaputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Negligible	Not perceived as nuisance or threat	Very Low	Not Exepected to Occur	NA	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible		
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter vistors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter vistors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible	

Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Poaching	High	Medium	Commonly traded as pets	Medium	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Poaching	High	Low	Not commonly known to be traded as pets	Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	High	High	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	High	High	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Poaching	High	Medium	Commonly traded as pets	Medium	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Moderate	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings		Negligible	Low	Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor	Medium	Medium	Not Exepected to Occur	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthurhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor

Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings	Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings	Minor	Medium	Medium	Not Exepected to Occur	Minor	
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Low	Slightly dependent on connected habitats for dispersal and adaptable to traverse urban infrastructures if needed	Low	Not Exepected to Occur	No major new buildings	Negligible	Low	Low	Not Exepected to Occur	Negligible	
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bird	No	<i>Nisaetus cirhatius</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Light disturbance	High	High	Migratory	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Migratory	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Migratory	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Light disturbance	High	High	Migratory	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h	Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor

Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Light disturbance	High	Medium	Diurnal bird	Medium	Likely	Park expected to be opened till 2200h	Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Nisaetus cirrhatus</i>	Changeable hawk-eagle	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Spilornis cheela</i>	Crested serpent eagle	Least Concern; CITES protected (Appendix II)	Critically Endangered	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Alcedo meninting</i>	Blue-eared kingfisher	Least Concern	Endangered	Operational	Human disturbance	High	High	Sensitive to human presence	High	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Halcyon coromanda</i>	Ruddy kingfisher	Least Concern	Critically Endangered	Operational	Human disturbance	High	High	Sensitive to human presence	High	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Collocalia affinis</i>	Plume-toed swiftlet	Least Concern	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Corvus macrorhynchos</i>	Large-billed crow	Least Concern	Vulnerable	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence	Minor		Low	Low	Less likely	Minor
Fauna	Bird	No	<i>Chrysococcyx xanthorhynchus</i>	Violet cuckoo	Least Concern	Vulnerable	Operational	Human disturbance	High	High	Sensitive to human presence	High	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	Yes	<i>Lanius cristatus</i>	Brown shrike	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Copsychus saularis</i>	Oriental magpie-robin	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	No	<i>Cyornis brunneatus</i>	Brown-chested jungle flycatcher	Vulnerable	Vulnerable	Operational	Human disturbance	High	High	Sensitive to human presence	High	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor

Fauna	Bird	Yes	<i>Psittacula longicauda</i>	Long-tailed parakeet	Vulnerable; CITES protected (Appendix II)	Near Threatened	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Pycnonotus zeylanicus</i>	Straw-headed bulbul	Critically Endangered; CITES protected (Appendix I)	Endangered	Operational	Human disturbance	High	High	Sensitive to human presence	High	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bird	No	<i>Ketupa ketupu</i>	Buffy fish owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Major	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Possible	Moderate
Fauna	Bird	No	<i>Strix seloputo</i>	Spotted wood owl	Least Concern; CITES protected (Appendix II)	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bird	Yes	<i>Zosterops simplex</i>	Swinhoe's white-eye	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks	Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Accidental injury or mortality	High	High	Known to cross roads - highly susceptible to roadkills	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor		High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor		High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Accidental injury or mortality	High	High	Ground-dwelling mammal - highly susceptible to roadkills	High	Less Likely	Target visitors are mostly residents from surrounding estates; no carpark; increase in traffic not substantial	Minor		High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Human-Wildlife conflict	High	High	Typically perceived as both nuisance and threat	High	Possible	Mammal - possibly implicated in human-wildlife conflict	Moderate	> Put up signages to educate visitors on appropriate behaviours when encountering fauna > Design bins to be wildlife-proof	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict	Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict	Minor		Low	Low	Less likely	Minor

Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible		Negligible	Very Low	Not Exepected to Occur	Negligible
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor		High	High	Not Exepected to Occur	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor		Medium	Medium	Not Exepected to Occur	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Light disturbance	High	Medium	Diurnal mammal	Medium	Likely	Park expected to be opened till 2200h		Moderate	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	Medium	Medium	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Non-volant mammal	Yes	<i>Macaca fascicularis</i>	Long-tailed macaque	Vulnerable; CITES protected (Appendix II)	Least Concern	Operational	Human disturbance	High	Low	Slightly sensitive to human presence	Low	Less Likely	Tolerant of human presence		Minor		Low	Low	Less likely	Minor
Fauna	Non-volant mammal	No	<i>Prionailurus bengalensis</i>	Leopard cat	Least Concern; CITES protected (Appendix I)	Critically Endangered	Operational	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h		Major	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Possible	Moderate
Fauna	Non-volant mammal	No	<i>Manis javanica</i>	Sunda pangolin	Critically Endangered; CITES protected (Appendix I)	Critically Endangered	Operational	Human disturbance	High	High	Sensitive to human presence	High	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h		Major	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	High	High	Possible	Moderate
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Accidental injury or mortality	High	Low	Volant - low susceptibility	Low	Not Exepected to Occur	Impact is not expected to happen during operation		Negligible		Low	Low	Not Exepected to Occur	Negligible
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance, less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict		Minor		Low	Low	Less likely	Minor

Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor		
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor		
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Human-Wildlife conflict	High	Low	Possibly perceived as nuisance; less tolerant of human presence	Low	Less Likely	Mammal not known to be implicated in human-wildlife conflict	Minor	Low	Low	Less likely	Minor		
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Poaching	High	High	CITES Appendix I or II	High	Likely	Increased accessibility to carry out poaching activities; Singapore's zero-tolerance stance to illegal wildlife trade	Wildlife Act	Major	> Conduct regular patrols to deter poaching activities > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail > Design for boardwalks and trails to deter visitors from venturing off-trail	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Poaching	High	Negligible	Negligible susceptibility to poaching	Very Low	Not Exepected to Occur	Not likely to be poached	Wildlife Act	Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Medium	Dependent on connected habitats for dispersal	Medium	Not Exepected to Occur	No major new buildings		Minor	Medium	Medium	Not Exepected to Occur	Minor	
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	Negligible	Not dependent on connected habitats for dispersal and able to traverse urban infrastructure	Very Low	Not Exepected to Occur	No major new buildings		Negligible	Negligible	Very Low	Not Exepected to Occur	Negligible	
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Loss of/reduction in ecological connectivity for faunal movement	High	High	Highly dependent on connected habitats for dispersal	High	Not Exepected to Occur	No major new buildings		Minor	High	High	Not Exepected to Occur	Minor	
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Light disturbance	High	High	Nocturnal	High	Likely	Park expected to be opened till 2200h		Major	> Incorporate wildlife-friendly lighting > Close the park and associated facilities to the public during the night (1900-0700 h)	High	High	Less likely	Minor
Fauna	Bat	No	<i>Eonycteris spelaea</i>	Cave nectar bat	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Possible	Human traffic confined within built-up areas, trails/boardwalks		Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Pteropus vampyrus</i>	Large flying-fox	Near Threatened; CITES protected (Appendix II)	Critically Endangered	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h		Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor
Fauna	Bat	No	<i>Tylonycteris fulvida</i>	Lesser bamboo bat	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h		Moderate	> Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail	Medium	Medium	Less likely	Minor

Fauna	Bat	No	<i>Tylonycteris malayana</i>	Greater bamboo bat	Least Concern	Vulnerable	Operational	Human disturbance	High	Medium	Possibly sensitive to human presence	Medium	Likely	Human traffic confined within built-up areas, trails/boardwalks; park expected to be opened till 2200h	Moderate	<ul style="list-style-type: none"> > Conduct regular post-construction biodiversity monitoring to determine if the increased visitorship has affected fauna species > Design the boardwalks and trails to deter visitors from venturing off-trail (e.g., install railings) > Close park during the night (1900-0700h) > Design for dense landscaping along the sides of the proposed trails and boardwalks to deter visitors from venturing off-trail 	Medium	Medium	Less likely	Minor
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Receptor Type	Type	Habitat	Phase	Impact type	Impact category	Sensitivity (S)	Key minimum controls	Impact intensity (I)	Reason	Consequence (C = S x I)	Likelihood (L)	Reason	Impact significance (C x L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance	Remarks
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Loss of habitat	Direct	Priority 1		Negligible	No overlap	Very Low	Unlikely	No development	Negligible		Negligible	Very Low	Unlikely	Negligible	
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Loss of habitat	Direct	Priority 2		Low	< 10%	Very Low	Certain	Overlaps with worksite	Minor		Low	Very Low	Certain	Minor	
Habitat	Terrestrial	Abandoned-land forest	Construction	Loss of habitat	Direct	Priority 2	Hoarding installation, TPZ installation, daily checks by EM	Low	< 10%	Very Low	Certain	Overlaps with worksite	Minor		Low	Very Low	Certain	Minor	
Habitat	Terrestrial	Scrubland	Construction	Loss of habitat	Direct	Priority 3		Low	< 10%	Very Low	Certain	Overlaps with worksite	Minor		Low	Very Low	Certain	Minor	
Habitat	Aquatic	Stream E1a	Construction	Loss of habitat	Direct	Priority 2		Negligible	No loss (stream enhancement and wetland creation)	Imperceptible	Unlikely	No loss (stream enhancement and wetland creation)	Negligible		Negligible	Imperceptible	Unlikely	Negligible	
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Habitat degradation	Indirect	Priority 1		Negligible	No overlap	Very Low	Unlikely	No development	Negligible		Negligible	Very Low	Unlikely	Negligible	
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Habitat degradation	Indirect	Priority 2	ECM implementation, proper stockpiling, DCM implementation, ensure noise levels within approved limits, daily checks by EM, avoid fogging	Medium	14.2% (1.06 ha)	Low	Less likely	Minimum controls	Minor		Medium	Low	Less likely	Minor	
Habitat	Terrestrial	Abandoned-land forest	Construction	Habitat degradation	Indirect	Priority 2		High	42.3% (1.06 ha)	Medium	Less likely	Minimum controls	Minor		High	Medium	Less likely	Minor	
Habitat	Terrestrial	Scrubland	Construction	Habitat degradation	Indirect	Priority 3		Medium	12.1% (0.261 ha)	Very Low	Less likely	Minimum controls	Negligible		Medium	Very Low	Less likely	Negligible	
Habitat	Aquatic	Stream E1a	Construction	Habitat degradation	Indirect	Priority 2		Low	Some changes in surface water quality	Very Low	Less likely	Minimum controls	Negligible		Low	Very Low	Less likely	Negligible	
Habitat	Terrestrial	Native-dominated secondary forest	Construction	Formation of edge effects	Indirect	Priority 1		Negligible	No overlap	Very Low	Unlikely	No overlap	Negligible		Negligible	Very Low	Unlikely	Negligible	NIL
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Construction	Formation of edge effects	Indirect	Priority 2		High	> 40% increase in P/A	Medium	Less likely	Small development (trail)	Minor		High	Medium	Less likely	Minor	NIL
Habitat	Terrestrial	Abandoned-land forest	Construction	Formation of edge effects	Indirect	Priority 2		High	> 40% increase in P/A	Medium	Less likely	The proposed entrance [i.e., arrival node] and wetland creation will be created mostly within the footprint of existing old trails within BBHNP. Clearance within the understorey layer of this habitat type would be done selectively with the aim to retain as much existing vegetation/forest structure as possible.	Minor	> Design for dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions.	High	Medium	Less likely	Minor	No change to impact significance. Impact cannot be lowered anymore.
Habitat	Terrestrial	Scrubland	Construction	Formation of edge effects	Indirect	Priority 3	NA	High	> 40% increase in P/A	Low	Less likely	Considerable development (main entrance and wetland creation) but habitat is already edge habitat	Minor	Infill planting at certain areas within this habitat type, especially near the proposed arrival node and wetland.	High	Low	Less likely	Minor	NIL
Habitat	Aquatic	Stream E1a	Construction	Formation of edge effects	Indirect	Priority 2		NA	NA	NA	NA	This impact was qualitatively assessed. Currently, the stream is already exposed to changes to microclimate and edge effects due to the ongoing site clearance and development adjacent to BBHNP. Proposed trails will be created within the footprint of existing old trails within BBHNP. As such, clearance within the understorey layer of this habitat type shall be done selectively to retain as much existing vegetation/forest structure as possible.	Minor	Enhancement works	NA	NA	NA	Minor	The proposed enhancement works to this habitat may result in positive impact significance during the operational phase.
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Habitat degradation	Indirect	Priority 1		Negligible	No overlap	Very Low	Unlikely	No development	Negligible		Negligible	Very Low	Unlikely	Negligible	
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Habitat degradation	Indirect	Priority 2		Medium	14.2% (1.06 ha)	Low	Less likely	Trail with rope railing	Minor		Medium	Low	Less likely	Minor	
Habitat	Terrestrial	Abandoned-land forest	Operational	Habitat degradation	Indirect	Priority 2	Avoid fogging	High	42.3% (1.06 ha)	Medium	Less likely	Trail with rope railing	Minor		High	Medium	Less likely	Minor	
Habitat	Terrestrial	Scrubland	Operational	Habitat degradation	Indirect	Priority 3		Medium	12.1% (0.261 ha)	Very Low	Less likely	Trail with rope railing	Negligible		Medium	Very Low	Less likely	Negligible	
Habitat	Aquatic	Stream E1a	Operational	Habitat degradation	Indirect	Priority 2		Low	Some changes in surface water quality	Very Low	Less likely	Trails with rope railing, surface runoff controlled and littering not expected	Negligible		Low	Very Low	Less likely	Negligible	
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Changes in microclimatic conditions	Indirect	Priority 1		Negligible	No overlap	Very Low	Unlikely	No development	Negligible		Negligible	Very Low	Unlikely	Negligible	
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Changes in microclimatic conditions	Indirect	Priority 2		Medium	14.2% (1.06 ha)	Low	Unlikely	Development is largely green	Negligible		Medium	Low	Unlikely	Negligible	
Habitat	Terrestrial	Abandoned-land forest	Operational	Changes in microclimatic conditions	Indirect	Priority 2	Ensure noise levels within approved limits, ensure dust levels within approved limits	High	42.3% (1.06 ha)	Medium	Unlikely	Development is largely green	Negligible		High	Medium	Unlikely	Negligible	
Habitat	Terrestrial	Scrubland	Operational	Changes in microclimatic conditions	Indirect	Priority 3		Medium	12.1% (0.261 ha)	Very Low	Unlikely	Development is largely green	Negligible		Medium	Very Low	Unlikely	Negligible	
Habitat	Aquatic	Stream E1a	Operational	Changes in microclimatic conditions	Indirect	Priority 2		High	>40% overlap	Medium	Unlikely	Development is largely green	Negligible		High	Medium	Unlikely	Negligible	
Habitat	Terrestrial	Native-dominated secondary forest	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 1		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Habitat	Terrestrial	Abandoned-land forest with native recruitment	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Habitat	Terrestrial	Abandoned-land forest	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Habitat	Terrestrial	Scrubland	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 3		NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Habitat	Aquatic	Stream E1a	Operational	Introduction of exotic species (aquatic habitats only)	Indirect	Priority 2		Low	Some impact to exotic-dominated habitat	Very Low	Certain	For members of public to visit, accessible to public	Minor		Low	Very Low	Certain	Minor	

Receptor Type	Type	Species	Phase	Impact type	Sensitivity (S)	Impact intensity (I)	Rationale for impact intensity	Consequence (C = S × I)	Likelihood (L)	Rationale for likelihood	Key minimum controls	Impact significance (C × L)	Key mitigation measures	Residual impact intensity	Residual consequence	Residual likelihood	Residual impact significance
Flora	Indirect	<i>Lomariopsis lineata</i>	Construction	Decline in plant health	High	High	1 specimen (only sole specimen in Study Area) affected indirectly by development of entrance and hydrology changes to stream	High	Likely	This species will likely be affected by the hydrological changes of the stream	NIL	Major	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Negligible	Very Low	Unlikely	Negligible
Flora	Indirect	<i>Bambusa vulgaris</i>	Construction	Decline in plant health	High	Low	5/14 specimen affected indirectly by development of trails and southern entrance/pond area	Low	Possible	Formation of some forest edges in a mix of forested and scrubland, areas; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Breynia discigera</i>	Construction	Decline in plant health	High	Low	2/5 specimens affected indirectly by the development of trails	Low	Possible	Formation of some forest edges in a mix of forested and scrubland, areas; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Bridelia stipularis</i>	Construction	Decline in plant health	High	Low	7/16 specimens affected indirectly by development of trails	Low	Possible	Formation of some forest edges in a mix of forested, scrubland, and urban vegetation areas; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Campnosperma auriculatum</i>	Construction	Decline in plant health	High	Medium	1/2 specimen will be indirectly affected by the development of secondary entrance at the north	Medium	Unlikely	No formation of forest edges (i.e., construction activities will be at existing GFRC trail which is already non-forested)	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Clerodendrum villosum</i>	Construction	Decline in plant health	High	High	All remaining specimens indirectly affected by the construction of arrival node and proposed wetland	High	Less likely	Formation of some forest edges in a mix of forested and scrubland area ; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Cyrtococcum patens</i>	Construction	Decline in plant health	High	High	All specimens indirectly affected by the primary entrance and pond construction	High	Unlikely	No formation of forest edges. Plant specimens remain in their original forested habitats	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Ficus apiocarpa</i>	Construction	Decline in plant health	High	Low	10/44 specimens affected by proposed trails	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area ; plant specimens previously in forested areas now exposed to some edge habitats	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Glochidion zeylanicum var. zeylanicum</i>	Construction	Decline in plant health	High	High	6/7 specimens affected indirectly by construction of main entrance	High	Less likely	Formation of some forest edges in a mix of forested and scrubland area ; plant specimens in forested area are already acclimatised to edge habitats. .	Implement soil erosion control measures	Minor	> Design for and implement dense landscaping and infill planting at areas that are cleared, at existing gaps in forested areas, and along the sides of the proposed trails and boardwalks to buffer the surrounding forested areas from changes in microclimatic conditions > conduct regular inspections to ensure contractor compliance with the EMMP > Adjust design footprint to ensure Priority 1 plant species are not within the impact zones > Adjust the construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	No change	No change	No change	Minor
Flora	Indirect	<i>Goniophlebium percussum</i>	Construction	Decline in plant health	High	Low	4/10 specimens indirectly affected by construction of proposed trails	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area ; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Guioa pubescens</i>	Construction	Decline in plant health	High	Low	1/3 specimens indirectly affected by construction of trails	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Gynochthodes rigida</i>	Construction	Decline in plant health	High	Low	9/39 specimens affected indirectly by construction of trail	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Limacia scandens</i>	Construction	Decline in plant health	High	Low	3/12 specimens indirectly affected by construction of primary entrance	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Melicope lunu-ankenda</i>	Construction	Decline in plant health	High	Low	6/13 specimens indirectly affected by construction of trails and possible stream enhancement works	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor

Flora	Indirect	<i>Oxycceros longiflorus</i>	Construction	Decline in plant health	High	Low	2/7 specimens indirectly affected by construction of the primary entrance and possible stream enhancement works	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Tetracera fagifolia var. borneensis</i>	Construction	Decline in plant health	High	Low	3/15 specimens indirectly affected by construction of trails	Low	Possible	Formation of some forest edges in a mix of forested and scrubland area; plant specimens previously in forested areas now exposed to some edge habitats.	Implement soil erosion control measures	Minor	NA	No change	No change	No change	Minor
Flora	Indirect	<i>Anglesia splendens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Conarus semidecandrus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Curculigo capitulata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Embelia canescens var. glabrescens</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus vasculosa</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Hedyotis prostrata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea umbellata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga hulletii</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Sticherus cf. truncatus</i>	Construction	Decline in plant health	High	Negligible	No specimen affected directly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Symplocos fasciculata</i>	Construction	Decline in plant health	High	Negligible	No specimen affected indirectly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Tetracera akara</i>	Construction	Decline in plant health	High	Negligible	No specimen affected directly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Indirect	<i>Xanthophyllum ellipticum</i>	Construction	Decline in plant health	High	Negligible	No specimen affected directly by development	Very Low	Unlikely	No specimen affected indirectly by development	NIL	Negligible	NA	No change	No change	No change	Negligible
Flora	Direct	<i>Bambusa vulgaris</i>	Construction	Mortality	High	Negligible	1/15 (< 10%) specimens affected by the entrance and pond construction	Very Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Minor	> Avoid areas of high conservation value > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist	Negligible	Very Low	Not expected to happen	Negligible
Flora	Direct	<i>Ficus apiocarpa</i>	Construction	Mortality	High	Negligible	2/46 (< 10%) specimens affected by the construction of trails and entrances	Very Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Minor	> Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP	Negligible	Very Low	Not Expected to Happen	Negligible
Flora	Direct	<i>Melicope lunu-ankenda</i>	Construction	Mortality	High	Negligible	1/14 (<10%) specimens affected by the construction of trail	Very Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Minor	> Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP	Negligible	Very Low	Not Expected to Happen	Negligible

Flora	Direct	<i>Glochidion zeylanicum</i> var. <i>zeylanicum</i>	Construction	Mortality	High	Low	4/11 specimens affected by the construction of pond and south entrance	Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not expected to happen	Negligible
Flora	Direct	<i>Guioa pubescens</i>	Construction	Mortality	High	Low	1/4 specimens affected by the construction of trail	Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not expected to happen	Negligible
Flora	Direct	<i>Litsea umbellata</i>	Construction	Mortality	High	Low	1/4 specimens affected by the construction of trail	Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not expected to happen	Negligible
Flora	Direct	<i>Oxyceros longiflorus</i>	Construction	Mortality	High	Low	1/8 specimens affected by the construction of trail	Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Moderate	<ul style="list-style-type: none"> > Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the worksites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP 	Negligible	Very Low	Not expected to happen	Negligible

Flora	Direct	<i>Tetracera fagifolia var. borneensis</i>	Construction	Mortality	High	Low	1/16 (<10%) specimens affected by the construction of trail	Very Low	Certain	Specimen located on the proposed footprint of worksite	NIL	Minor	> Avoid areas of high conservation value > Adjust design footprint to avoid Priority 1 plant species > Adjust construction footprint of boardwalks and trails to avoid Priority 1 plant species, in consultation with a Flora Specialist > Arborists to determine suitable TPZs for any trees that will be retained within the workites > Ensure construction works, material and waste storage, access routes, etc., are kept within the boundaries of the worksite or agreed working space > Transplant or salvage saplings of conservation significance > Conduct regular inspections in the surrounding habitats to ensure no removal of vegetation has occurred beyond the agreed worksite boundaries > Conduct regular site inspections to ensure contractor compliance with the EMMP	Negligible	Very Low	Not expected to happen	Negligible
Flora	Direct	<i>Angelesia splendens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Breynia discigera</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Bridelia stipularis</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Campnosperma auriculatum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Clerodendrum villosum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Conarus semidecandrus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Curculigo capitulata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Cyrtococcum patens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Embelia canescens var. glabrescens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Ficus vasculosa</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Goniophlebium percussum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Gynochthodes rigida</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Hedyotis prostrata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Limacia scandens</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Lomariopsis lineata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Macaranga hulletii</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Sticherus cf. truncatus</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Symplocos fasciculata</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Tetracera akara</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Direct	<i>Xanthophyllum ellipticum</i>	Construction	Mortality	High	Negligible	No specimen affected directly by development	Very Low	Not expected to happen	No specimen will be affected by impact of mortality	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Angelesia splendens</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Bambusa vulgaris</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Install TPZ around trees that lies n close proximity to worksite and those that will be retained	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Breynia discigera</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Bridelia stipularis</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Campnosperma auriculatum</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	Install TPZ around trees that lies n close proximity to worksite and those that will be retained	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Clerodendrum villosum</i>	Operational	Poaching	High	Negligible	Specimens are too large to be poached	Very Low	Possible	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Conarus semidecandrus</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Unlikely	Specimens are clustered/spread out, and are inaccessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Curculigo capitulata</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Cyrtococcum patens</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Embelia canescens var. glabrescens</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus apiocarpa</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Ficus vasculosa</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Glochidion zeylanicum var. zeylanicum</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Goniophlebium percussum</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible
Flora	Indirect	<i>Guioa pubescens</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are spread out, and accessible to members of public	NIL	Negligible		No change	No change	No change	Negligible

Flora	Indirect	<i>Gynochthodes rigida</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Hedyotis prostrata</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Limacia scandens</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Litsea umbellata</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Lomariopsis lineata</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are inaccessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Macaranga hulletii</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Melicope lunu-ankenda</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Oxyceros longiflorus</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Sticherus cf. truncatus</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are not accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Symplocos fasciculata</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Tetracera akara</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Tetracera fagifolia var. borneensis</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible
Flora	Indirect	<i>Xanthophyllum ellipticum</i>	Operational	Poaching	High	Negligible	No plant specimens of this species could get stolen (i.e., not charismatic, no ethnobotanical value)	Very Low	Less likely	Specimens are clustered/spread out, and are accessible to members of public	NIL	Negligible	No change	No change	No change	Negligible

Appendix 2

Annexes to the Environmental Tender Specifications

Annex A

Tree Protection and Conservation Guidelines

Annex A

GUIDELINES FOR TREE PROTECTION AND CONSERVATION

By

Derek Yap

Lead Arborist

Camphora Pte Ltd

ISA certified

SG-0117A

CONTENT REQUIREMENTS

This document outlines specific measures to protect trees during construction or other site disturbance. The content and scope of the document will vary based on the site, type of construction, tree species, tree location and other factors.

TREE PROTECTION AND CONSERVATION GUIDELINES

This section outlines the general provisions for tree protection before, during and after construction. Additional measures may be added by the attending arborist on a case-by-case basis.

PRE-DEMOLITION/PILING/CONSTRUCTION

1. Pre-Construction Meeting

The attending arborist shall attend a pre-construction meeting with the project contractor or construction supervisor to explain the tree protection and monitoring requirements as outlined in this document.

In addition, the project contractor or construction supervisor shall complete the 'VERIFICATION OF TREE PROTECTION CHECKLIST' as attached in Annex A before the onset of the construction.

1.1 Tree Protection Zone

Prior to any site clearing (demolition works), piling works, grading, trenching or other soil disturbance, a tree protection zone (TPZ) must be installed as follows:

- i. Type
The barriers should be temporary, made of a hard material, 1.8-m tall and firmly installed into the ground. If footings are required, there should be no on-site casting of footings
- ii. Ground protection
Mulching material (can be compost or woodchips) at 100-mm thick to be laid within the TPZ. Woodchips with termiticide treatment should not be used to avoid chemical leeching into the soil

Apply complete fertilizer (N:P:K 15:15:15) upon or together with the application of mulch.

iii. Signage

A readily-visible and waterproof sign shall be installed on all sides of the fencing around each individual protected tree. The size of each sign must be a minimum of 300mm wide and must contain the wording below:

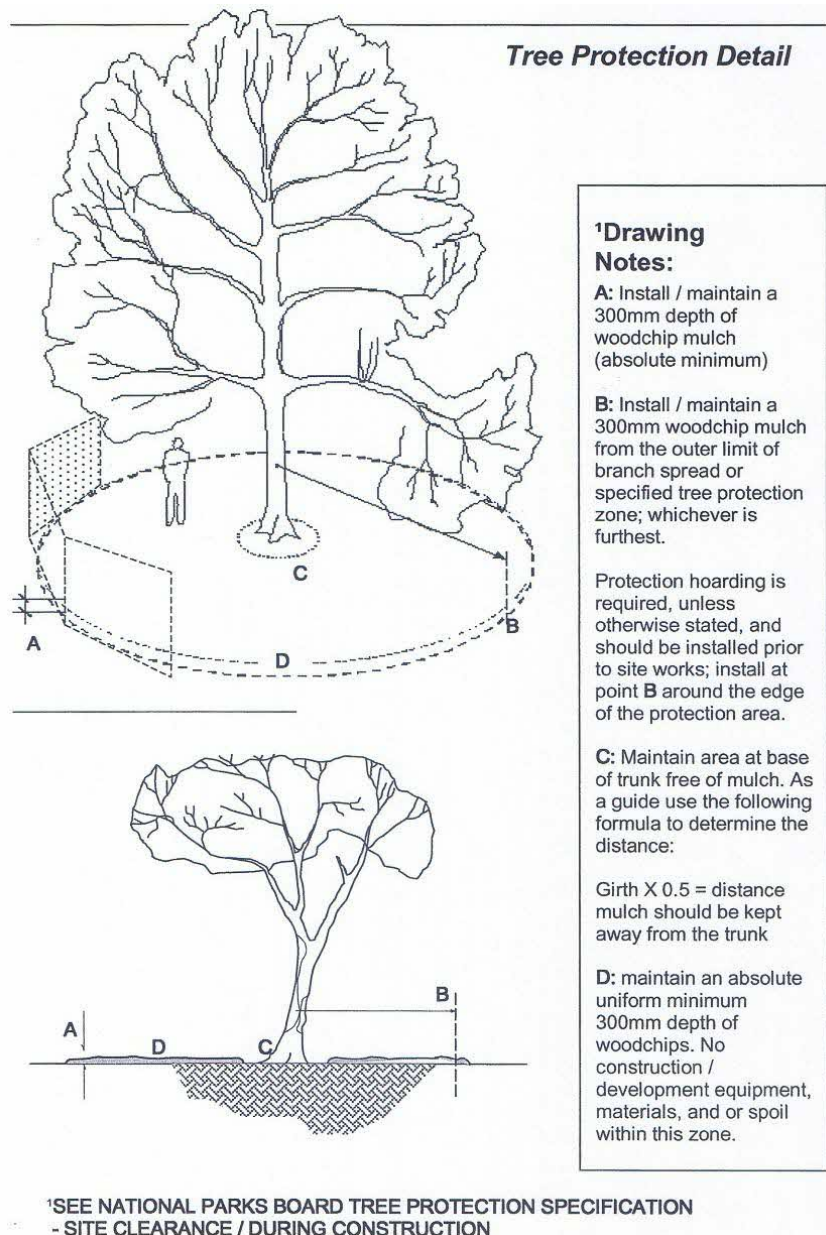


Entry prohibited. This fence shall remain in place throughout the entire construction period.

iv. Fencing installation

Installation must be approved by the attending arborists and/or the approved authority prior to construction.

A diagrammatic representation of a proper tree protection zone is presented below. The actual dimensions of the tree protection zone should be determined and documented by the attending Arborist.



1.2 Tree pruning and removal

Various trees may need to be pruned away from structures or proposed construction activity. **Construction or contractor personnel shall not attempt pruning or removal.** Consultation and written approval with attending arborist must be obtained prior to pruning.

Removal of trees adjacent to trees that are to be retained requires planning and skilled arboriculture workers. Trees should not be removed by pushing with excavators/heavy machinery or with lumberjack (one cut) methods. Directional felling methods (notch and back-cut) should be deployed during removal of trees.

Removal of trees that extend into branches or roots of protected trees shall not be attempted by the demolition or construction crew, or by grading or other heavy equipment. Before removing tree stumps, the project manager shall seek the advice from the attending arborist determine if roots are entangled with trees that are to remain. If so, these stumps shall have their roots severed before extracting them.

1.3 Site Clearance

To avoid lumber jack felling of trees that may severely damage the canopy of conserved trees, it is recommended that qualified (see Point 4.3 Tree Conservation Guidelines) Arboriculture contractors be engage to fell trees adjacent to protected trees to ensure that the trees (when cut) fall away from the protected trees and their associated TPZs.

Contractors carry out tree felling works near assigned TPZs of conserved trees should

- i. Employ directional felling through the use of notch and back cuts
- ii. Deploy cranes to tension trunks in the direction of the drop
- iii. Carry out pruning of canopy branches to remove entangling branches
- iv. If trees to be removed are taller than neighbouring trees to be retained, removal of branches should be carried out in a controlled manner using ropes and cranes to avoid damaging canopy of the lower trees.
- v. To avoid pruning of conserved trees at the proximity unless consultation and approval from attending arborist has been obtained.
- vi. No tree should be removed by pushing with an excavator or heavy machinery.

DURING DEMOLITION/PILING/CONSTRUCTION

2. Tree Protection Zone Restrictions

- No ground disturbance, grading, trenching or other construction activities shall occur within the TPZ except as specified and/or approved by the attending arborist or authority.
- No construction material, debris, machinery (e.g. generators) or other construction waste shall be stored within the TPZ. Weight and presence of these materials increases soil compaction and reduces the area exposed for water infiltration and gaseous exchange.



Figure 1: Construction material and heavy machinery are prohibited within the TPZ

- Excavation works within the TPZ are strictly prohibited. Unless otherwise specified by the attending arborist, all work done within the TPZ shall be completed with manual trenching with hand tools or other hand held power tools that will not cause any root/tree damage.

If roots need to be cut, it shall be done using proper equipment (e.g. pruning saw, chain saw) under the supervision of the attending arborist.



Figure 2: Trial trench by skilled workers using hand tools exposing root architecture

- Nailing, tying or pasting of materials on trees is prohibited. The tree shall not be used as an anchor for supporting structures during the construction.



Figure 3: Using tree as anchor may damage its bark.



Figure 4: No nails shall be driven into the tree as it promotes infiltration of pests/diseases

- Phytotoxic materials such as fuels, oils, cement, chemicals, and paint shall be kept away and stored/mixed at least 2.5m from the tree protection zone. Such chemicals can significantly change the cation exchange capacity and pH of the soil, rendering nutrient uptake inefficient and creating an environment too toxic for the roots to grow.

Construction sludge especially from piling works should not be deposited within the TPZ. Such sludge is usually high in clay content and when layered over and within the TPZ could significantly alter the water infiltration and gaseous exchange rates of the root absorption area of the tree.

Canvass sheets/Eco-mat must be laid on the existing soil near the tree in view of soil protection during the demolition, drilling or other construction activities pertaining to concrete structures.



Figure 5: Construction cement deposited at tree base.



Figure 6: Tree showing signs of decline overtime.

- Lowering the grade around trees can have an immediate and long-term effect on trees.

Typically, most roots are within the top 1m of soil, and most of the fine roots active in water and nutrient absorption are in the top 300mm.

A) Grade changes within the TPZ are not permitted.

B) Grade changes outside the TPZ shall not significantly alter drainage.

C) Grade changes under specifically approved circumstances shall not allow more than 200mm of fill soil or allow more than 150mm of existing soil to be removed from

natural grade, unless mitigated.

D) Grade fills over 200mm or impervious overlay shall incorporate an approved permanent aeration system, permeable material, or other approved mitigation.

E) Grade cuts exceeding 150mm shall incorporate retaining walls or an appropriate transition equivalent.

No removal of the TPZ will be permitted under any circumstances.



Figure 7: Inappropriate installation/maintenance of TPZ during construction.

2.2 Proximity of Heavy machinery/vehicles

Heavy vehicles and machinery (e.g. excavators, piling cranes, 10 wheelers) movement should be limited near TPZs. Temporary access/passageways should be planned to avoid conserved trees.

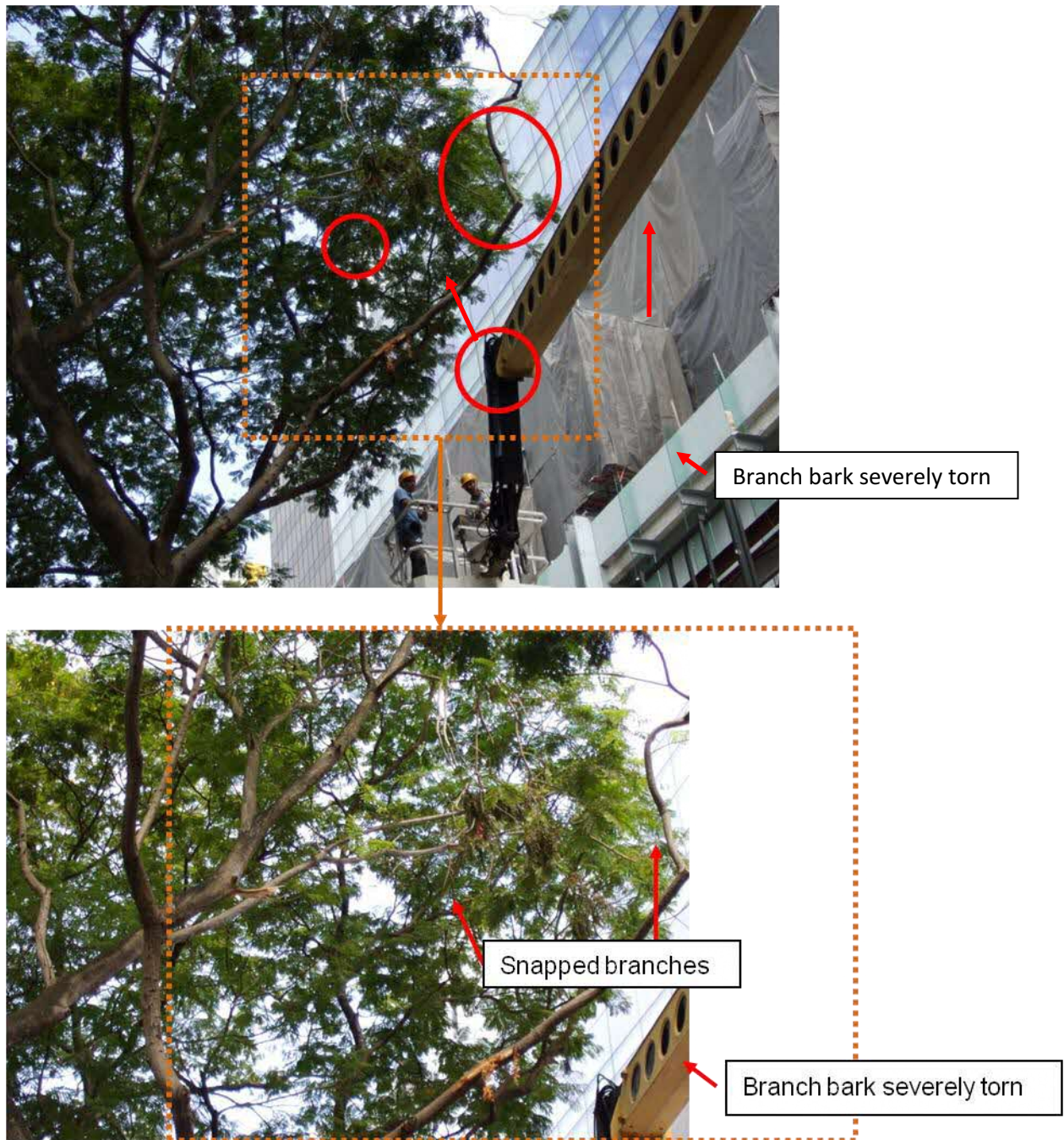


Figure 8: Tree branches were severed due to the negligence of the crane operator.

2.3 Drainage Considerations

In the event that water ponding conditions develop in the course of construction due to change in grade/platform levels, construction events or any other unforeseeable factors, the contractor is required to improve drainage around or within the TPZ in consultation with the attending arborist.

2.4 Trenching, Excavation and Equipment use

Trenching, excavation or boring within the TPZ shall be limited to activities approved by the architect and/or attending Arborist. Explore alternatives for trenching outside the root zone. Avoid exposing roots during hot, dry weather. Backfill trenches as soon as possible with soil and soak with water the same day. Small roots can die in 10 to 15 minutes and large roots may not survive an hour of exposure. If the trench must be left open all roots must be kept moist by wrapping them in peat moss and burlap.

i. Root Severance

Roots of any size requiring cutting should be assessed and documented by the attending Arborist according to the type of root, diameter, distance from trunk, and percentage of root base. Tunneling under roots is the approved alternative. Prior to excavation for foundation/footing/walls, or grading or trenching within the TPZ, roots shall be severed cleanly outside the TPZ to the depth of the planned excavation. When roots must be cut, they shall be cut cleanly with a sharp saw to sound wood and flush with the trench site.



Figure 9: Tunneling under roots.

ii. Excavation

Any approved excavation, demolition, or extraction of material shall be performed with equipment that is placed outside the TPZ. Hand digging, hydraulic, or pneumatic excavation (e.g. air spading) are permitted methods for excavation within the TPZ.



Figure 10: Root exploratory works using an air spade. Air spading avoids damage of structural and even feeder roots of the tree.

iii. Heavy Equipment

Use of backhoes, Ditch-Witches, steel tread tractors or other heavy vehicles within the TPZ is prohibited unless approved by the attending Arborist. If allowed, a protective root buffer is required.

2.5 Tree Care

In the course of construction, the following measures may be necessary to reduce the effects of construction stress on protected trees. Quantum, duration and extent to be advised by attending arborist.

(A) Fertilization

Records of fertilization should be kept. The records should include details such as the type and date of fertilization. Application of chemicals (e.g., chemical fertilizers) should be avoided. If necessary, approval from the Board should be sought.

A1 Vertical trenches and Nutrient Sinks

Create vertical trenching and nutrient sinks. These nutrient sinks should go down to at least 300mm deep and should be filled with high grade compost and 12% Humic acid (dilution 1:100). These sinks will act to reduce construction stress by conditioning the soil, increasing soil microbiological activity and increasing organic matter. At least 24 numbers of vertical trenches / nutrient sinks are required for trees greater than 2m in girth. Vertical trenches for trees under 2m in girth will be determined empirically by the attending arborist and will take into account site conditions, tree species and its pre construction vigor. Top up nutrient sinks every 3 months.

A2 Soil Injection of Biostimulants

Mandatory if TPZ has been infringed into, soil compaction has occurred, tree condition has observed to have declined (indicators: reduction in Live crown ratios, twig die back at canopy and change in leaf colour/size/density)

- **Purpose:** To de-compact soil using a hydraulic pressurized delivery of biostimulants that both hydrates and aerates at the same time. Aim to reduce compaction to less than 400psi in the first 500mm of the soil.
- Mixed bio stimulants – serves 2 functions
 - Decompaction**
- Humic acid – as soil conditioner and chelating agent (Nutrients are mobilized in forms that the plants can accept), facilitate release of nutrients and reduces leaching. Also improves water holding capacities of soil.

- Liquid gypsum / Dolomite – soil conditioner, improve soil structure and facilitate release of nutrients in clay soils typical of local conditions.

To feed and increase soil microbiology to increase tree vigor post damage. Soil microbiology helps nutrient uptake and encourages healthy root growth critical to prevent construction stress.

- Mollases – High CE for immediate uptake,
- Fish Kelp – Protein source. Organic fertilisers
- Slow release fertilizers (Osmocote)

(B) Watering

- Water supplement during periods of drought.
- Watering duration and extent depends on site conditions and species.
- Watering is carried out until first signs of inundation are observed (i.e. water infiltration observe to slow down significantly).

(C) Myconate treatment

- To trigger and stimulate growth of existing mycorrhizae.

(D) Pesticide treatment

- To control pest (e.g. termites, borers, caterpillars etc) when it occurs.
- Fungicide or bactericide as required or as determined by attending arborist to control microbe pathogens.

(E) Crown cleaning

To be carried out in consultation with the attending Arborist. Trees are living things and may require some form of pruning during the course of the development.

- Crown cleansing- Prune to remove dead branches that may have developed through time.
- Crown lifting- Prune to lift crown to avoid new amenities.
- Crown thinning- Prune to reduce canopy branches and loading.

Structural pruning (including crown reduction) to remove branches that may obstruct new amenities and/or movement of critically necessary equipment may require the planning and standing supervision of the attending arborist.

2.6 Engaging Arboriculture Contractors

All arboriculture works should be carried out by skilled and trained arboriculture teams. As such, it is preferred that only Arboriculture contractors which have at least 8 years working experience and must show previous work experience in developments of similar size or complexity. Arboriculture contractors should meet NParks safety requirements for work at height, LTA's requirements for temporary works along roadsides (where necessary) and have a certified arborist to supervise the pruning/felling/planting works.

All arboriculture workers engaged in tree climbing and chainsaw work shall possess a valid basic tree climbing certification base upon demonstrated competence in the WSQ module conducted by CUGE or an equivalent WSQ approved training organization.

Each Arboriculture crew shall possess the following VALID competences:

- Operation of chainsaw for ground work (LS-MT-103E-1)
- Chainsaw safety and maintenance (LS-MT-102E-1)
- Perform formative pruning of young trees (LS-MT-114E-1)
- Provide Arboriculture support on site (LS-MT-116E-1)
- Workplace safety and health – operators (ES-WSH-101G-1)
- Respond to Emergency (LS-HM-208E-1)
- Perform advance rigging and climbing techniques (LS-HM-308S-1)
- Perform aerial tree access and aerial rescue skills (LS-HM-204S-1)
- Implement and apply appropriate risk and safety management to sector practices (LS-BP-301S-1)
- Prepare risk assessment report (LS-HM-406S-1)
- Operate and work from an elevated work platform (CUGE-ARB-3501)

POST-CONSTRUCTION

3. Soft Landscaping

Ground works, site preparation and implementation of all landscaping near protected trees must be undertaken carefully.

TPZ barriers can only be removed at this juncture for the purpose. However, when working near trees, cultivation of soils in these areas must be cautiously handled using hand tools. Planting of shrubs shall be at a distance of at least 300mm away from existing root collar.

Avoid changes to ground levels or unnecessary compaction of soils within proximity to existing trees during the course.



Figure 10: New plantings at a minimum distance of 300mm (all round) from root collar

ANNEX A

VERIFICATION OF TREE PROTECTION CHECKLIST

Note: The project contractor or construction supervisor shall verify in writing that all **preconstruction** tree preservation conditions have been met as follows:

Submitted by: _____

Company/Project: _____

Date/Time: _____

S/N	Action	Checked (<input type="checkbox"/>)	Remarks
1	Installation of tree fencing around identified trees within/near site (hard material at 1.8m tall)		
2	Tree protection zone (TPZ) dimensions meets specifications (from NParks and/or attending arborist)		
3	Warning signs prominently displayed on all sides of the fencing, including designated tree number		
4	Removal of construction material (ie machinery, debris, tools etc) within TPZ		
5	Mulching of high grade compost of 100mm thick around identified trees		
6	Completion of tree pruning (if necessary) under the supervision/written approval with the attending arborist		
7	Establishment of a tree maintenance schedule according to arborist recommendations (to be submitted to attending arborist)		
8	Documentation of trees removed and retained, including the species, height, and girth		

Verified by (attending arborist): _____

Date/Time: _____

Annex B

Tree Transplanting Requirements

1. Tree Transplanting Requirements

1.1 Overview

- a) The secondary forested area around the forested site at Bukit Batok will be the site of the new developments for nature parks. To preserve some of the more valuable mature trees on site, transplanting of suitable mature trees will be carried out. These trees are to be replanted within the site immediately.
- b) The Contract is effected on a firm price basis and the Lump Sum fee as accepted by the Employer shall remain firm for the duration of the Contract. Save as otherwise expressly provided in the Contract, there shall be no change in the amount payable by the Employer to the Contractor for the completion of the Works.
- c) The Contractor shall meet the following criteria to qualify for the Contract and provide information to supplement the following: Completed full crown transplanting projects of trees with more than 1 m girth in the past 3 years.

1.2 Scope of Works

The scope of works to be performed by the Contractor shall cover the following aspects:

- a) Provide an Inception Study: The Contractor shall complete the Inception Report, verifying arborist's tree survey (specs, conservation status) and master plan, identifying all trees to be transplanted and appropriate means of access/egress for the transplanting;
- b) Transplant existing trees for relocation using proper tree protection methods with sensitive care to the surrounding area. This includes providing necessary guying supports. Location of transplanted trees will be provided by the Client;
- c) Prepare the receiving site beforehand, ensuring trees will be transplanted effectively;
- d) Provide Resident Arborist to supervise the works and ensure proper handling of the trees;
- e) Carry out maintenance works after transplanting to ensure healthy growth of trees;
- f) Daily maintenance of transplanted trees, including regular watering of the trees;
- g) Monthly submission commencing from the date of transplanting, describing work progress and tree health, and work schedule for the following month; and
- h) At the end of establishment period (3 months), three complete sets of photographs of all plant material, reporting on the health status of the harvested/ transplanted trees. All photographs shall be labelled and representative of the plant materials specified.

1.3 Submission Material

- a) The Contractor shall submit samples of each of the following type of materials to be approved except where specified otherwise:
 - i. Materials for planting mixtures;
 - ii. Materials for staking, guying, and wrapping; and
 - iii. Fertilizers/supplements

1.4 Provision of Employer's Witness

The Contractor shall make provisions for Employer, SO's witnessing in relation to the harvesting of saplings and trees, setting up of the nursery, the planting process, during the duration of nursery care and the collection of plant materials by the Main Contractor from the project nursery. All costs and expenses incurred for such provisions as specified herein in this Contract are deemed to have been included in the Lump Sum price.

1.5 Site Conditions and Constraints

- a) The Contractor shall carry out the planting works systematically to minimize interference and inconvenience to the public and other contractors/parties working in the Site. He shall plan the schedule and sequence of work well in advance and obtain approval from the SO on the proposed schedule and sequence of work before commencement of planting works. The Contractor is deemed to have made due allowance for the constraints in his proposal and any claim arising from this will not be entertained.
- b) The Contractor shall be deemed to have visited the site and satisfied himself on and make provision in his "Lump Sum" for:
 - i. All aspects of local conditions, physical or otherwise that pertains to or affects in any way his provision of specialist consultancy services in this Contract at the site;
 - ii. The compliance to the Board's requirements for personnel working in the Central Catchment Nature Reserve;
 - iii. Compliance to the Environmental Specification.
- c) No claim by the Contractor for additional payment will be allowed on the ground of any misunderstanding or misinterpretation in respect of any such matter nor shall the Contractor be released from any risks or obligations imposed on or undertaken by him under the Contract on any such ground or on the grounds that he did not or could not foresee any matter which might affect or have affected the execution of the work.

1.6 Time for Completion

- a) The time for completion of all necessary tree transplanting works is pegged to the timeline for completion of the Main Contract. The Contractor shall ensure timely completion of transplanting works.

- b) The Contractor is to note the Bird Breeding Season (March – July each year), during which no transplanting works are to be carried out.

2. DETAILED METHODOLOGY

2.1 Detailed Methodology – Inception Study

2.1.1 Harvesting Plant Material/ Tree Felling

The Contractor shall refine the work plan and secure the necessary permissions to undertake any surveys / collections that may be required, including but not necessarily limited to:

- a) Preparation of detailed field survey / collection plan, including securing survey permissions from the Board – this includes detailed list of trees to be transplanted and felled, with scientific name, girth size, tree height and crown spread;
- b) Safety assessment for all components of work and in particular field surveys / collections in compliance with the requirements of the Singapore Workplace Safety & Health (WSH) Act;
- c) Refinement of the survey / collection plan;
- d) Refinement of the work plan.

2.1.2 Receiving Site

The Contractor shall outline proposed works and schedule at the receiving site so that the trenches are prepared for immediate reception of the transplanted trees.

2.1.3 Pre-growing Nursery

The Contractor shall set up pre-grow nursery in consultation with the Client, the Landscape Architects, Client's Flora Specialist, and Client's Arborist. Pre-grow nursery set up shall include electrical, water supply, sheltered and be able to achieve at least 85% humidity and be of sufficient size to hold the amount of saplings and trees harvested.

2.1.4 Data Provided to Contractor

The following data will be provided to the Contractor:

- a) Existing Tree Survey in CAD format (includes trees to be harvested)
- b) Topography Survey Plan in CAD format
- c) Proposed locations where trees are to be transplanted in CAD format.

The Contractor shall review the data and assure themselves of the suitability, quality, and coverage of the information with respect to the reliable execution of the present study. Based on the information, data and results obtained from this Inception Study and surveys / collections carried out, the Contractor shall establish the following:

- a) The suitability of the species specified in the Contract.
- b) Planting Requirements: The Contractor will put forward proposed planting requirements that would facilitate the survivability and healthy growth trees. This would include but not limited to spacing requirements, spacing made to accommodate growth, etc.

2.1.5 Submission

The Contractor shall submit the Inception Study within 4 weeks of the Commencement of the Contract.

2.2 Detailed Methodology – Preparation for Transplanting

The Contractor shall observe the following guidelines:

- a) Method statement and transplanting/harvesting schedule to be submitted at least 2 weeks prior to commencement of any transplanting work. Transplanting/harvesting to proceed only upon approval of method statement by SO.
- b) Document (with photographs) condition of tree before and after transplanting/harvesting.
- c) Operations shall be planned and coordinated so that the amount of time that the tree spends in any position other than standing upright with its roots in the ground shall be kept to a minimum.
- d) Contractor shall ensure that appropriate equipment, machinery, and manpower resources are deployed for the adequate execution of the transplanting works.

2.2.1 Pre-Grow Nursery

The Contractor shall set up nursery to pre-grow saplings and transplants:

- a) Nursery should be of sufficient size to hold all harvested saplings and where necessary transplants.
- b) Infrastructure of nursery should include, electricity, water supply (sprinkler system if necessary) and needs to be FULLY enclosed to maintain humidity. Netting should be specified to reduce Photosynthetic Active Radiation (PAR) levels to the required levels to reduce exposure.
- c) Environmental conditions within nursery including temperature (28-29 degree C), humidity (>85%) and Photosynthetic Active Radiation (PAR) should be monitoring daily to ensure they are at agreed levels.
- d) Contractor will propose maintenance regime to include methods and materials to be used and upon approval, carry out the maintenance as agreed.

2.2.2 Receiving Site

The Contractor shall observe the following guidelines:

- a) Prior to receiving the trees, identified sites shall be prepared by the Contractor. Contractor shall check receiving site for waterlogging conditions. If necessary, subsoil drainage should be formulated in consultation with the attending arborist and Landscape Architect.
- b) Contractor to measure temperature, humidity, and Photosynthetic Active Radiation (PAR) levels of receiving site and compare it to the extraction site to ensure that trees will be transplanted to an area of similar conditions to reduce transplant shock.
- c) Planting should be carried out to species suitability e.g., shade tolerant species will be planted in shaded areas and vice versa.
- d) Site preparation includes digging of trench to receive rootball. Planting holes shall be excavated to dimensions required by the transplant and in consultation with the attending arborist. On completion of excavation, the

Contractor shall remove from site all excavated materials, debris, etc. No extra payment will be made for any other types of materials encountered during excavation.

- e) Glazed vertical surfaces on the sides of the tree pits shall be forked to loosen the soil prior to backfilling.
- f) Should a hole be left unfilled with the planting media overnight, the Contractor shall duly barricade the open planting hole and position clearly visible signage to ensure public safety.
- g) Soil excavated from receiving site shall be kept as backfill material. The Contractor shall observe the following guidelines:
 - i. Contractor shall identify storage location on-site for harvested soil.
 - ii. Protection shall be provided, achieved via an effective cover of non-toxic material. Topsoil should be kept moist.
- h) Contractor shall propose irrigation set-up and methodology, to be approved by SO before commencement of planting.

2.2.3 Transplanting Trees

- a) Transplanted tree specimens shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries. They will also be free from insect and/or disease infestation;
- b) Pruning: Tree specimens to be transplanted are to be first pruned to reduce undue stress to the tree. Pruning must be approved by attending Arborist. All injured, weak, interfering and poorly located branches are to be removed. Use clean, sharp tools. Make cuts smoothly with no tearing or ripping of the bark. Where possible, leave branches that are as long as possible to promote better form. Small twigs along the leader, main branches or trunk are to be retained to aid in preventing sunscald on smooth or thin barked trees;
- c) All tree trimming shall be approved by the SO prior to trimming if requested;
- d) Prepare ball of soil at roots to be removed with each tree. Unless otherwise directed by S.O., the representative size of root balls shall be as follows:

Tree Height (m)	Minimum Transplanted Root Ball Size (m)
<2.0	In consultation with attending arborist
2.0 – 4.0	0.8 dia or in consultation with attending arborist
4.0 – 6.0	1.2 dia
>6.0	1.5 dia

- e) For trees >4m in height: Trenching / Digging: Determine if pre-plant trenching is required for each specimen. Preparation of in-ground trees shall be by root pruning to the stated rootball dimensions. Trenching

around the outer edge of the rootball using a sharp spade shall be done in 2 separate stages and halves, with one half of the tree roots being cut and backfilled each week, the next half the following week, with all of the ball being cut in 2 weeks. If roots over 25mm are encountered these are to be cleanly cut with large secateurs or pruning saw. Biostimulant application should be carried out during this period to enhance feeder root growth and cut sections of roots should be applied with mycorrhizae.

The trench, which shall be at least 500 mm wide shall be dug to the full specified depth of the root ball and undercut at the end of the root-pruning exercise to sever base roots. The tree is then to be allowed to settle for one week (or less in consultation with attending arborist) before final wrapping with protection and lifting. The root ball is to be well watered during this period;

- f) For saplings or trees under 4 m, root ball sizes are determined in consultation with attending arborist. Once extracted, root balls should be enclosed by polythene wraps to prevent excessive desiccation and reduce transplant shock. Where required, leaves should be wrapped also;
- g) Trenching should not be attempted unless the soil is moist. If the soil is dry, it should be thoroughly watered at least a day before trenching and digging operations commence;
- h) There shall be sufficient support installed prior to trenching of the root ball and immediately after planting to ensure that the tree does not move;
- i) Backfill – ASM to follow requirements stated in the Soil Specification;
- j) Root zone to be mulched with chipped leaf litter at least 100 cm thick and watered down;
- k) Biostimulant mix application should be carried out twice every week (during the generation of the root ball) prior to the actual transplant. Biostimulant mix should include humic acid, high EC molasses, fish kelp and mycorrhizae application. Contractor to submit biostimulant application proposed to be applied, including dilution factor and volume for the various size of trees expected to be transplanted;
- l) When directed, the Contractor shall submit a report from the AVA certifying the soil to be pest free and of acceptable nutrient contents;
- m) Plants to be transported or moved are to be thoroughly wrapped and protected prior to transporting. Rootballs to be wrapped and tied with Polythene bags (preferred), Gunny sack or Hessian sacking. Exposed trunks are to be wrapped in rice straw including the lower parts of the branch system and the upper branch system, especially if well furnished with leaves and twigs during transport. Damaged plant material will automatically be rejected on arrival at site;
- n) Tree shall be planted such that top of root ball is about 5 cm above ground level;

- o) Transplanted trees to be watered daily, and biostimulant mix and mycorrhizae applied and monitored for signs of transplant shock. Watering frequency to increase in case of dry weather (generally, 2 days without rain). Thinning of trees to reduce transpiration to give a 50% cover is permissible providing due notification is given than thinning is required to ensure that the trees can be inspected before thinning work is done. Bare crowned trees will not be permitted.
- p) Any deviation from the above specifications, method statement or transplanting schedule is to be approved by a representative of the Employer.
- q) The contractor is responsible for obtaining any permits or auxiliary services that may be required for the work to be carried out.
- r) The Contractor shall note that planting shall not take place in very hot and/ or dry weather conditions (i.e., during drought conditions (1 week without rain) or when temperatures exceed 34 degrees Celsius), which may result in drying out of root systems and scorching of leaves. Planting should take place in moist or over-cast conditions where possible (early morning).
- s) Contractor shall furnish method statement to show how weight of transplant is calculated and therefore deploy adequate machinery to carry out the lift for the transplant.

Below is a table of extraction methods according to tree girth. The Contractor shall consider this AND his calculated weight of transplant in his proposal.

Girth Size	Extraction
<0.3m	Manual labour
0.3 – 1.5m	Heavy machinery or mobile crane up to 200 tonnes
>1.5m	Large/Mobile crane (up to 500 tonnes)



Transplants: Determining root ball size, shaping root balls, protection with polythene wrap to prevent excessive desiccation and anchoring trees prior to transplant.



Transplants: Securing root ball and lifting of intact root balls for transport of transplant.



Small saplings extracted manually and wrapped completely to reduce desiccation lost and transplant



Mandal

MANDAL PARK DEVELOPMENT: SERVICES DIVERSION WORKS ALONG MANDAL LAKE ROAD, ECO LINK AND ALL ASSOCIATED ROAD WORKS ALONG MANDAL LAKE ROAD

Ref No: MPDM/RS/ENV/090/TF00
 Date: 21/12/2017
 Subject: Handing over of Harvested Seedling Plans
 Source Site: Mandal Lake Road-Stage 1A
 Receiving Site: 650 Link Cha Kang Road, Landscape Engineering & Plant Nursery

Plant Inventory List	Plant ID	Plant Species	Height (m)	Remark
1	01011	Acacia mangium	1.5	
2	01012	Acacia mangium	1.5	
3	01013	Acacia mangium	1.5	
4	01014	Acacia mangium	1.5	
5	01015	Acacia mangium	1.5	
6	01016	Acacia mangium	1.5	
7	01017	Acacia mangium	1.5	
8	01018	Acacia mangium	1.5	
9	01019	Acacia mangium	1.5	
10	01020	Acacia mangium	1.5	
11	01021	Acacia mangium	1.5	
12	01022	Acacia mangium	1.5	
13	01023	Acacia mangium	1.5	
14	01024	Acacia mangium	1.5	
15	01025	Acacia mangium	1.5	
16				
17				
18				
19				
20				
21				
22				

Hand Over: _____ Received By: _____

Example inventory list generated during the harvesting event



Saplings should be transported covered. Exposure to sun will increase mortality rates

2.3 Detailed Methodology – Tree Protection Plans

2.3.1 Individual Trees Near Work Areas

- a) For existing trees to be retained, the Contractor shall ensure that his site access and machinery does not encroach into the tree protection zone (TPZ).
- b) Tree protection zone (TPZ) to extend to dripline of tree or 5x diameter of trunk measured at 1.4 m height, whichever is greater. The actual TPZ dimensions should be determined and documented by the attending Arborist.
- c) No equipment or materials of any kind shall be placed within the TPZ.
- d) Spillage of any materials into the TPZ shall be reported to the SO cleaned up immediately.
- e) General guidance for tree protection zones is detailed in the table below. Tree protection zones (TPZ) for fig trees and trees with a critically endangered status will be prescribed individually on a case-to-case basis. Where trees have defects, have low physiological vigor or if species is exotic and invasive, no TPZ will be recommended. Tree Girth (m) Recommended Tree Protection Zones. Fig trees and trees with critically endangered status will be prescribed individually on a case-by-case basis.

Tree Girth (m)	Recommended Tree Protection Zones
<0.5m	1m Radius
>0.5m but less than 1m	2m Radius
>1m but less than 1.5m	3m Radius
>1.5m but less than 2m	4m Radius
>2m	5m Radius
Fig trees and Trees with critically endangered status	Prescribed individually on a case by case basis

- f) Where clusters of trees are shown to be protected, brushwood etc. shall be cleared by hand completely from within the cluster to a line of 3m from the trunks of the outer trees in the cluster, to be removed to clearance areas.

During these operations no cutting of (or damage to) barks, roots, or branches of trees to be protected shall occur and no soil is to be cut away from around the roots within the cleared area. After clearance, a protective fence shall be erected around each tree, or cluster of trees. The position of the fence shall be:

* individual trees, in a line of 5,000mm from the trunk all around the tree

* cluster of trees, in a line of 5,000mm from the trunks of the outer trees.

- g) Rectification and Repair of Damaged Woodland: The Contractor shall notify the SO if trees meant to be retained are damaged immediately. Damage to areas of protected woodland is to be made good to the satisfaction of the SO and all costs of such work are to be fully borne by

the Contractor, including all work necessary for new trees, earthworks, supervision, and administration costs.

- h) If any aspects of the Works or the working areas become severely hampered by the fenced areas and the Contractor considers that the fence lines must be altered, the Contractor shall not move any fence, or dig soil out around the base of the fence without written approval of the SO, who shall be given 48 hours' notice of the request to move the fence, in order that time is allowed for inspection and the issuance of any necessary instructions.
- i) The Contractor shall also refer to Annex A: Tree Protection and Conservation Guidelines.

2.4 Detailed Methodology – Protection and Maintenance of Plants After Transplanting

- a) The Contractor shall provide documentation of trees, including photographs, shall be made before and after transplanting. Photographs should show intact root balls at the different stages, during generation of root ball, when tree is lifted and when tree is installed into the receiving site.
- b) The Contractor shall propose the type of protection and support required for the healthy growth of the trees for the Employer's consideration.
- c) The establishment period of three months shall commence upon final transplant of the last tree. However, once each tree has been transplanted, daily maintenance activities should begin.
- d) The Contractor shall submit before start of required maintenance period, the maintenance methodology describing the procedures for the maintenance of plants for the duration of the care. Inclusion of biostimulant and mycorrhizae application is considered compulsory.
- e) The Contractor shall provide daily maintenance by skilled employees. Maintenance shall begin immediately after the planting and continue for the duration of the care.
- f) The following reports shall be submitted:
 - i. During the establishment period, monthly submission commencing from the date of transplanting, describing work progress and tree health, and work schedule for the following month.
 - ii. At the end of establishment period (3 months), three complete sets of photographs of all plant material, reporting on the health status of the harvested/ transplanted trees. All photographs shall be labelled and representative of the plant materials specified.
- g) Handover: A joint inspection with the SO shall be carried out at the end of the establishment period, trees will be deemed to be in satisfactory condition before they are handed over.
- h) The SO reserves the rights to inspect further for size and condition of root balls, root development, pests, disease, injuries, and defects, etc. and to reject unsatisfactory or defective material at any time during the duration of the Contract. The Contractor

shall remove and replace rejected plant materials immediately from the approved sources. All costs for the replacement of tree shall be borne by the Contractor.

2.5 Detailed Methodology – Tree Removal

- a) Tree felling may only take place when and where directed by the SO and be carried out in accordance with landscape arboriculture practice and safety standards. Only directional felling methods with a hinge and back cut shall be deployed. Trees SHALL NOT be felled by pushing over with heavy machinery.
- b) Method statement and Risk Assessment shall be submitted to the attending arborist for review prior to work start.
- c) Where stump removal is required, the tree shall be cut above ground level in order to allow adequate purchase for pulling. Where stump removal is not required, the tree is to be cut flush with the ground.
- d) Trees to be felled shall be cut to fall away from protected trees and fences. Felled trees shall be cut up at the location of felling and removed from site carefully, avoiding damage to undergrowth, saplings, or new landscape areas. No burning on site of timber, leaves or brushwood will be allowed on site.
- e) The holes resulting from the grubbing up of the roots shall be backfilled with approved materials and consolidated in 300 mm layers.

3. DATA, MATERIAL AND FACILITIES PROVIDED

- a) The Employer will, upon request, provide the Contractor with available documents and data deemed relevant to the satisfactory completion of the works.
- b) All relevant data provided by the Employer for the Contract shall be checked, analysed, and verified by the Contractor for quality and its suitability, including converting them to the necessary format for use in this Contract.

4. WARRANTY

- a) While transplant entail a certain level of mortality, the Contractor must be able to demonstrate that the transplants were carried out on the best effort basis. This includes and is not limited to:
 - i. Extraction of a suitable size root ball for the size of the tree
 - ii. Ensuring the root ball is intact during the transplant and during installation into receiving site. Documentation is therefore critical.
 - iii. Providing adequate protection on the branches and main trunks where tie-ins are made.
 - iv. Deploying adequate and suitable machinery and equipment of work
 - v. Providing sufficient manpower for the works
 - vi. Ensuring adequate and timely post-transplant maintenance
 - vii. Ensuring sufficient communication.

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- b) Where transplant fail due to neglect or inadequacies on the part of the contractor, the contractor shall provide replacement plants at his expense or the cost of the transplants shall be recovered from the Contractor.

5. TENDER PROPOSAL

- a) The fullest possible detailed technical proposal shall be submitted by the Contractor together with his tender so that a comprehensive evaluation can be made:
- i. Proposed Project Organization including details of the manpower and resource allocation, strength, qualification, and experience. Curriculum Vitae shall be submitted for key staff in the proposed Project Organization;
 - ii. The proposed method statement for full crown transplant, including:
 - i. Methodology for pre-transplant checks and considerations,
 - ii. Methodology for estimating total weight of transplants and the machinery that will be deployed (Equipment List),
 - iii. Methodology for calculating root plate for transplant,
 - iv. Brief description of undercut methods,
 - v. Proposed subsoil anchorage system for transplants more than 1.5m in girth, and
 - vi. Proposed post-transplant maintenance program.
 - iii. Provide a detailed proposal based on the scope of works including the method of calculating weight of root ball, considerations for deploying of adequate size cranes for lifting of transplant, method of transporting and delivering of trees to project site and make suggestions and recommendations for the project. This includes a proposed schedule of works;
 - iv. Details of any other matters which the Contractor knows or has reason to believe will materially affect the execution of the works should also be given.

Appendix 3 Forms and Protocols

BUKIT BATOK NATURE CORRIDOR WILDLIFE INCIDENT FORM

Date (YYYY/MM/DD):	Time:
Description of Location:	GPS Coordinates:
Wildlife Observed:	Animal Condition: <input type="checkbox"/> Alive <input type="checkbox"/> Killed <input type="checkbox"/> Dead <input type="checkbox"/> Injured Animal Activity: <input type="checkbox"/> Moving <input type="checkbox"/> Resting <input type="checkbox"/> Trapped
Photographs Taken: <input type="checkbox"/> Yes <input type="checkbox"/> No	NParks Notified: <input type="checkbox"/> Yes <input type="checkbox"/> No Name of NParks Staff Notified: _____
Describe Incident (e.g., activities being carried out; what animal was doing; personnel involved):	
Actions Taken:	
Reported by: _____ Contact #: _____	Reported to: _____ Contact #: _____
Remarks:	