FOR PETROLEUM PROJECTS

ENVIRONMENTAL MANAGEMENT PLAN

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES
A. Construction Phase		
A.1 Site Development incl Generation of dust from site preparation	 Maintain a wet access road surface/project site by sprinkling of water at least twice (2x) a day during dry season Maintain sprinkling of water to access road at least twice (2x) a day during dry season 	100% no dust generation
Generation of spoils (including excavated soils)	 Re-use of spoils in the project site for covering of underground storage tanks Excess spoil materials will be hauled by third party hauler with approved permit/clearance from LGU Trucks shall be thoroughly washed before leaving from the project site to avoid the transfer of mud/dirt on the road 	100% no spoil materials will be left unattended and no mud/dirt will be transferred in the road
Potential siltation of nearby bodies of water due to soil erosion	 Provision of sediment control measures such as sediment traps, slope stabilization, etc. Provision of an easement from water bodies at least three (3) meters in urban areas, twenty (20) meters in agricultural areas, and forty (40) meters in forest areas in compliance to the Water Code of the Philippines 	100% no siltation of nearby bodies of water
Degradation of surface water quality due to contamination from domestic wastewater	 Provision of (indicate number) portalets for construction workers (if necessary) Note: at least one (1) portalet for 60 workers where the number of male workers exceeds 500 (as per IRR-Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991) Note: at least one (1) portalet for 25 workers where the number of male workers exceeds 100 (as per IRR-Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991) 	100% no discharge of domestic wastewater to nearby bodies of water
	 Provision of septic tank or wastewater collection system for workers Hauling of wastewater from portalets/ septic tank by third party contractor with licensed/permit 	

	from LGU and with valid Discharge Permit for wastewater treatment facility			
A.3 Construction of fuel storage facility				
Generation of noise from heavy equipment	 Use of mufflers and exhaust silencers for construction equipment Provision of appropriate noise mitigating measures (such as construction of fences, enclosure of stationary work areas and equipment, maintenance of equipment, etc.) whenever applicable 	100% Noise within standards		
Generation of construction debris	 Segregation and collection of construction debris in compliance to RA 9003 Hauling of construction debris by 3rd party hauler 	100% collected/hauled construction debris		
B. Operational Phase	on an ac of fo cilities			
B.1 Operation and mainted Contamination of		1000/		
surface water from domestic wastewater	Provision of adequate Wastewater Treatment Facility (Sewage Treatment Plant) to treat the collected wastewater, whichever is applicable:	100% conformance to effluent standards		
	 ☐ Hygienic septic tank (for 212 occupants or less – DILG MC 2019-62) with regular desludging by third party contractor (the contractor must have a valid discharge permit of its treatment facility) ☐ Wastewater treatment facility (for more than 212 occupants – DILG MC 2019-62) Note: For 98L per person per day 			
	water consumption; 80% will become wastewater – hence for 300 persons; at least 23.52 cubic meter per day WTF capacity shall be installed and operated			
Contamination of soil / groundwater due to accidental tank leak	 Provision of secondary tank containment Provision of spill protection, overfill protection, and corrosion protection Provision of sandbags 	100% no contamination of soil and groundwater		
Generation of fumes (VOCs)	Underground storage Tanks will be equipped with VOCs trap			
Generation of used oil (from motorpool/service bay) and other hazardous waste materials (busted lamps, used batteries, etc)	 Provision of centralized storage facility/area and collected by hazardous wastes DENR accredited 3rd party haulers/treaters. Hazardous waste generation ID shall be secured from EMB. Provision of Oil and water separator / trap 	100% compliant to RA 6969		

Generation of Solid Wastes	 Segregation of wastes and provision of waste storage facility Provision of a Materials Recovery Facility (MRF) Hauling of solid wastes by third party hauler with permit/clearance from LGU 	100% conformance to RA 9003
Degradation of air quality due to use of generator set and Underground Tank (UGT) (if any)	 Regular maintenance of the generator set Regular maintenance of the UGT Vent 	100% compliance to RA 8749
Generation of obnoxious or unpleasant odor	Provision of air-tight tank seal/cover	100% no tanks left uncovered
Generation of effluents due to wastewater generation	Monitoring of the following significant effluent quality parameters (based on PSIC Code 47300, 4661):	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021- 19)