

MUJUR LAGENDA SDN BHD

SPECIAL TERMS OF REFERENCE



SPECIAL ENVIRONMENTAL IMPACT ASSESSMENT

FOR

**PROPOSED SUBDIVISION OF CL.025370629, CL.025313080
(CL.025348627) & CL.025342563 (CL.025348636) FOR
TOURISM AND RECREATION RESORT DEVELOPMENT WITH
TOTAL 42.8 HECTARES ALONG JALAN PENGALAT LOK
KAWI, AT KAMPUNG SUOANGAN, KINARUT, PAPAR, SABAH**

REFERENCE NO : ENVSOLVE/04/01/A/431-1/22

DATE SUBMISSION : 28TH JANUARY 2022



1st Floor, No. 3, Lorong Kilang F, Kolombong,

88450 Kota Kinabalu, Sabah, Malaysia.

Tel: 088-388791 Fax: 088-388792

Email: envsolve@gmail.com

www.envsolve.com

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ABBREVIATIONS

AMSL	Above Mean Sea Level	Kg.	<i>Kampung</i>
CL	Country Lease	KK	Kota Kinabalu
COD	Chemical Oxygen Demand	KKIA	Kota Kinabalu International Airport
DID	Department of Irrigation and Drainage (<i>Jabatan Pengaliran dan Saliran</i>)	N	North
DOE	Department of Environment (<i>Jabatan Alam Sekitar</i>)	NE	Northeast
E	East	NW	Northwest
EIA	Environmental Impact Assessment	PM ₁₀	Particulate matter 10 micrometers or less in diameter
EPD	Environment Protection Department	PPE	Personal Protective Equipment
ESCP	Erosion and Sediment Control Plan	S	South
FCC	Faecal Coliform Count	SAR	Sekolah Agama Rakyat
GPS	Global Positioning System	SE	Southeast
i.e.	<i>id est</i> (that is)	Sg.	Sungai
Jln.	<i>Jalan</i>	SK	Sekolah Kebangsaan
JPBW	Jabatan Perancang Bandar dan Wilayah	SMK	Sekolah Menengah Kebangsaan
JTU	<i>Jabatan Tanah dan Ukur</i> (Land and Survey Department)	SMP	Shoreline Management Plan
		SW	Southwest
		Tg.	<i>Tanjung</i>
		TOL	Temporary Occupational Lease
		TOR	Terms of Reference
		W	West

SYMBOLS AND UNITS

°	degree	cm	centimetre
°C	degree Celsius	dB (A)	decibel (A)
µg/l	microgram per liter	ha	hectare
µg/m ³	microgram per cubic meter	km	kilometre
cfu	colony forming unit	m	meter

1 INTRODUCTION

1.1 Background

This Special Terms of Reference (S-TOR) is prepared to document the written framework for the preparation of a Special Environmental Impact Assessment (S-EIA) for the “**Proposed Subdivision of CL.025370629, CL.025313080 (CL.025348627) & CL.025342563 (CL.025348636) for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah**”.

This S-TOR documents the requirements for the Special Environmental Impact Assessment (S-EIA) study and the framework for the preparation of the EIA report in accordance with the guidelines prescribed by EPD.

1.2 Project Proponent

MUJUR LAGENDA SDN. BHD.

Blok G-40-3A,
Signature Office, KK Times Square,
88100 Kota Kinabalu, Sabah.
Tel/Fax: 088 – 277 824
Contact Person: **Mr. Vincent Liau**

1.3 Project Architect

ARKITEK BILLINGS LEONG & TAN SDN. BHD.

Lot J-57-3,
Signature Office, KK Times Square,
88100 Kota Kinabalu, Sabah.
Tel: 088 – 486 701 Fax: 088 – 486 705/ 706
Contact Person: **Ar. Jeremy Lo**

1.4 Civil and Structural Engineering Consultant

PY KONSEP PERUNDING SDN. BHD.

Lot 15 &16, 1st Floor,
Block C, Iramanis Centre,
88450 Kota Kinabalu, Sabah.
Tel: 088 – 381 888 Fax: 088 – 381 833
Contact Person: **Ir. Tan Kok Jyh**

1.5 Coastal and Marine Consultant

DHI WATER & ENVIRONMENT (M) SDN BHD

11th Floor, Wisma Perindustrian,
Jalan Istiadat, Likas,
88400 Kota Kinabalu, Sabah.
Tel: 088 – 260 780 Fax: 088 – 260 781
Contact Person: **Dr. Claus Pedersen**

1.6 Environmental Consultant

Envsolve Sdn. Bhd., a registered environmental consultant, has been appointed by the Project Proponent to undertake this study. The consultant's correspondence details are as follows and the Certificate of EPD Registration are attached in **Annex 5.0**.

EPD Registration No.: F021
Registration Expiry Date: 7th August 2023
1st Floor, No.3, Lorong Kilang F, Kolombong,
88450 Kota Kinabalu, Sabah.
Tel: 088 – 388 791 Fax: 088 – 388 792
E-mail: envsolve@gmail.com
Contact Person: **Mdm. Lo Su Mui**

1.7 Statement of Need

The aim of the Project is to conduct a sea front development which will involve reclamation activity for the construction of an artificial island at Sabah west coast at Kinarut, Papar for the purpose of tourism and recreation resort development. The establishment of such development at the area is expected to have high potential to draw a lot of investors, as it is near the Kota Kinabalu International Airport (KKIA) as well as other tourist attractions. In addition to that, the proposed development is in line with the Government's effort to supply better facilities or infrastructure that can support economic expansion that benefits both the locals as well as non-locals. Furthermore, it would also offer direct and indirect employment opportunities resulting from the workforce demand for the Project, and through construction-related contracts as well as other business opportunities.

The following is the summary of the benefits of the development Project:

- Creation of a new iconic tourist destination in the district of Papar which has combined landscape park, water lagoons, as well as resort and hotel accommodation;
- Direct and indirect employment opportunities which result from workforce demand for the Project;
- Socio-economic spin-off through construction-related contracts and other business opportunities.

2 BACKGROUND INFORMATION

2.1 Project Location

The proposed Project site is located at Kinarut, Papar on three parcels i.e. one (1) parcel located at the coast/seawater i.e. CL.025370269 as main development site, and two (2) smaller parcels on land are i.e. CL. 025313080 and CL. 025342563 as shown in **Figure 2.1**. The Project site is found approximately 1.1 km southwest from the Kinarut Township, 6.7 km southwest from Putatan Township and 11.1 km south from the KKIA. Currently the two parcels on the land area are accessible via Jalan Pengalat Lok Kawi off Jalan Putatan. The northeast of the main development site or CL.025370269 is bordered by an existing reclaimed land owned by Sunduvon Sdn Bhd, who is also conducting EIA study for new reclamation extending seaward from their existing land.



Plate 2.1: Land based part of the Project site at the southwest



Plate 1.2: View of the Project main development site located at the coast

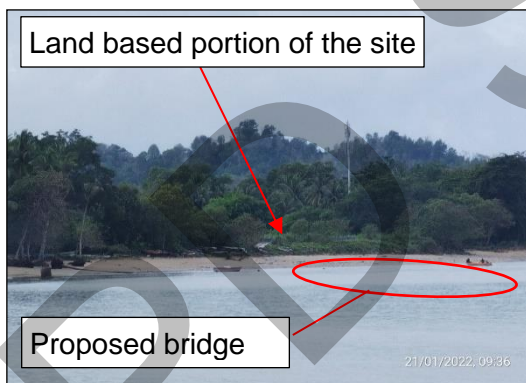
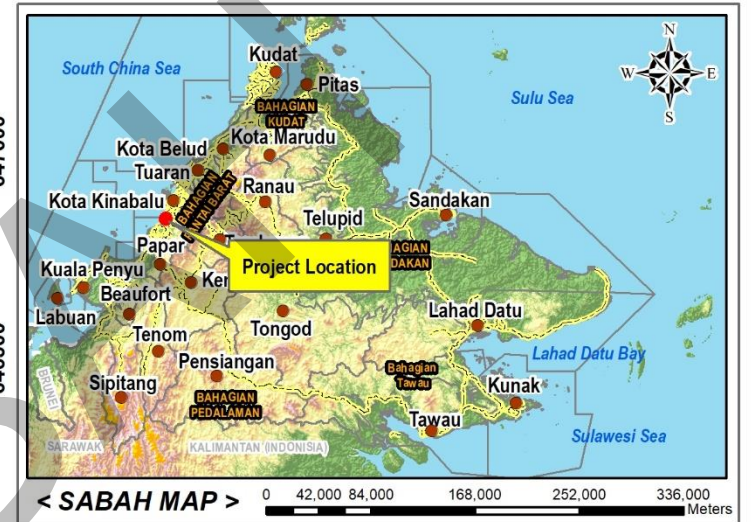
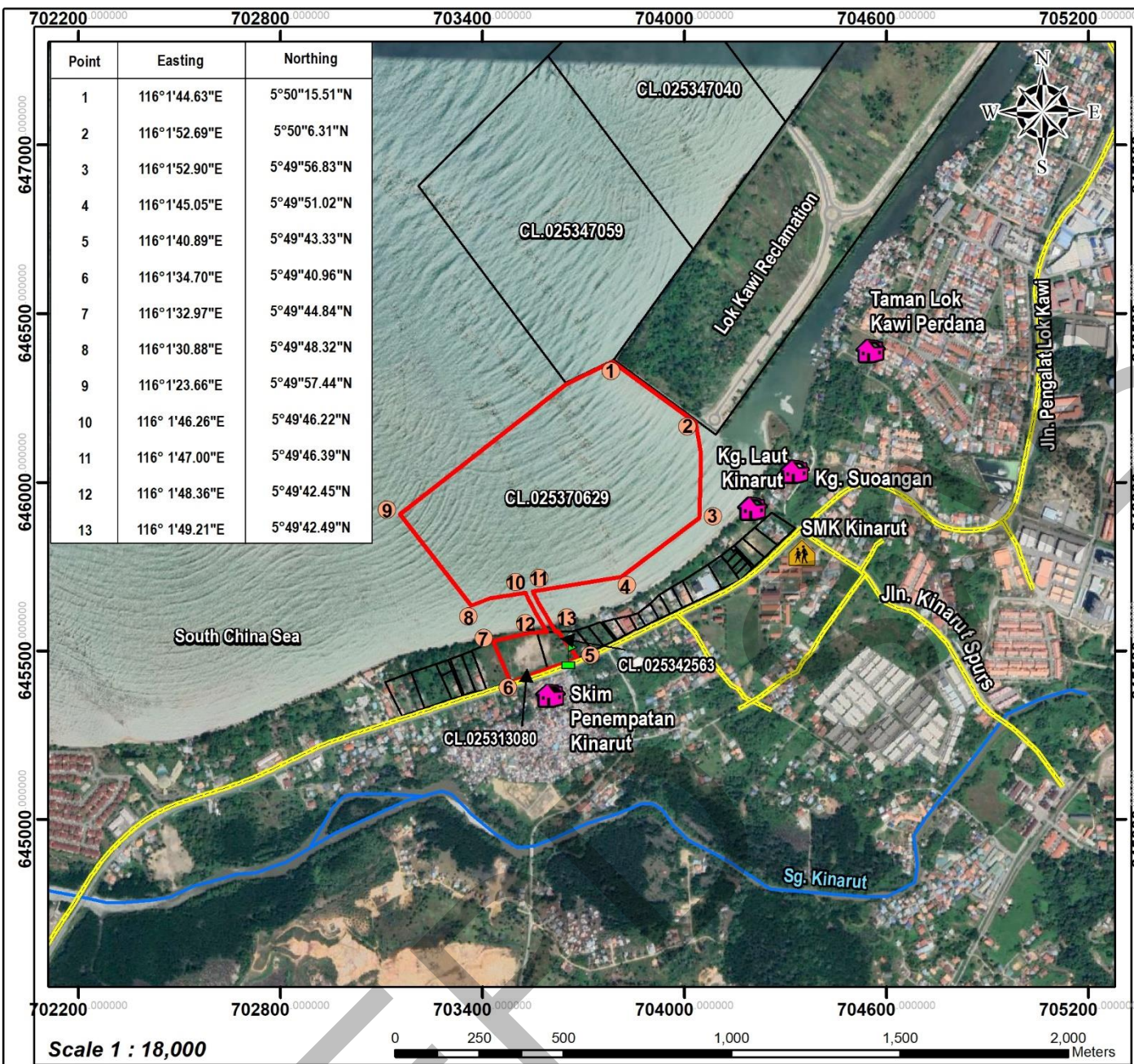


Plate 2.3: View of the proposed land-based part and bridge area



Plate 2.4: Access point to the 2 parcels on land off Jalan Pengalat Lok Kawi



Data Source : Google Earth Image
 : GPS Data on Site
 Coordinate System : Timbalai 1948 RSO Borneo (Meter)

Project Title
 Proposed Subdivision of CL.025370629, CL.025313080 (CL.025348627) & CL.025342563 (CL.025348636) for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah

Legend

- Project Boundary
- Cadastral Lot
- Road
- River/Stream
- Site Entrance
- Settlements
- School



Figure 2.1

Project Location

Project Proponent: Mujur Lagenda Sdn Bhd

Environmental Consultant: Envsolve Sdn Bhd

Reference Number: ENVS/04/01/A/431-1/22

Drawn By : Floyd

2.2 Project Concept

The proposed Project will be developed on three (3) pieces of land i.e., CL.025370269 (40.46 ha), CL.025313080 (1.53 ha) and CL.025342563 (0.81 ha), which total up to 42.8 ha. The proposed tourism and recreation resort development shall cover a length of approximately 0.87 km along the shoreline and extends 0.6 km offshore. There will be an approximately 80 – 250 m wide gap between the main development site at the coast and the land-based part, in which shall be connected via a proposed bridge of 138.80 m length. Refer to **Annex 1.1** for the Interim Development Plan. The Project components include residential and resort/ hotels with infrastructure and utilities as shown in **Table 2.1**.

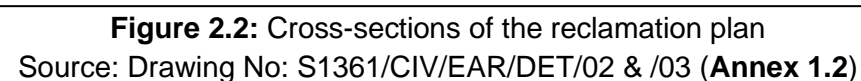
Main activities involved for this Project include platform preparation by reclamation, foundation, as well as bridge and building construction. The desired finished platform level of the area to be reclaimed is +2.5 m and +2.6 m AMSL (refer **Figure 2.2**). The estimated volume of the reclamation is approximately 1,395,507 m³. The details of the sandfill sources of reclamation material is under discussion stage and will be addressed in the S-EIA report.

Prior to the reclamation work, a 20 m width bund at the perimeter of the reclamation site shall be constructed and the placement of the fill material will be performed by bulldozers. Seawall consisting of armour rocks will be constructed upon completion of the reclamation works for permanent protection to minimize coastal erosion and sediment dispersion. The revetment structure with gradient of 1(vert):2(hori) is shown in **Figure 2.3**.

Reclamation work is expected to be completed within a two (2) year period (24 months), and as for the construction activities, it is estimated to take about five (5) years (60 months).

Table 2.1: Project Components

Components			Quantity
Main Development Site (Island)	Resort Hotel A	3-storey resort lobby	250 rooms
		5-storey resort hotel block	
	Resort Hotel B	5-storey resort hotel block	250 rooms
		2-storey resort podium block	
	Resort Villa	1-storey resort villa	48 units
		2-storey service podium	
	Hotel Suites Residence	18-storey resort residential block (Block D1)	108 units
		18-storey resort residential block (Block D2)	108 units
		18-storey resort residential block (Block D3)	108 units
		18-storey resort residential block (Block D4)	324
		18-storey resort residential block (Block D5)	108 units
	Business Hotel & Tourism Arcade	11-storey service hotel suites (E1)	250 rooms
		11-storey service hotel suites (E2)	250 rooms
		5-storey tourist arcades (E3)	
		5-storey tourist arcades (E4)	
	Utility	Utility/ Services/ M&E	
	Water Lagoon	Lagoon A	
		Lagoon B	
	Reserve	Drain	
		Road	
Land Based Portion	Utility	Utility/ Services/ M&E	
	Road Reserve	Road	
	Road Reserve	Road reserve (15 m JKR setback)	
Others	Bridge	138.80 m length of access road connecting main development site with land area	



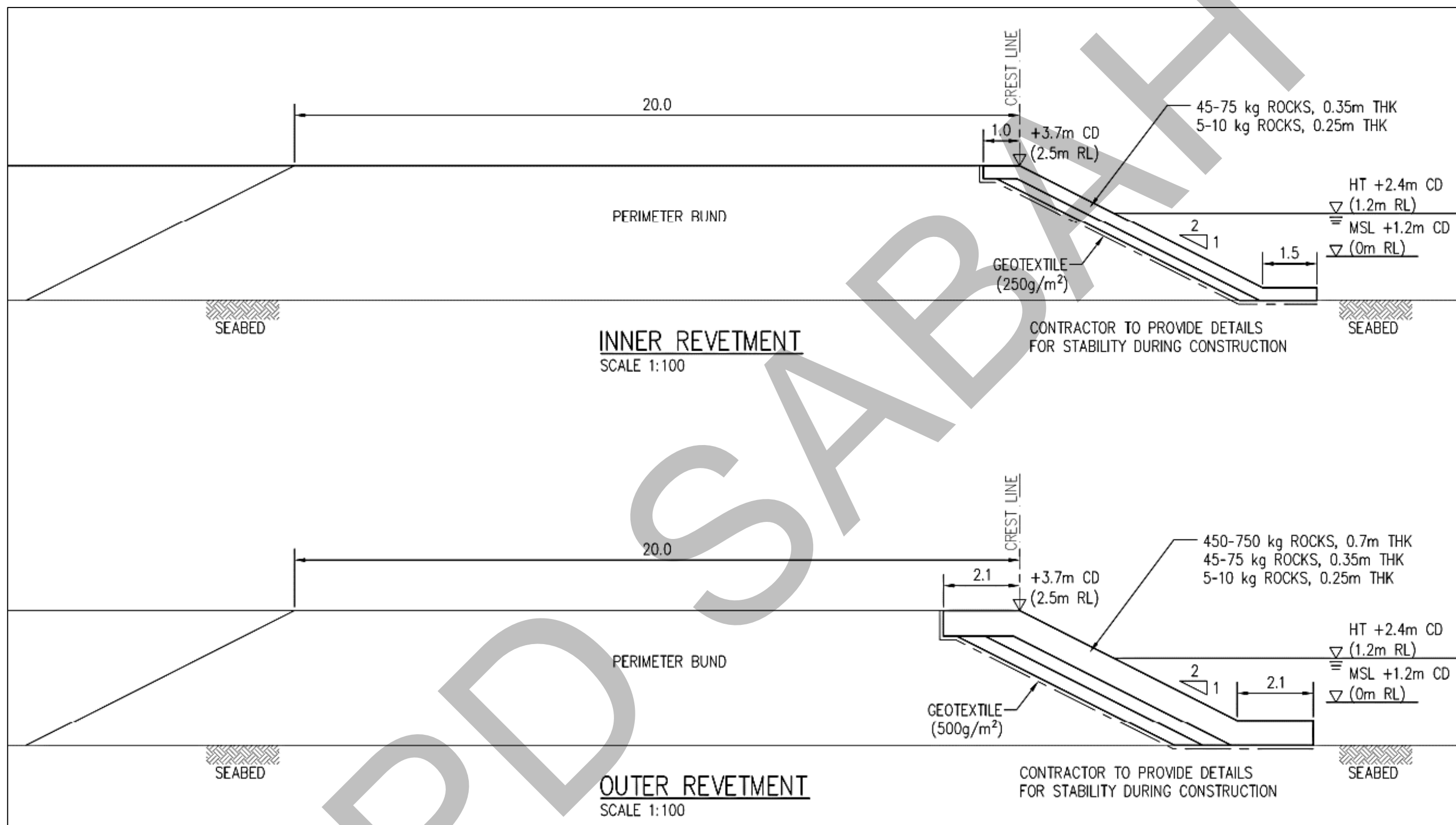


Figure 2.3: Schematic of the Revetment Cross-Section for the Proposed Development
Source: DHI Letter with ref. no: 62801567-LET-AAL-004 dated 14th January 2020 (**Annex 2.3**)

2.3 Environmental Requirement

The Project is categorized as the following prescribed activities under the Second Schedule of the Environment Protection Enactment (Prescribed Activities) (Environmental Impact Assessment) Order 2005.

Second Schedule

Item 5. Land Reclamation

Reclamation of land by the sea or along the riverbanks for development of housing, commercial or industrial estates, construction of major roads, or other public purposes.

Item 10. Resorts and Recreational Development

(i) Development of resorts, recreational or tourism facilities covering an area of 30 hectares or more.

Under the Enactment, an Environmental Impact Assessment (EIA) (under Second Schedules) is needed for submission and presentation to the Environment Protection Department (EPD) Sabah, for approval prior to Project implementation. S-EIA was required by EPD due to the sensitivity of the Project along the coastal area.

2.4 Project Status

Site condition

The Project site is still at its preliminary stage where no land clearing or any other development work i.e. reclamation works has yet initiated. However, most of the land-based part of the Project at CL.025313080 and CL.025342563 had been previously cleared, leaving limited vegetation within the area (**Plate 2.5**). A perimeter hoarding was also erected at the land-based part and a guard house at the entrance was established.



Plate 2.5: Current condition of the land-based Project site



Plate 2.6: Perimeter hoarding



Plate 2.7: Existing guard house at the land-based Project site

Engineering Drawings and Technical Studies

The Interim Development Plan had been conditionally approved by the Central Board (CB) on the 2nd April 2019 as well as confirmed by Jabatan Perancang Bandar dan Wilayah (JPBW) on the 9th July 2020. The Majlis Daerah Papar has also approved the extension for the approval validity for 2 years on the 15th December 2021.

Drainage Plan and MSMA report had been submitted and received comments from the Department of Irrigation and Drainage (DID) on the 16th July 2019 and is currently undergoing finalization processes to meet DID's requirement. Other drawings i.e. Earthwork Plan and ESCP have been prepared and are currently pending for submission.

In terms of technical studies i.e. Hydraulic Study (by DHI Water & Environment (M) Sdn Bhd) and Soil Investigation (by STL Geotechnical Engineering Sdn Bhd) had been prepared and shall be incorporated in the S-EIA report later. The Hydraulic Study Report had been approved by DID on the 21st January 2020 where the approval had renewed and valid for 2 years from 25th January 2022. Traffic Impact Assessment (TIA) is currently still on-going by Geo Traffic Engineering Sdn Bhd and shall be incorporated in the S-EIA report. Tabulated below are the summary of the current status of the submittals and approval from the relevant authorities and the correspondence letters are attached in **Annex 2.0**.

Table 2.2: Current Status of Submittals and Approvals

	Plan/Study	Status	Date	Annex
1.	Interim Development Plan	Conditional approval by CB	2 Apr 2019	2.1
		Conditional approval by JPBW	9 Jul 2020	
		Extension of Approval Validity by MDP	15 Dec 2021	
2.	Drainage Plan & MSMA	Commented by DID	16 Jul 2019	2.2
3.	Hydraulic Study	DHI Response to DID's Comments	14 Jan 2020	2.3
		Approved by DID	21 Jan 2020	
		Extension of Approval Validity by DID	25 Jan 2022	

2.5 Land and Zoning Status

Land Ownership

The proposed Project site will be developed within land parcels of CL.025370629 for the main development site and CL. 025313080 and CL. 025342563 for the land-based development. Land parcel for the main development site, CL.025370629 is owned by the Project Proponent, while the parcels for the land-based development are owned by Real Future Sdn. Bhd. (refer **Annex 3.1** for the land titles). Authorization from the current owner to the Proponent for the Project development had been obtained (see **Annex 3.2**).

Land Application

A Temporary Occupational Lease (TOL) and wayleave application shall be done for the proposed bridge which links the proposed main development site to the land-based portion. The application status with JTU will be updated in the S-EIA study.

Land Use Condition

Based on their respective land titles, the land use conditions of the land parcels of CL.025370629, CL. 025313080 and CL. 025342563 are designated for the purpose of Tourism and Recreation Resort, Beach Resort Hotel, as well as Executive Resort Club/ Hotel.

Zoning

Based on the letters and Kinarut Local Draft Plan from the Jabatan Perancang Bandar & Wilayah dated 19th August 2011 (**Annex 3.3**) and 9th July 2020 (**Annex 2.1**), the Project site is zoned as Park, Recreation and Tourism Area. Hence, the proposed Project development conforms well to this designated zone requirement.

Based on the Sabah Shoreline Management Plan (SMP) (2005) and Integrated Shoreline Management Plan (ISMP) (2012), the land-based portion of the Project (CL.025313080 and CL.025342563) falls under the Management Unit C5-11 (SMP) / C-12 (ISMP) both namely "Kinarut Beach" where the management strategy categorizes Standard Conditions: Low/ Medium Density Tourism".

No management objective and strategies were formulated on the main development parcel CL.025370629 that is subjected for the proposed reclamation. It is to note that the parcel sits beyond the southern tip of the MU C5-13 to 5-14 of SMP or MU C5-14 to 5-15 of ISMP known as the Lok Kawi Tourism Cluster in which its strategy categorizes Standard Conditions: High Density Tourism.

2.6 Project Activities

The main Project activities are summarized in below.

Table 2.3: Project Activities

Phases	Activities
Exploration and Site Investigation	<ul style="list-style-type: none"> • Site, topographical and bathymetric surveys • Site Investigation • Traffic planning • Hydraulic study • EIA study
Site Preparation and Reclamation	<ul style="list-style-type: none"> • Establishment of temporary occupation site • Establishment of site enclosure and erection of safety signs and Project signboard • Mobilization and transportation of required machineries, equipment, and tools. • Transportation of sandfill and construction materials. • Reclamation <ul style="list-style-type: none"> ○ Perimeter bund construction ○ Placement of fill material at site ○ Installation of revetment • Construction of erosion and sediment control structure and temporary drainage system
Construction	<ul style="list-style-type: none"> • Construction of bridge • Construction of onshore and land buildings • Installation of permanent drainage system • Establishment of infrastructure and utilities • Landscaping
Operational	<ul style="list-style-type: none"> • Operation of resort and recreational areas • Maintenance of drainage, road, infrastructure and utilities • Waste management
Abandonment	<ul style="list-style-type: none"> • Removal of equipment, machineries, and temporary structures • Site rehabilitation and waste disposal

3 DESCRIPTION OF THE EXISTING ENVIRONMENT

3.1 Physical Environment

3.1.1 Bathymetry

The nearshore bathymetry around the proposed Project site is shallow and scattered with low-laying reefs and rocky outcrops. The site is partly sheltered by Pulau Dinawan at the northwest, partly by the extensive presence of low-laying shallow reefs and mobile sand bars, and minorly by the area offshore of Tg. Dumpil at further North. Based on the Hydrographical Survey as attached in **Annex 1.3**, the bathymetry of the Project main development site varies from -0.59 m to approximately -2.00 RL.

3.1.2 Coastal Morphology

The coastline along the Kinarut Beach is characterised by sandy beaches, marred with unsightly rubbish scattered around (**Plate 3.1**). Past Lok Kawi land reclamation fully protected by revetments is found at the northeast of the Kinarut Beach, while the Kinarut River Estuary is located approximately 1.6 km southwest from the site. The Project area was seen to have suffered minor to moderate erosion. The beach is derived from sand due to the coastal protection works by the Palm Beach Villa complex reclamation at the west which blocked sediment supply from Sg. Kinarut, as well as due to the protruding past Lok Kawi land reclamation which traps sediments in the lee zone of the reclamation, which the small sand spit at the southern end of the reclamation reveal. This sand is not returned to the Kinarut Beach and consequently, Kinarut Beach has become isolated within the boundaries of the past Lok Kawi reclamation and the Palm Beach complex, and the coastal morphology is responding as per these changes. The water has poor visibility with light blue to brownish blue colours due to exposure to relatively high concentration of suspended sediments due to wave action.



Plate 3.1: View of the sandy beaches fronting the proposed site



Plate 3.2: View of the canal between the existing reclaimed land and water village of Kg. Pitoru from the existing sand spit at 0.22 km east

3.1.3 Hydrodynamic Conditions

Following are the brief description of the existing hydrodynamic conditions based on the completed and approved Hydraulic Study.

Current Conditions

Current speeds are generally low with high currents speeds occurring around the ebb tide. Around the proposed site, the current speed varies from 0.05 to 0.30 m/s.

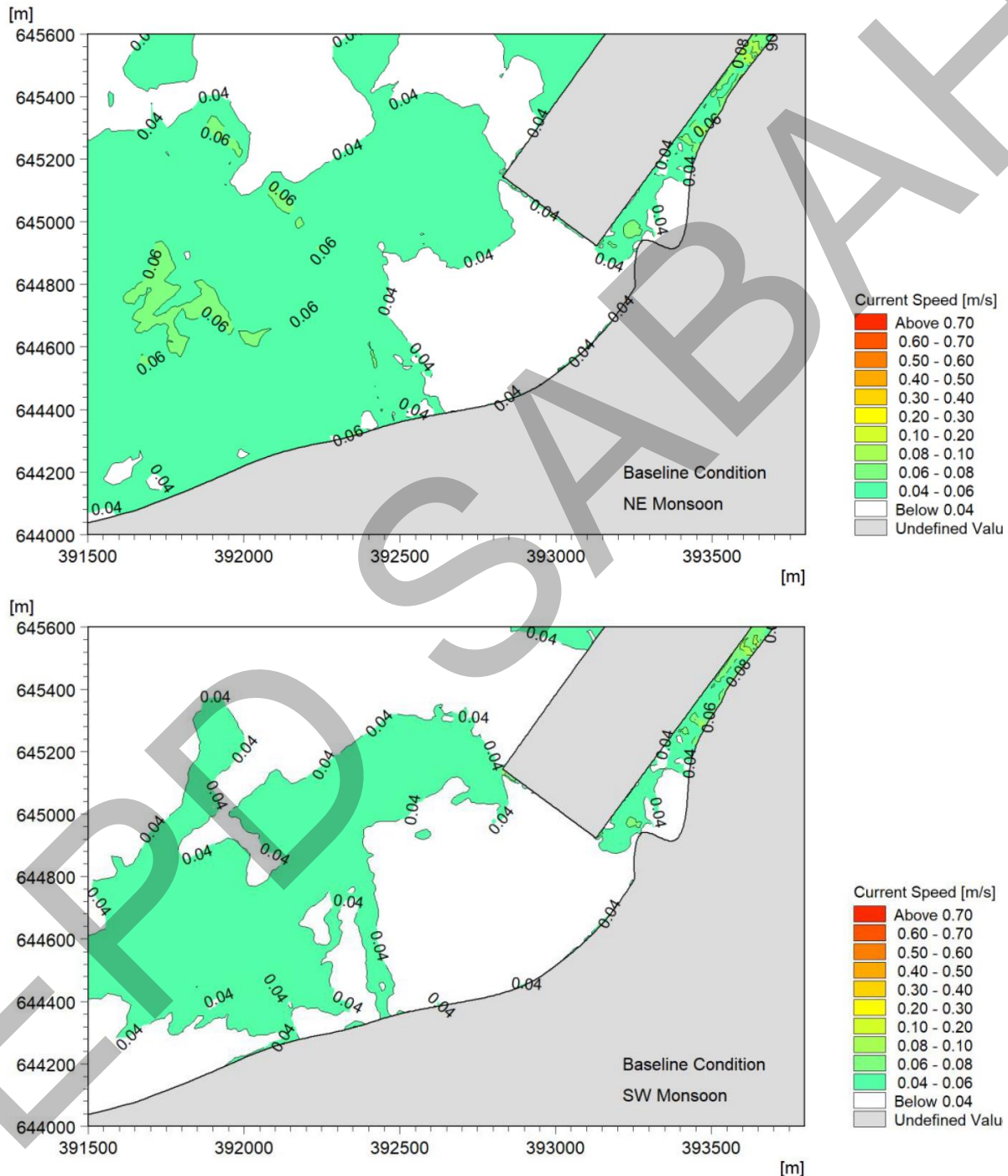


Figure 3.1(a): Mean current speed during NE (top image) and SW (bottom image) monsoon
Source: Hydraulic Study

Wave Conditions

The proposed site generally is well sheltered against offshore waves. The predicted coastal waves around the proposed area are very small, losing their energy across the shallow areas before reaching the coastline. The existing significant wave heights vary from 0.05 m to 1.40 m.

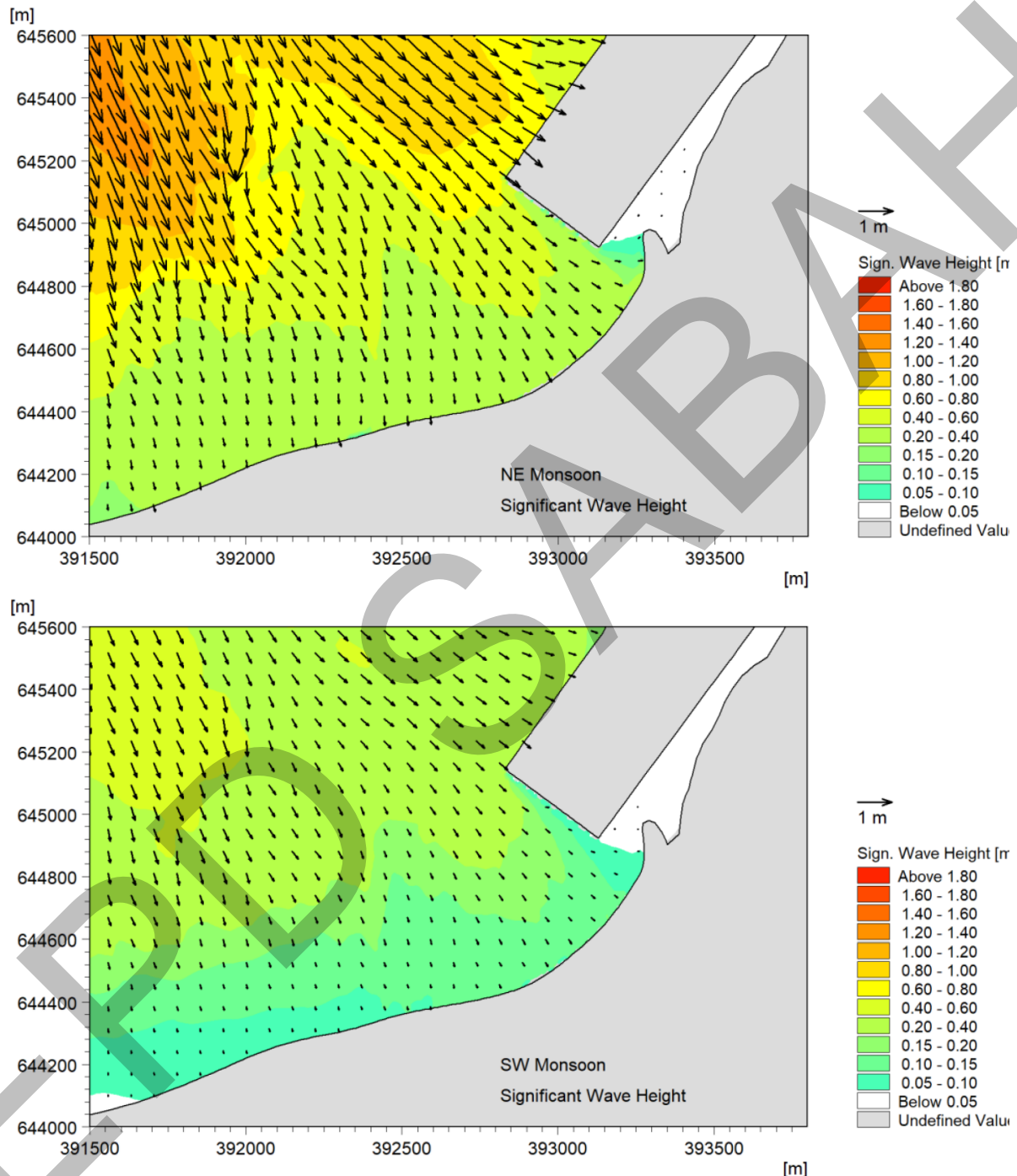


Figure 3.2(b): Average wave heights during NE (top image) and SW (bottom image) monsoon
Source: Hydraulic Study

Water Level Conditions

The tide regime is described as diurnal and mixed type (1 or 2 high water per day). Tidal range is about 0.55m (neap) and 1.8m (spring).

Wind Conditions

Wind conditions governed by the monsoon season i.e., NE, SW and IM. Wind speed ranges between 1 – 6 m/s around Project site.

3.1.4 Topography and Hydrology

The Project land-based part is seated on a flat land, which is slightly sloping downwards as approaching to the sandy beach area and seawater. The nearest river that can be found within the vicinity of the Project area is the Kinarut River Estuary (**Plate 3.3**), which is about 1.6 km southwest away from the Project site.



Plate 3.3: Kinarut River Estuary

3.1.5 Soil

Based on the Sabah Soil Map 1974, the soil within the land-based part of the Project is identified as soil of the Tanjong Aru Association where its landform is categorized as beaches. The parent material is alluvium and the main soil units consist of Dystric and Eutric Regosols; Humic, Dystric and Eutric Gleysols; as well as Gleyic Podzol. Seabed sediments at the area are a mixture of sand and fines from the rivers that settles here due to the rather sheltered waters. The Soil Investigation shall be incorporated in the EIA report. The boreholes' location map is attached in **Annex 4.0**.

3.1.6 Geology

Based on the Geological Map of Sabah published by the Mineral and Geoscience Department 3rd edition 1985, the geological setting of the land-based part of Project is composed of the formation of the Recent age, which only consists of coastal and riverine alluvium.

3.1.7 Meteorology

The Project site is located in Kinarut, Papar, and experiences an equatorial climate characterized by heavy rainfall, uniform temperature, high humidity and moderate wind throughout the year.

3.2 Biological Environment

3.2.1 Terrestrial Flora and Fauna

During the general site survey at the land-based part on 21st January 2022, no rare or protected terrestrial flora and fauna was encountered within the Project site. There was limited vegetation on-site, as the site area had been previously cleared, leaving little traces of secondary vegetation like grasses and *lalang*. Coastal vegetation sighted within the vicinity of the Project area includes beach vegetation that is considered common to coastal areas around Sabah i.e. Sea Almond Tree (*Terminalia catappa*), Coconut Tree (*Cocos nucifera*), Aru Tree (*Casuarina equisetifolia*), as well as Beach Morning Glory (*Ipomoea pes-caprae*).

The nearest mangroves that can be found at the vicinity are at the river mouth and estuary of Sg. Kinarut, which are dominated by *Rhizophora apiculata*. It is mostly mature forests, with large trees at low density. The mangroves at Sg. Kinarut have been bisected by Jalan Pengalat Lok Kawi, resulting in some disturbance around the edges. The mangroves near the river mouth to north and south have also been cleared for housing as well as tourism and recreation development.

Meanwhile, the fauna observed during the site visit include chestnut munia (*Lonchura atricapilla*), and egrets. Domestic dogs were observed within the vicinity at the beach areas and a few goats that was reared by the settlement near to the Project site.



Plate 3.4: Mixed of grasses and *lalang*



Plate 3.5: Coconut tree



Plate 3.6: Egrets



Plate 3.7: Domestic dogs sighted at the beach area

3.2.2 Aquatic Flora and Fauna

Based on the marine ecology survey conducted previously in 2019 for the EIA of this Project, it was reported that the area within the Project boundary is characterized as having muddy-like silty substrates, and extremely turbid waters causing poor visibility of approximately 0.1 to 0.2 m. Hence, the presence of sensitive marine habitats such as coral reefs and seagrass beds within the Project site is unlikely based on the substrate condition and limited light penetration into the water. Neither sessile nor free-swimming living organisms were observed within the site too. However, fishing activities using line and net were observed surrounding the Project area during flood tide shows that there were fishes moving along with the incoming tidal flow.

Several coral reefs can be found approximately 0.6 – 1.5 km northwest and near Pulau Mantukud, with coral species recorded includes hard coral (*Galaxea sp.* and *Acropora sp.*), which are the dominant coral genus; as well as gorgonians (sea fan *Annella sp.* and whip coral *Leptogorgia sp.*). The coral health status was reported to be in poor (<3%) to fair (50%) condition based on the Reef Health Criteria (Chou *et al.*, 1994). The study area which is found to have 50% of substrate comprising of living coral cover is located 1.5 km northwest away from the proposed site.

Other than corals, other species, i.e., sponge (encrusting sea sponge); nutrient indicator algae; giant clam (*Tridacna sp.*); and damsel fish were also reported at approximate 0.6 – 1.5 km away from the Project site. Giant clam (*Tridacna sp.*) is a protected species and to be more specific, it is also found 1.5 km northwest from the proposed site.

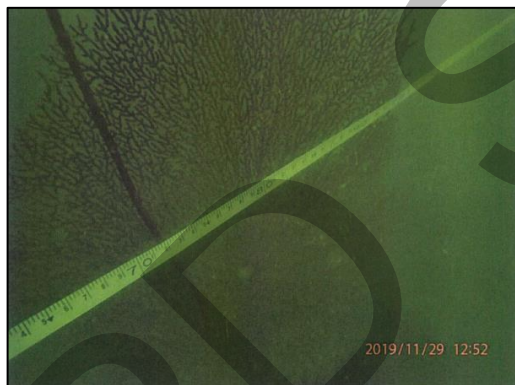


Plate 3.8: Whip coral and sea fan at 600 m northwest



Plate 3.9: *Galaxea sp.* at 1.5 km northwest

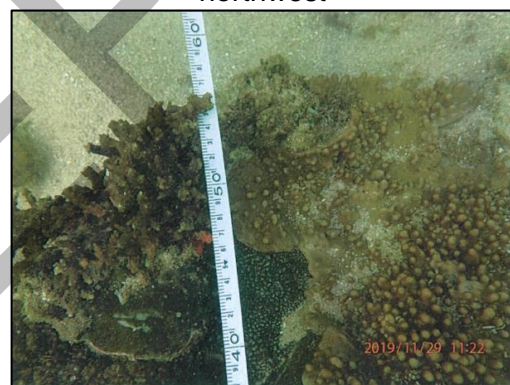


Plate 3.10: Branching *Acropora sp.* at 1.5 km northwest



Plate 3.11: Giant clam at 1.5 km northwest

3.3 Human Environment and Surrounding Land Use

The Project site, which is located at Kinarut, Papar, is generally surrounded by a mixture of land use i.e. human settlements or residential/ housing areas, tourism and recreation spots, educational institutes, as well as business, commercial and industrial buildings. Navigational activities are involved within vicinity for the purpose of transporting tourists and staff to/ from the Sunborneo Island Resort, which is located 3.87 km northwest from its main office, Sunborneo Holidays Sdn. Bhd., 1.57 km southwest away from the Project boundary.

The nearest human settlements to the Project site are the mixture of coastal and land villages of Skim Penempatan Kinarut, Kg. Laut Kinarut and Kg. Suoangan, which are located within 0.02 – 0.20 km south to southeast boundary of the main development site. Common economic activities known in the surrounding area include fishing, small business such as hardware stores, industrial and tourism-related activities. Residents of the few coastal village houses of Skim Penempatan Kinarut, located 0.04 km south from the main Project boundary still conducts small scale fishing within vicinity of Project area for own consumption and also as a source of income.

Educational institutes near the Project site include SMK Kinarut, Tabika Perpaduan, Sekolah Agama Rakyat (SAR) and Tadika Nurul Iman. Meanwhile, government buildings within vicinity are Komuniti Sihat Perkasa Negara (KOSPEN) Kg. Laut Kinarut, *Balai Polis Kinarut*, as well as the Lok Kawi Oxidation Pond. The nearest tourism and recreation land use are Seaside Travellers Inn, Langkah Syabas Beach Resort and Borneo Paradise Resort.

Two (2) islands namely Pulau Mantukud and Pulau Dinawan are located approximately 1.43 km and 4.26 km northwest from the Project site. Currently, there are no known settlements occupying Pulau Mantukud. While for Pulau Dinawan is a private island with Sunborneo Island Resort that served as tourism spot. Only one (1) forest reserve i.e., Kawang Forest Reserve (Class I – Protection Forest Reserve) was observed but located beyond 5 km southeast. Refer table below and **Figures 3.2** for details on the overall land use features within 3 km and 5 km radius from the Project boundary.

Table 3.1: Land Use Surrounding the Project Site

Land Use		Position off Site Boundary		
		Distance (km)	Direction	
Human Settlements	1. Skim Penempatan Kinarut	0.04	Up to 1 km	S
	2. Kg. Laut Kinarut	0.04		SE
	3. Kg. Suoangan	0.20		NE
	4. Kg. Sabok Laut	0.23		E
	5. Kg. Lepas	0.33		S
	6. Kg. Pitoru D	0.40		NE
	7. Taman Kinarut Jaya	0.46		NE
	8. Taman Lok Kawi Perdana	0.56		NE
	9. Taman Pantai Lok Kawi	0.57		NE
	10. Kg. Pitoru C	0.58		NE
	11. Taman Sri Juta	0.62		E
	12. Rose Garden	0.62		E

	13. Taman Kinarut	0.72	Up to 2 km	E
	14. Taman Sungai Wang Kinarut	0.94		E
	15. Taman Sri Kinarut Selatan	1.01		SW
	16. Kg. Pitoru B	1.02		NE
	17. Taman Lok Kawi	1.06		NE
	18. Palm Beach Villa	1.17		SW
	19. Lok Kawi Height Apartment	1.19		NE
	20. The Palm Condominium	1.20		E
	21. Kg. Tengah Kinarut	1.27		SE
	22. Kg. Anak Kinarut	1.39		S
	23. Taman Sri Kinarut	1.40		E
	24. Kg. Pitoru A	1.45		NE
	25. Taman Limauan	1.48		SW
	26. Taman Kinarut Ria	1.65		S
	27. PPR Kinarut Ria	1.67		S
	28. Kg. Seri Menanti	1.83		SW
	29. Kg. Lengkuas	1.86		E
	30. Kg. Kuala 2 Kinarut	1.88		SW
	31. Mook Ideal Garden	1.96		S
	32. Taman Lengkuas	1.91		E
	33. Flats Kinarut	2.38	Up to 3 km	S
	34. Taman Segindai	2.57		E
	35. Kg. Meruntum	3.70	Up to 4 km	NE
	36. Kg. Potuki	4.02		NE
	37. Kg. Beringgis	4.23	Up to 5 km	SW
	38. PPR Taman Sri Serigai	4.51		NE
Business/ Commercial/ Recreational Buildings	1. TKH Hardware	0.08	Up to 1 km	SW
	2. A&D Trading	0.15		SW
	3. Tian Song Marketing Sdn. Bhd.	0.16		SE
	4. Xinfatt Trading Sdn. Bhd.	0.18		SE
	5. Terus Gemilang Enterprise	0.28		SW
	6. Seaside Travellers Inn	0.35		SW
	7. Bumimas Hardware Sdn Bhd	0.35		E
	8. Bengkel Motor Servis	0.38		NE
	9. Sri Fairus Enterprise 2	0.43		NE
	10. Langkah Syabas Beach Resort	0.45		SW
	11. Andalas Maju Automobile	0.61		SW
	12. Lydia's Café	0.61		NE
	13. Chip Seng Heng Marketing Sdn Bhd	0.61		NE
	14. Petronas Fuel Station (A)	0.63		SW
	15. 98 Tyres & Batteries Services	0.64		NE
	16. Netzt Furniture & Sofa Services	0.74		E
	17. Daily Auto Parts Sdn. Bhd.	0.75		E
	18. The Palm Condominium Showroom	0.88		E
	19. Lok Kawi Square (Shoplot)	0.91		SW
	20. Rose Garden Plaza	0.91		E

	21. Shoplot (B)	1.02	Up to 2 km	SE
	22. CKS Supermarket	1.04		NE
	23. Palm Square	1.05		E
	24. Borneo Paradise Resort (Plate 26.0)	1.08		SW
	25. Lok Kawi Point	1.10		NE
	26. CCK Fresh Sdn. Bhd.	1.16		NE
	27. Petronas Fuel Station (B)	1.16		NE
	28. Sunshine Furniture	1.19		NE
	29. Shoplot (A)	1.20		SW
	30. Kilang Kicap Hing Wah (Sabah) Sdn Bhd	1.24		NE
	31. Toyo Auto Services Centre Sdn Bhd	1.26		NE
	32. Kinarut Shop Houses	1.28		E
	33. Cooltech Tyres Sdn Bhd	1.39		NE
	34. Syarikat Aban-D Industries	1.40		NE
	35. Lok Kawi Bumiputra Auto Service	1.42		NE
	36. Weida Integrated Industries Sdn Bhd	1.44		NE
	37. Shell Fuel Station	1.47		NE
	38. Perabot HB Chan	1.53		NE
	39. Wan Lee Motors Sdn Bhd	1.56		NE
	40. Sunborneo Holidays Sdn. Bhd.	1.57		SW
	41. Desa Hatchery	2.19	Up to 3 km	NE
	42. Taman La Gloxinia Garden Kinarut	2.28		SW
	43. Desa Cattle Lok Kawi	2.72		NE
	44. Shooting Range Lok Kawi	2.97		NE
	45. Lok Kawi Wildlife Park	4.31	Up to 4 km	NE
Industrial Area	1. Kinarut Industrial Zone	1.60	Up to 2 km	NE
	2. Lok Kawi Industrial Estate	1.75		SE
	3. Fook Mee Trading Import and Export	1.86		NE
	4. Tembovo-Meruntum Industrial Park	4.46	Up to 5 km	NE
Educational Institution	1. SMK Kinarut	0.25	Up to 1 km	E
	2. Pusat Pembelajaran Alternatif SPMP Kinarut	0.25		SW
	3. Tabika Kemas Kg. Kinarut Laut	0.34		SE
	4. Tabika Perpaduan (A)	0.48		SW
	5. Sekolah Agama Rakyat Pekan Lok Kawi	0.92		NE
	6. Tadika Sinar Suria	0.97		NE
	7. Tadika Masjid Nurul Iman	1.02	Up to 2 km	NE
	8. Tabika Perpaduan (B)	1.09		NE
	9. SK Pekan Kinarut	1.31		E
	10. Tadika Kin Kiau	1.39		E
	11. SJK (C) Kin Kiau	1.48		E
	12. Monforth Youth Training Centre (MYTC) Learning Centre	1.89		SE
	13. Monfort Youth Training Centre (MYTC) Residential Campus	2.02	Up to 3 km	S

	14. IKBN Kinarut	2.19		S
	15. MRSM Kota Kinabalu	3.34	Up to 4 km	SW
	16. SK Mook	3.47		S
	17. Sekolah Kebangsaan Kem Lok Kawi	3.79		NE
	18. Tabika Kemas Lok Kawi Baru	3.95		NE
Religious Structure and Building	1. Surau Al-Iman Billah	0.21	Up to 1 km	S
	2. Surau Rahmat	0.49		SW
	3. Surau Kg. Suoangan	0.68		NE
	4. Pusat Karismatik Kalvari Lok Kawi	0.87		NE
	5. Masjid Nurul Iman	1.02	Up to 2 km	NE
	6. Masjid Puncak Takwa Kinarut	1.02		NE
	7. Muslim Cemetery	1.33		NE
	8. Tien Nam Shi Temple	1.44		E
	9. St. Augustine Church	1.87		E
	10. Masjid Nur Hikmah	2.01	Up to 3 km	SW
	11. St. Paul's Chapel on the Hill	2.15		SE
	12. Sri Subramaniam Temple	2.44		NE
	13. Masjid As-Salam Kem Lok Kawi	2.63		NE
	14. Masjid Du Yu Fur Rahman	4.14	Up to 4 km	NE
Government Building/ Structures	1. KOSPEN Kg. Laut Kinarut	0.19	Up to 1 km	S
	2. Lok Kawi Oxidation Pond	0.88		NE
	3. Balai Polis Kinarut	1.00		NE
	4. Parti Bersatu Sabah	1.13	Up to 2 km	NE
	5. Stesen Keretapi Sabah	1.34		E
	6. Kinarut Railway Station	1.35		E
	7. Lembaga Industri Getah Sabah	1.53		NE
	8. Kuarters Jabatan Keretapi Negeri Sabah	1.71		E
	9. Kem Lok Kawi	3.24	Up to 4 km	NE
	10. General Operations Force Headquarters	3.89		SW
Medical and Health Service	1. Klinik Kesihatan Kinarut	0.43	Up to 1 km	NE



Plate 3.12: Skim Penempatan Kinarut



Plate 3.13: Kg. Suoangan



Plate 3.14: Taman Kinarut Jaya



Plate 3.15: Taman Lok Kawi Perdana



Plate 3.16: Taman Sri Juta



Plate 3.17: Kg. Pitoru D



Plate 3.18: Rose Garden Kinarut



Plate 3.19: Kg. Pitoru B



Plate 3.20: Taman La Gloxinia Garden Kinarut



Plate 3.21: PPR Taman Kinarut Ria

**Plate 3.22: D.Y (Drive-thru) Car Wash****Plate 3.23: Seaside Travellers Inn****Plate 3.24: Sabindo Shoplot****Plate 3.25: Langkah Syabas Beach Resort****Plate 3.26: Chip Seng Heng Marketing Sdn Bhd****Plate 3.27: Daily Auto Parts Sdn. Bhd.****Plate 3.28: SMK Kinarut****Plate 3.29: SK Pekan Kinarut**



Plate 3.30: SMK Agama Tun Datu Mustapha Limauan



Plate 3.31: MRSM Kinarut



Plate 3.32: Tadika Masjid Nurul Iman



Plate 3.33: Montfort Youth Training Centre



Plate 3.34: Masjid Nurul Iman



Plate 3.35: Masjid Imam Hj Md. Yaqoub Bin Misir



Plate 3.36: Pusat Karismatik Kalvari Lok Kawi



Plate 3.37: Sri Subramaniam Temple



Plate 3.38: St Augustine Catholic Church



Plate 3.39: Tanah Perkuburan Orang-orang Islam Kg. Beringgis



Plate 3.40: SAFODA Kinarut



Plate 3.41: Jabatan Perkhidmatan Veterinar Sabah, Kinarut



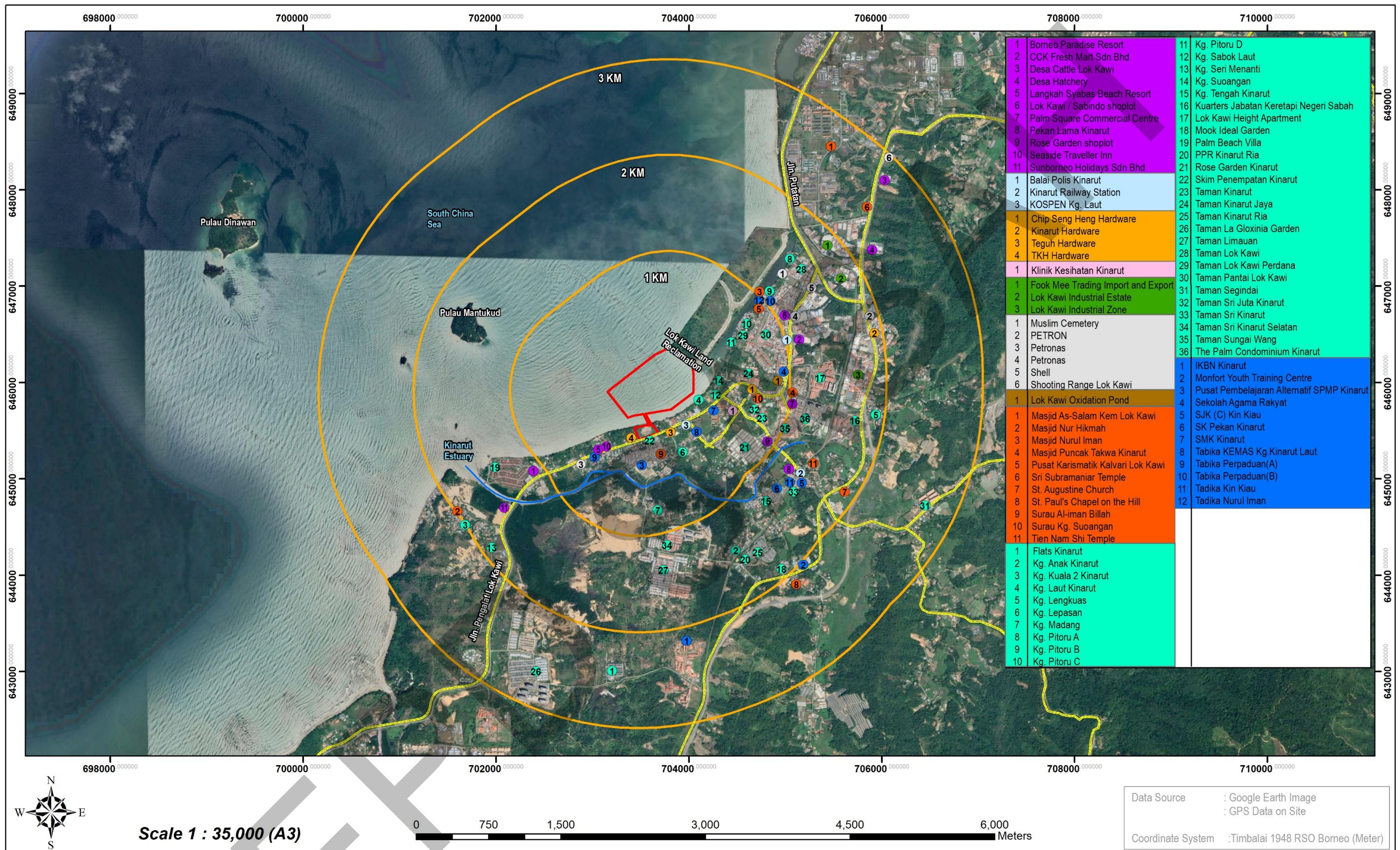
Plate 3.42: Lok Kawi Oxidation Pond




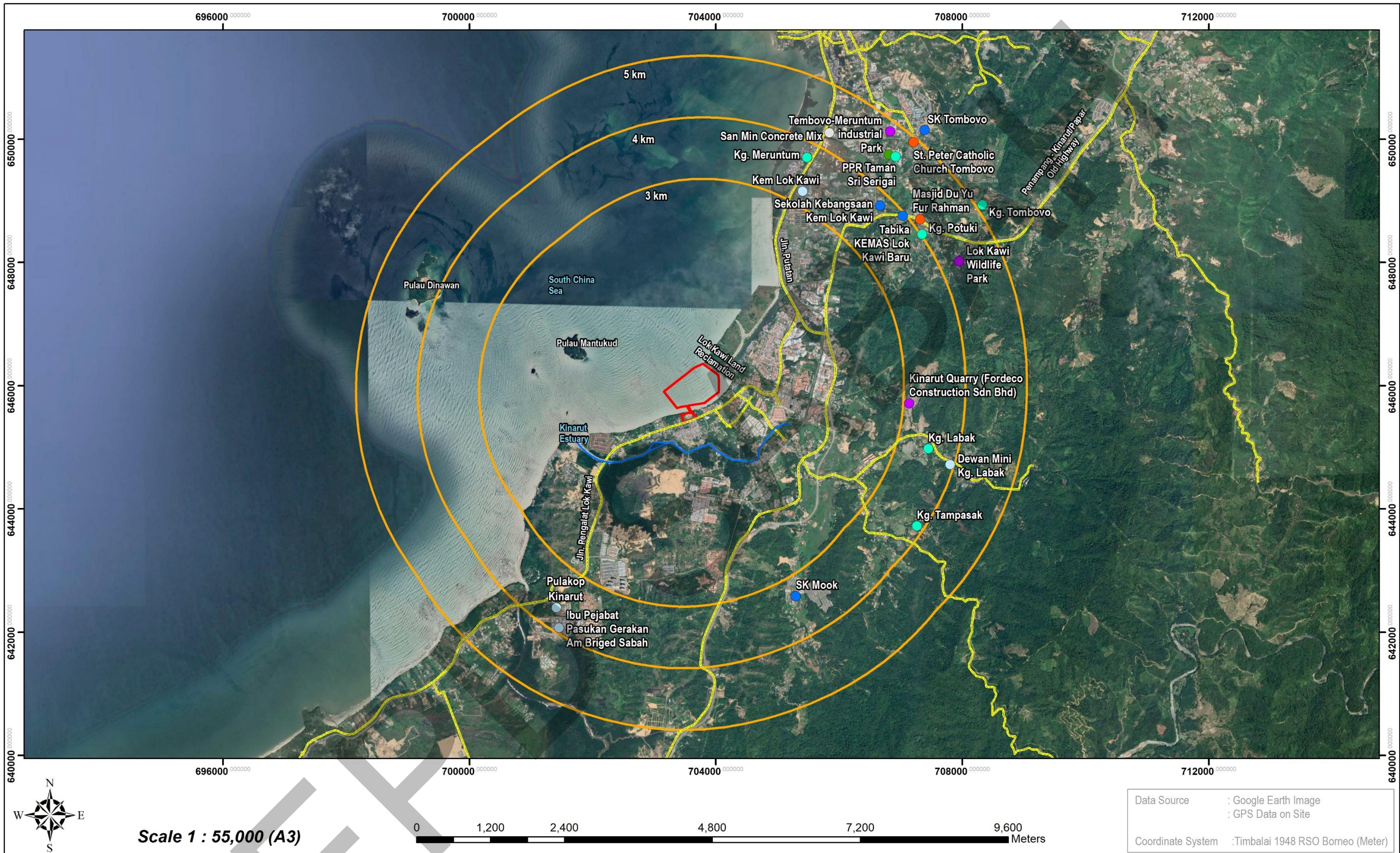
Plate 3.43: Balai Polis Kinarut



Plate 3.44: Klinik Kesihatan Kinarut



Project Title Proposed Subdivision of CL.025370629, CL.025313080 (CL.025348627) & CL.025342563 (CL.025348636) for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah	Legend <div><div><div></div><div>Project Boundary</div></div><div><div></div><div>Road</div></div><div><div></div><div>River/Stream</div></div></div>	<div><div><div></div><div>Business/Commercial/Recreational Buildings</div></div><div><div></div><div>Government/Public Buildings</div></div><div><div></div><div>Hardware</div></div><div><div></div><div>Healthcare</div></div></div>	<div><div><div></div><div>Industrial Area</div></div><div><div></div><div>Others</div></div><div><div></div><div>Oxidation Plant</div></div><div><div></div><div>Religious Buildings</div></div></div>	<div><div><div></div><div>Residential Area</div></div><div><div></div><div>Schools and Institutions</div></div></div>	<div><div><div><div>ELAKKANTORINGAUDITINGSDN</div><div></div></div></div><div><div>Figure 3.2</div><div>(a)</div></div></div>	Surrounding Land Use (3 km)	
						Project Proponent: Mujur Lagenda Sdn Bhd	
						Environmental Consultant: Envsolve Sdn Bhd	
						Reference Number: ENVN/04/01/A/431-1/22	Drawn By : Floyd



Project Title
 Proposed Subdivision of CL.025370629, CL.025313080 (CL.025348627) & CL.025342563 (CL.025348636) for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah

Legend

- Project Boundary
- Road
- River/Stream
- Business/Commercial/Recreational Buildings
- Government/Public Buildings
- Industrial Area
- Religious Buildings
- Schools and Institutions
- Residential Area

Figure 3.2 (b)

Surrounding Land Use (5 km)

Project Proponent: Mujur Lagenda Sdn Bhd

Environmental Consultant: Envsolve Sdn Bhd

Reference Number: ENVS/04/01/A/431-1/22

Drawn By : Floyd

4 SCOPE OF EIA STUDY

4.1 Main Environmental Impacts

Based on the preliminary site assessment conducted on the 21st January 2022, below is a list of proposed and identified prioritised environmental issues for the proposed Project:

Key Environmental Impacts:

1. Marine Water Pollution
2. Hydraulic Impacts
3. Air and Noise Pollution
4. Marine Ecological Impact
5. Socio-Economic Impacts

Other Potential Impacts:

1. Traffic and Transportation
2. Marine Navigational Impact
3. Waste Generation
4. Occupational Safety and Health
5. Abandonment (Visual and Aesthetic)

4.2 Scoping Matrix of Identified Environmental Issues

The environmental issues identified for this proposed Project are as shown in the following long list scoping matrix.

Table 4.1: Long List Scoping Matrix of Environmental Issues

Environmental Issue	Magnitude	Permanence	Reversibility	Cumulative	Final Score
Site Preparation, Reclamation and Construction					
Main Environment Impacts					
Marine Water Pollution	2	2	3	3	3
Hydraulic Impact	2	3	3	3	3
Air and Noise Pollution	2	2	2	3	2
Marine Ecological Impact	2	2	2	3	2
Socio-Economic Impacts	2	3	2	3	2
Other Environment Impacts					
Traffic and Transportation	2	2	2	3	2
Marine Navigational Impact	2	2	2	2	2
Waste Generation	2	2	2	3	2
Occupational Safety and Health	1	2	2	2	2
Abandonment (Visual impact and aesthetic value)	2	3	3	2	2
Operational Stage					
Marine Water Pollution	2	3	2	3	3
Hydraulic Impact	2	3	2	3	3
Socio-Economic Impacts	2	3	3	3	2
Traffic and Transportation	2	2	2	2	2

Legend:	Score		
Criteria	1	2	3
<u>Magnitude</u> Measure of the importance of the condition in relation to spatial boundaries	Change/effect within project site only	Change/effect to local conditions and/or to areas immediately outside	Regional/national/international change/effect
<u>Permanence</u> To define whether the condition is temporary or permanent	No change/not applicable	Temporary	Permanent
<u>Reversibility</u> Measure of the control over the effect of the applied condition	No change/not applicable	Reversible	Irreversible
<u>Cumulative</u> Measure of whether the effect will be a single effect or a cumulative effect over time or a synergistic effect with other conditions	No change/not applicable	Non-cumulative/single	Cumulative
<u>Final Scores</u> Potential adverse environmental impact	Minor potential	Medium potential	High potential

4.3 Zone of Impact (ZOI)

The ZOI as shown in table below and **Figure 4.1** is arbitrarily taken based on the predicted impact by taken into consideration of the distribution type of the surrounding land use and socio-economic activities, hydrology, land and marine traffic as well as marine ecology and hydrodynamic conditions.

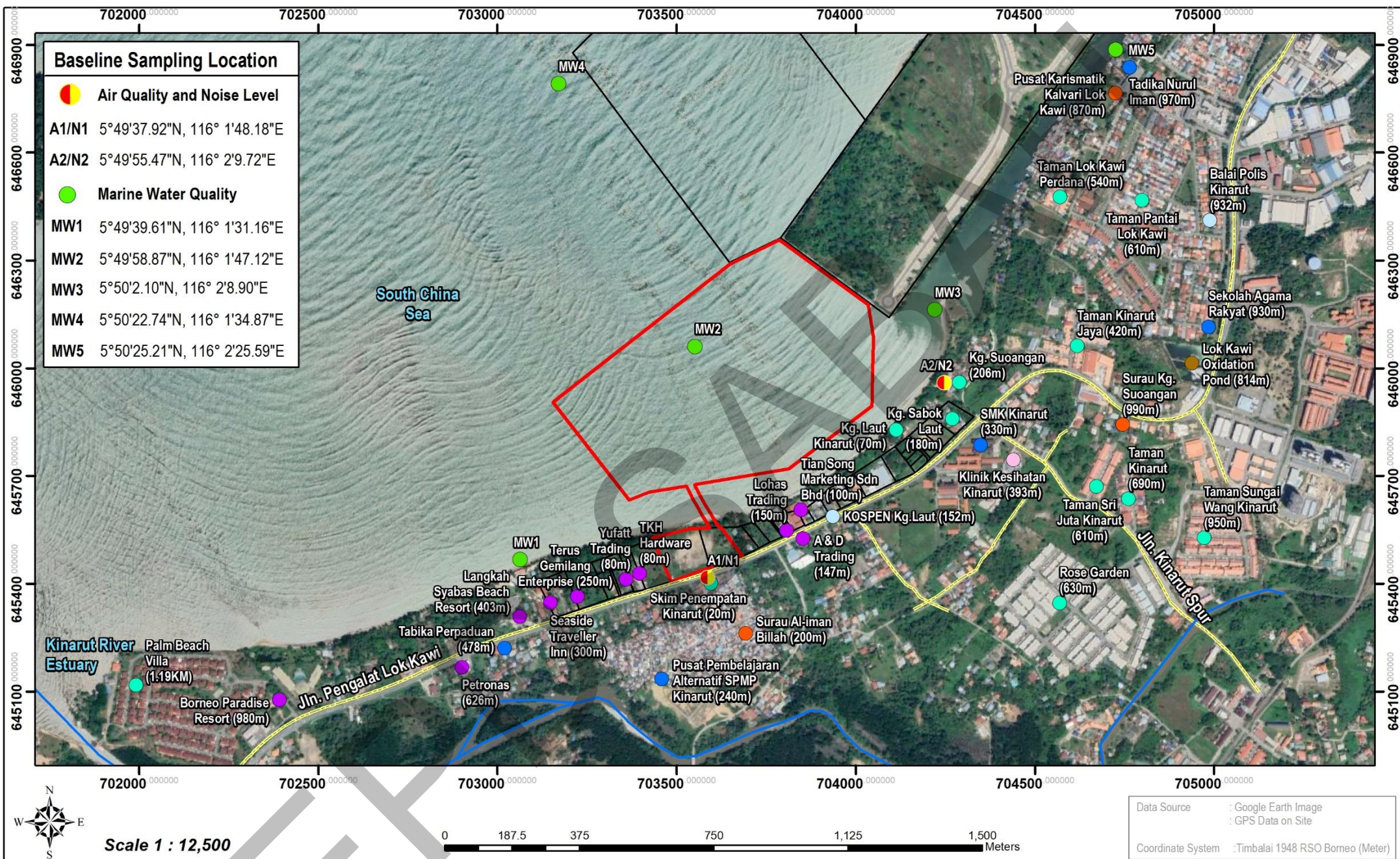
Table 4.2: Zone of Impact (ZOI)

Impacts		Affected Areas	Position off Project Boundary		Details
			Distance	Direction	
Major Impacts	Marine Water Pollution	Seawater surrounding the Project site	-	-	<ul style="list-style-type: none"> Project development activities, especially reclamation and bridge construction activities will lead to generation of sediment plumes and will result in the increase of turbidity and sedimentation caused by the dispersion of fine sediments. The use of heavy machineries, such as the marine construction equipment may result in unintentional oil spill and indiscriminate disposal of oil and grease from construction ships / vessels as well as transportation barge and tugboat. The development (inclusive of post-construction stages) will affect the water exchange within the canal between the reclaimed land and water village of Kg. Pitoru, as well as within the development layout with a potential increase in retention time of areas immediately landward of the reclamation, causing poorly flushed areas that causes stagnant water and thus accumulate rubbish or pollutants. Cumulative impacts are expected from the future reclamation development of Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides.
		Coastal businesses and commercial land use	0.08 – 0.39 km	SE - SW	
		Coastal houses of Kg. Laut Kinarut	0.04 km	SE	
		Kg. Suoangan	0.20 km	NE	
		Corals and Seagrasses	0 – 3.94 km	W – N	
		Mangroves of Sg. Kinarut	1.6 km	SW	
	Hydraulic Impact	Coastline nearby the Project site	0.06 – 0.24 km	S – E	<ul style="list-style-type: none"> The Project implementation may affect the coastal hydrodynamics i.e. current flow trends and velocities, water level, coastal morphology and wave patterns. Area at site immediate surrounding will experience changes in waves and currents and may also experience changes to sediment transport patterns.
		Kinarut River Estuary	1.6 km	SW	

Impacts	Affected Areas	Position off Project Boundary		Details
		Distance	Direction	
				<ul style="list-style-type: none"> The coastline nearby the Project site (adjacent beach and river estuary) would potentially experience gradual coastal morphological impacts over time (years). The proposed reclamation works and bridge construction will shelter the local coastline against waves, thus changing the local sediment transport pattern. Cumulative impacts could be expected from the future reclamation development of Sunduvon S/B at the adjacent north.
Air and Noise Pollution	Skim Penempatan Kinarut	0.02 km	S	<ul style="list-style-type: none"> Exposure of the reclamation area of the Project to strong coastal wind action may aggravate dust dispersion which leads to the reduction of visibility in the area. Emissions from construction equipment, work vessels and other vehicles used for the construction work could also be a source of air pollution. Noise pollution may arise due to the increased traffic and other construction equipment and machineries. Cumulative impacts are expected from the future reclamation activities of Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides.
	Kg. Laut Kinarut	0.04 km	SE	
	Coastal business and commercial land use	0.08 – 0.15 km	SE - S	
	Kg. Suoangan	0.18 km	E	
	SMK Kinarut	0.25 km	SE	
	Taman Kinarut Jaya	0.46 km	NE	
	Taman Lok Kawi Perdana	0.57	NE	
Marine Ecological Impact	Taman Pantai Lok Kawi	0.57	NE	<ul style="list-style-type: none"> The Project implementation could interrupt the existing marine life i.e. coral reef, mangrove, microbenthic at the Project area and its immediate surrounding through marine water pollution, hydraulic impacts and waste generation. Cumulative impacts are expected from the future reclamation activities of Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides.
	Seawater surrounding the Project site	-	-	
	Corals and Seagrasses	0 – 3.94	W – N	
Socio-Economic Impacts	Mangroves of Sg. Kinarut	1.6	SW	<ul style="list-style-type: none"> The presence of the coastal construction machineries and pressure of foreign workers might cause uneasiness and worries to the nearby residents and resort visitors during the Project implementation.
	Kg. Laut Kinarut	0.02	S	
	Kg. Suoangan	0.18	E	
	Seaside Travellers Inn	0.30	SW	

Impacts		Affected Areas	Position off Project Boundary		Details
			Distance	Direction	
Minor Impacts		Langkah Syabas Beach Resort	0.39	SW	<ul style="list-style-type: none"> • Navigational and fishing activities might be disrupted during the Project implementation, due to the sea front development and operational activities on-site. • Cumulative impacts are expected from the future reclamation activities of Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides.
		Taman Kinarut Jaya	0.46	NE	
		Taman Lok Kawi Perdana	0.57	NE	
		Taman Pantai Lok Kawi	0.57	NE	
	Traffic and Transportation	Jalan Pengalat Lok Kawi	Immediate	S	<ul style="list-style-type: none"> • Presence of heavy and slow-moving transporting vehicle may obstruct the view of other road users, subsequently posing safety hazard. • These shall also cause emissions of dust and other air pollutants and affect traffic flow of the public access road which is shared by the other road users residing or commuting at the vicinity. • Increase of traffic load during the operational stages of the resort and recreational areas will lead to traffic congestion along the access roads. • Cumulative impact could be contributed by any transportation activities for the future reclamation development Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides.
		Jalan Putatan	2.93	NE	
	Marine Navigational Impact	Navigational route used by the coastal villagers	-	-	<ul style="list-style-type: none"> • The reclamation activities at the Project site may temporarily disrupt the existing navigational pattern for small boats travelling from the few houses of the coastal villagers of Kg. Laut Kinarut and Kg. Suoangan. • Marine traffic is expected to increase during the Project implementation due to any shipment of equipment, machineries, and construction materials.
	Waste Generation	Seawater surrounding the Project site	-	-	<ul style="list-style-type: none"> • Wastes from this Project are mainly attributed by the scheduled waste, sewage and domestic waste and solid waste. • Indiscriminate disposal of the waste into the seawater will lead to soil and marine water contamination as well as emission of bad odour towards the surrounding.
		Kg. Suoangan	0.20	NE	
		Skim Penempatan Kinarut	0.02	S	
		Kg. Laut Kinarut	0.04	SE	

Impacts	Affected Areas	Position off Project Boundary		Details
		Distance	Direction	
				<ul style="list-style-type: none"> This will directly affect the quality of water in the waterbodies (if any) crossing the nearby human settlement if the waste is not being disposed and managed properly.
Occupational Safety and Health	Within and surrounding the site-			<ul style="list-style-type: none"> The earthwork, coastal and land construction activities are associated with the risk of job-related injuries and accidents that could be either due to individuals work practice or from the operation of equipment and machineries.
Abandonment (Visual and Aesthetic)	Within and surrounding the site-			<ul style="list-style-type: none"> The abandoned Project site might pose safety hazards to the general public and will result in degradation the aesthetic values of the landform. In addition, the proposed Project would most likely change the view of its immediate surroundings. Unfinished base and earth spoils would appear visually unpleasant during earthwork phase.



Project Title

Proposed Subdivision of CL.025370629, CL.025313080 (CL.025348627) & CL.025342563 (CL.025348636) for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah

Legend

- Project Boundary
- Road
- River/Stream

- Business/Commercial/Recreational Buildings
- Government/Public Buildings
- Healthcare

- Religious Buildings
- Residential Area
- Schools and Institutions

- Oxidation Plant



Figure 4.1

Zone of Impact and Proposed Baseline Sampling Locations

Project Proponent: Mujur Lagenda Sdn Bhd

Environmental Consultant: Envsolve Sdn Bhd

Reference Number: ENV/S/04/01/A/431-1/22

Drawn By : Floyd

5 DESCRIPTION OF ISSUES AND PROPOSED ASSESSMENT METHODOLOGY

5.1 Key Environmental Issues

Listed below are the key environmental issues associated with the implementation of the proposed Project. These issues will be studied in detailed in the EIA report and right measures to control and to mitigate the adverse environmental impacts shall be recommended.

5.1.1 Marine Water Pollution	
<p>Project implementation when involves reclamation and bridge construction activities may create disturbance to the seabed and potential indiscriminate/accidental spill of fine sediments into the marine water that will lead to increase of suspended sediment in the water column and turbidity level. Cumulative impacts are expected from the future reclamation activities of Sunduvon S/B at the adjacent north when the period of implementation of the projects coincides. Due to the alteration of coastal morphology with the creation/extended canal in between the coastline and the main development site, the Project may alter the flushing characteristics of the area and cause a poorly flushed area, which in return will cause the water to be stagnant, thus potentially accumulating rubbish or pollutants. Moreover, the use of heavy machineries such as marine construction equipment may lead to water pollution due to any unintentional oil spill from construction ships and indiscriminate disposal of waste oil and used grease. Marine water pollution is anticipated to affect the nearest settlements i.e. Skim Penempatan Kinarut, Kg. Laut Kinarut, Kg. Suoangan; business and commercial buildings near the coastal area, especially Seaside Travellers Inn and Langkah Syabas Beach Resort; corals and seagrasses in the surrounding area; as well as the mangrove of Sg. Kinarut. The proposed development will also affect the water exchange within the Lok Kawi Bay area i.e. the canal between the reclaimed land and water village of Kg. Pitoru, as well as within the development layout with a potential increase in retention time of areas immediately landward of the reclamation.</p>	
Assessment Methodology	<ul style="list-style-type: none"> - Examine existing land use maps and hydrographical maps to identify possible affected water bodies and immediate receptors of marine water pollution (e.g. coastal land use and marine habitat). - Review of hydraulic study on sediment plume models: <ul style="list-style-type: none"> a) Assessment by using a calibrated and validated hydrodynamic model according to DID guideline coupled with the wave model and a cohesive sediment transport module (MIKE21 Cohesive Mud Transport), with taking into consideration of the different seasonal meteorological conditions. - Review of hydraulic study on sediment plume models, flushing models, and water quality models: <ul style="list-style-type: none"> b) Assessment by using modeling (MIKE 21 Advection Dispersion module) of a conservative tracer under different current conditions with due considerations of seasonal variations. - Review of foundation and construction method of bridge. - Baseline water sampling shall be done at locations as shown in Figure 4.1. Collected samples will be preserved and sent to a SAMM accredited laboratory, ALS Technichem (M) Sdn Bhd. The typical

	<p>parameters involved in chemical and microbiological analysis and method references are summarized as follows:</p> <p><u>Marine water</u></p> <table><tr><th>Parameters</th><th>Units</th><th>Method References</th></tr><tr><td>Temperature</td><td>°C</td><td>APHA 2550 B</td></tr><tr><td>DO</td><td>mg/l</td><td>APHA 4500-O G</td></tr><tr><td>TSS</td><td>mg/l</td><td>APHA 2540 D</td></tr><tr><td>O & G</td><td>mg/l</td><td>APHA 5520 B</td></tr><tr><td>Mercury</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Cadmium</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Chromium Hexavalent</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Copper</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Arsenic</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Lead</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Zinc</td><td>mg/l</td><td>APHA 3120 B</td></tr><tr><td>Cyanide</td><td>mg/l</td><td>APHA 3500 Cr-B</td></tr><tr><td>FCC</td><td>MPN/100 ml</td><td>APHA 9222 D</td></tr></table> <p>*APHA represents Standard Methods for the Examination of Water and Wastewater (American Public Health Association), 21st Edition, 2005.</p>	Parameters	Units	Method References	Temperature	°C	APHA 2550 B	DO	mg/l	APHA 4500-O G	TSS	mg/l	APHA 2540 D	O & G	mg/l	APHA 5520 B	Mercury	mg/l	APHA 3120 B	Cadmium	mg/l	APHA 3120 B	Chromium Hexavalent	mg/l	APHA 3120 B	Copper	mg/l	APHA 3120 B	Arsenic	mg/l	APHA 3120 B	Lead	mg/l	APHA 3120 B	Zinc	mg/l	APHA 3120 B	Cyanide	mg/l	APHA 3500 Cr-B	FCC	MPN/100 ml	APHA 9222 D
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Mitigation Measures	<p>Aim: To ensure marine water quality within the Project site and its surroundings comply with the various environmental guidelines.</p> <ul style="list-style-type: none">- Any possible sources of pollution, i.e. sanitary facilities, diesel storage areas, maintenance area, temporary waste collection area should be located away from the seawater, as well as any potential area of water flow.- Indiscriminate dumping of any construction waste or scheduled waste into the sea is prohibited.- Collect accumulated water surface rubbish as part of regular cleaning/maintenance activities.- Proper maintenance to the machineries shall be given to prevent oil leakage into the seawater.- Regular inspection and maintenance of containment structure to prevent potential sediment dispersal from reclamation site.- Provision of silt curtain/screen, proper containment, and others suitable sedimentation control measures to control sediment dispersion.																																										
Monitoring Programs	<ul style="list-style-type: none">- Regular monitoring of water quality will be conducted by sampling surrounding the Project site.- Photographs showing provision of sediment and erosion control measures i.e. silt screens.																																										

5.1.2 Hydraulic Impact

The Project creates hydraulic effect on coastal hydrodynamics in terms of altering the current flow trends and velocities, water level and wave patterns. Immediate surrounding area will experience changes in local current fields and sediment transport dynamics. The coastline along the Project site i.e. beach and nearby river estuary may experience gradual coastal morphological impacts over the years. The proposed development and bridge will shelter the local coastline against waves. This will in turn change the local sediment transport pattern and therefore the coastline characteristics and the overall morphology. Cumulative impacts are expected from the future reclamation development of Sunduvon S/B at the adjacent north.

Assessment Methodology

- Data collection i.e. current velocities, water level, bathymetrical data from navigational sea charts and previous surveys as shown in **Figure 5.1(a)**.



Figure 5.1(a): Bathymetrical survey at the Project site

- Simulation studies or models below are to be conducted via the Hydraulic Study:
 - a) DHI's MIKE21 Hydrodynamic (HD) model – Simulations to be conducted for three (3) meteo-marine conditions each covering a 14-days spring and neap tidal cycle (NE, SW and Inter-monsoon). Changes in water levels and current conditions at the Project site including the surrounding area will be quantified based on the modelling exercise measured using stationary Acoustic Doppler Current Profiler (ADCP) mounted in steel frames which to be deployed on the location as shown in **Figure 5.1(b)**.



Figure 5.1(b): Locations of the deployed current meters

- b) Detailed assessment of wave propagation to the site by using MIKE21 Spectral Wave (SW) quantification of changes in wave climate caused by the Project.
- c) Deriving coastal morphological impacts by addressing the sediment transport using MIKE21 Sand Transport (ST) through wave and current patterns, where the impact assessment is focusing on the adjacent coastlines along Kinarut Beach. Sediment samples are collected on locations as shown in **Figure 5.1(c)** and sent to accredited laboratory, STL Geotechnical Engineering Sdn Bhd for analysis.



Figure 5.1(c): Locations of sediment grab sampling

- Review of foundation and construction method of bridge.
- Assessment of cumulative impact from other future proposed reclamation development i.e. new reclamation of Sunduvon S/B at the adjacent north.

Mitigation Measures	<p>Aim: To minimise hydraulic impact from the reclamation activities and its effect on water quality i.e. flushing impact during the post-reclamation/construction stages.</p> <ul style="list-style-type: none"> – Careful site selection and design of the reclamation layout and bridge construction to minimize changes in current patterns and coastal morphology. – Preventive measures against scour of revetment structures should be recommended. – Careful design of internal circulation seawater system.
Monitoring Programs	<ul style="list-style-type: none"> – Regular and frequent inspection on the coastal profile for sign of erosion and deposition or spit formation to impediment of waterway due to sedimentation. – Records of maintenance of construction structure to ensure its efficiency and avoid further recession at the adjacent coastline if any. – Information on water levels and tidal prism should be recorded.

5.1.3 Air and Noise Pollution

Air and noise pollution impact will be mainly contributed by the increase of dust level and noise generation attributed to the Project activities. Air pollution is inevitable due to the reclamation, construction, and transportation activities of this Project. Furthermore, the exposure of the on-going reclamation surfaces at the Project area to the strong coastal wind action may aggravate dust dispersion which also leads to the reduction of visibility in the area. Emissions from construction equipment, work vessels and other vehicles used for the construction work could also be a source of air pollution. The increased traffic, operation of construction equipment and machineries will contribute to increase of noise level. Cumulative impacts are expected from the future reclamation activities of Sunduvon S/B at the adjacent north when the time frame of implementation of the projects coincides.

Assessment Methodology	<ul style="list-style-type: none"> – Review of land use map and topographical survey map to determine the sensitive area i.e. settlements that will potentially receive air and noise pollution from the Project development. – Baseline ambient air quality at the proposed sampling locations as shown in Figure 4.1 will be measured by using Particulate Matter 10 (PM10) Microns & Less High-Volume Sampler (HVS) Model TE-6000. This sampler will run for 24 hours per point. – Baseline noise measurement at the proposed sampling locations as shown in Figure 4.1 will be conducted using Sound Level Meter Model 2900 or Soundpro Model SE. This Sound Level Meter can record the equivalent continuous sound pressure level. Sampling will be conducted for 24 hours per point. Data obtained shall be recorded in L_{eq}, L_{max} and L_{min} readings. The recorded noise data will be downloaded using software QuestSuite™ Professional II (QSP-II). The software displays the recorded noise details including the graphical presentation in 15 minutes interval.
Mitigation Measures	<p>Aim: To reduce the impact of air and noise pollution within the surrounding of the Project area targeting mainly on nearby communities as well as towards on-site workers.</p>

	<ul style="list-style-type: none"> - Frequent water spraying within the Project site should be conducted particularly during dry and windy days to reduce dust formation due to vehicular movement. - Proposed wash bay to be constructed at the egress of the Project site to avoid dirt from being conducted to public roads. - Open burning of biomass and other solid waste is strictly prohibited. - Hoarding shall be erected along the Project land boundary (if necessary) to prevent direct dust migration and noise transmission. - Speed limit at the vicinity of the proposed site shall be limited to 35km/h to minimise formation of dust clouds. - Construction and transportation activities shall be limited to normal daytime operation of 8.00 am to 5.00 pm excluding peak traffic hours. - Speeding and honking when passing through the sensitive area i.e. school, worship areas, and residential areas along the access roads is prohibited. - Machineries and equipment shall be maintained regularly to prevent unnecessary noise generation. High noise emitting equipment should be housed in suitable enclosures whenever practicable. - Machines that are not constantly used should be allowed to shut down or remain idle at the lowest noise producing capacity. - Workers exposure to noise shall not exceed the permissible limits outlined in the First Schedule of Factories and Machinery (Noise Exposure) Regulation, 1989. - Workers handling machineries with excessive noise should be provided with hearing protection devices such as muffs or ear plugs
Monitoring Programs	<ul style="list-style-type: none"> - All Project activities are confined to daytime operation only. - Erection of appropriate speed limit signs. - Periodical water drenching operation at the Project site. - Periodical air and noise monitoring to be conducted at selected points. - Photographs showing erection of speed limit signs as a warning for drivers to slow down when in the Project site. - Records of regular maintenance of vehicles, machineries and equipment. - Schedule of daily construction and transportation activities confined to daytime operation. - Field checks on provision of hearing protection devices for the concerned workers particularly those involved in noisy operations. - Compilation of all relevant complaints and reports lodged by the communities in the vicinity of the Project.

5.1.4 Marine Ecological Impact

The Project implementation may affect the existing marine lives within the Project site and its immediate surroundings by suspended solid and indiscriminate disposal of scheduled wastes generated from the Project activities as they are hazardous to aquatic lives shall cause a disturbance in the marine environment, particularly at any coral and seagrasses located and the mangrove of Sg. Kinarut at the Project surrounding area. Potential increase of water quality deterioration due to the poor flushing condition along the existing canal to be extended by the proposed Project will the coastal environment. Cumulative impact could be contributed by the potential water pollution resulted by proposed development activities at the adjacent reclaimed land at the southeast, if the timeframe of the projects coincides.

Assessment Methodology

- Assessment on the existing coastal land use i.e. tourism and resort sites and their nature of businesses and marine activities.
- Review of hydraulic study on sediment plume and water quality models to identify and evaluate the magnitude of impacts towards Pulau Mantukud, Pulau Dinawan and protected marine habitat within the regional area i.e. Tunku Abdul Rahman Marine Park and Pulau Tiga.
- Investigation and assessment study on the current/latest marine ecology and status of any marine habitat with significance value i.e. existence of coral and seagrasses habitat at the vicinity.
 - a) A combination of point intercept transects (PIT) and underwater visual census (UVC) methods at each station shown in **Figure 5.2(a)** to characterize the prevailing benthic forms and to record the existence of marine life within and the surrounding of Project site.
 - b) Benthic substrate survey using photo quadrat and PIT methods will be added that cover the coastline from Tg. Dumpil to Beringgis, with distance roughly stretches up to 15 km. The proposed survey station is shown in **Figure 5.2(b)**.



Figure 5.2(a): Transect lines for bathymetry survey

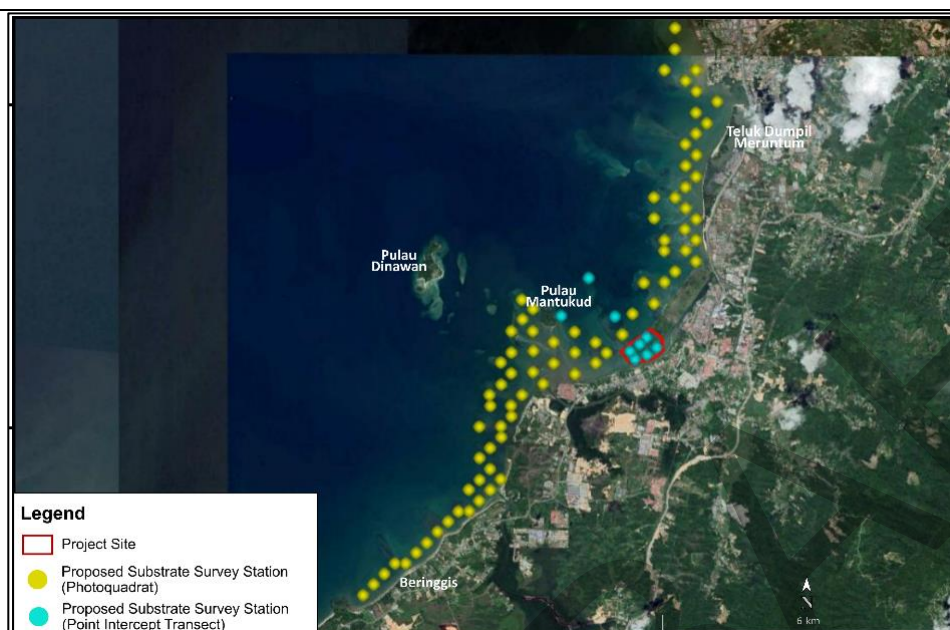


Figure 5.2(b): Proposed survey station

- Review of secondary data and fisheries data from related agencies i.e. Department of Fisheries and information gathered from literature reviews and locals.

Mitigation Measures

Aim: To reduce the impact of Project activities on marine ecology.

- Vessels and boats if used for the Project activities are needed to travel at slow speed especially at shallow areas to avoid boat or ship collision to aquatic habitat (if any) at the sea bottom.
- Regular inspection to identify aquatic life in the vicinity of the Project site during daylight hours.
- Accidental injury or killing of marine megafauna (if any) to be covered under emergency response plan.
- On-site maintenance to be carried out in the site maintenance area (if any), equipped with proper oil traps. Proper maintenance to the machineries shall be given to prevent oil leakage.
- Implementation of mitigation measures with respect to marine water quality control and waste management should be strictly adhered.

Monitoring Programs

- Implementation of monitoring programmes with respect to marine pollution control and waste management should be strictly adhered.

5.1.5 Socio-Economic Impact

The development will inevitably result in some form of impacts to the existing condition within the site and its immediate surrounding area. The pressure of foreign workers might cause uneasiness and worries to the residents of Skim Penempatan Kinarut, Kg. Laut Kinarut, Kg. Suoangan, Taman Kinarut Jaya, Taman Lok Kawi Perdana, Taman Pantai Lok Kawi, as well as visitors of Seaside Travellers Inn and Langkah Syabas Beach Resort during the Project implementation. Besides that, fishing activities for the few coastal villagers of Skim Penempatan Kinarut, Kg. Laut Kinarut and Kg. Suoangan might be disrupted at a

minimal level during the Project implementation, due to the sea front development activities on-site.	
Assessment Methodology	<ul style="list-style-type: none"> - Conducting interviews and distribution of survey questionnaire to affected surrounding community. - Identification of demographics and socio-economic activities particularly the fishing activities, potential fishing zone, communities and navigational activities surrounding the Project site through data collection from Department of Fisheries, interview with local communities and field observation. - Literature review shall be carried out to identify typical socio-economic impact for the similar Project. It also helps to develop questioning lines for interviews and survey question.
Mitigation Measures	<p>Aim: To minimize the impact of the Project towards socio-economic activities.</p> <ul style="list-style-type: none"> - Employment priority should be given to locals. However, if foreigners must be employed, proper documentation in compliance with the Immigration and Labour Rules and Regulations have to be observed and monitoring of these workers must be strictly enforced. - Medical check-up of the foreign workers shall be carried out prior to employment to ascertain that these workers are not disease-carriers. - All foreign laborers should be properly and effectively repatriated at the end of their contract. - Taking proper act on any complaints and comments received from surrounding community regarding the possible misconduct of the workers. - The head or community representative in the immediate vicinity of the Project should be properly informed of the project background, quantum and its proposed operation duration - On-site management should properly monitor the conducts of the workers and their interactions with the surrounding community. - Project proponent should control the environmental impacts which after a long term, surfaces and brought difficulties in many ways to surrounding community - Taking proper act on any complaints or comments from surrounding community pertaining to the Project activities.
Monitoring Programs	<ul style="list-style-type: none"> - Notices for the development activities should be issued to the affected community to inform them about the timing of the activities. - Record of the actual number of workers for the Project. Any major injuries and accidents should be recorded. - Record and compile any relevant complaints and comments lodged by the local community pertaining to the Project's operation. - Documentation of minutes of meeting or dialog conducted between developer and residents.

5.2 Other Potential Impact

5.2.1 Traffic and Transportation	
<p>Project implementation during development phase is expected to temporarily result in traffic disruption at Jalan Pengalat Lok Kawi and Jalan Putatan due to the presence of heavy and slow-moving vehicles used for the transportation of the construction materials. Additional traffic loads will also be expected during the operational phase where tourists coaches would be travelling to/from the Project site. Cumulative impact could be contributed by any transportation activities for the future reclamation development Sunduvon S/B at the adjacent north when the time frame of implementation of the projects coincides.</p>	
Assessment Methodology	<ul style="list-style-type: none"> Field assessment (social survey at the surrounding settlements) and observation of existing road and traffic conditions, potential hazards and limiting conditions. Review of Traffic Impact Assessment (TIA) and Traffic Site Plan (TSP) for operational phase, as per JKR Requirement. Discussions with the Project Proponent on the transportation route, transportation scheduling and management to be adopted during Project implementation.
Mitigation Measures	<p>Aim: To enhance the traffic flow in Project site hence minimizing the impact of unnecessary obstruction and safety hazard during Project implementation.</p> <ul style="list-style-type: none"> Signboards and safety signs should be erected at appropriate location. Speed limit and other traffic laws must be strictly obeyed. Employment of traffic operator when necessary to conduct signals for heavy vehicles during entering or exiting from/to Jalan Pengalat Lok Kawi should be adopted. Proper scheduling of transportation activities and avoid peak traffic hours (7.00 am to 8.30 am and 4.30 pm to 6.00 pm). Transporting vehicle should never be overloaded and materials must be covered to prevent accidental spillage/fallout. Proper road courtesy and safe driving should always be practiced by driver of vehicles. Extra precautionary measures should be taken especially during rainy period where unsuitable road conditions may lead to unexpected traffic danger. Tyres of transportation vehicles should be thoroughly cleaned to avoid formation of bulky deposited dirt and earth on the public road surface.
Monitoring Programs	<ul style="list-style-type: none"> Photographs of signboards, as well as speed limit and safety signs. Photograph showing proper containment of materials secured with canvas or tarpaulin during transportation activities.

5.2.2 Marine Navigational Impacts
<p>The marine traffic is expected to increase during Project implementation due to any shipment of reclamation material, equipment, machineries, and construction materials if it is via sea. The reclamation at the proposed site may temporarily disrupt any existing navigational route particularly for the fishing communities around the area and the tourist</p>

boats of Sunborneo Holiday office commuting to their resort island within the vicinity of the Project area.	
Assessment Methodology	<ul style="list-style-type: none"> – Field assessment. and observation on the existing types of navigational activities, vessels/ boats and fishing zone within and surrounding the Project area. – Review and assessment the concept of Project development activities i.e.:- <ul style="list-style-type: none"> ○ Reclamation works, sequence/phasing plan. ○ Concept or usage of barge, tugboat; and any other marine construction vessels or machineries. ○ Sea transportation method and route if involved for import of reclamation and/or construction materials. – Review findings on locality of sensitive marine habitat based the new marine ecology survey to propose and design the suitable navigational route for any sea transportation activities.
Mitigation Measures	Aim: To minimize the impact of Project operation on marine traffic condition and navigational activities.
	<ul style="list-style-type: none"> – Establish marine working areas with markers. – Provision of navigation marks and signs i.e. buoys and lights to notify boat operators at the Project area particularly during nighttime. – Avoid using busy navigation routes during offshore transportation of construction equipment, machineries, and materials.
Monitoring Programs	<ul style="list-style-type: none"> – Photographs showing provision of navigational signage and lightning at night.

5.2.3 Waste Generation

Wastes from this Project are mainly attributed by the use of heavy machineries for construction activities, which will result in the generation of waste oil and used grease. and There will be overburden of earth as well as vegetation/ biomass waste generated from the site clearing at the land-based part of the Project. Sewage and solid waste are expected to be generated from the workers' quarters, if any. Construction waste is also expected to be generated during the development period. Indiscriminate disposal or improper handling of these wastes into the seawater or elsewhere is highly hazardous to aquatic lives.

Assessment Methodology	<ul style="list-style-type: none"> – Discussion with Project Proponent and site survey will be conducted at the Project site to identify the locations and types of generated waste from machineries, equipment and other activities within the Project site. – Literature review to identify typical waste that will be generated for similar Project.
Mitigation Measures	Aim: To control the impact of waste from affecting the nearby land use and waterbody as well as minimizing health and safety risks of local community near the area.
	<u>Vegetative/ Biomass Waste</u> <ul style="list-style-type: none"> – Waste should be collected and piled at a designated area on-site prior to disposal to prevent obstruction of on-site movement.

	<ul style="list-style-type: none"> - Vegetative/ biomass waste and overburden disposal must be strictly limited to the approved dumping site. - On-site waste burning is strictly prohibited. <p><u>Scheduled Waste</u></p> <ul style="list-style-type: none"> - Oil and grease waste from machineries and maintenance should be collected and stored in high density polyethylene drums before being disposed of to designated disposal site by authorized dealers. - Temporary storage area (if any) should be located on shaded area and equipped with proper drainage system. <p><u>Sewage and Solid Waste</u></p> <ul style="list-style-type: none"> - Provisions of proper sanitary facilities equipped with septic tank to cater for raw sewage disposal are to be established at workers' quarters (if any on-site). - Provision of sufficient waste collection bins on-site to cater for generated domestic solid waste. Bin should be emptied regularly by further disposal to an approved dumping site. - Burning of waste and direct disposal of waste into any watercourse is strictly always prohibited <p><u>Construction Waste and Debris</u></p> <ul style="list-style-type: none"> - All construction waste should be properly collected and disposed off to an approved dumping site. - Direct discharge of construction waste into the sea is prohibited. - Appropriate measures for waste minimization and recycling should be applied to all other waste i.e. plastic, metal, paper, etc. - The Project site should be kept clean throughout the whole duration of the construction period and complete clean-up activity should be done to remove any type of waste or temporary structures after Project completion.
Monitoring Programs	<ul style="list-style-type: none"> - Photograph showing no spillage or leakage of oil and grease from machineries and equipment on the water. - Photograph showing provision of proper sanitary facilities and collection bins for domestic waste. - Prohibition of open burning of waste.

5.2.4 Occupational Safety and Health

The reclamation and construction activities are associated with the risk of job-related injuries and accidents that could be either due to the individual's work practice or from the operation of equipment and machineries. Lack of safety concern on either workers' or employers' parts as well as proper on-site training would be the factors contributing to accident occurrence. On-site accidents can result in death, permanent or temporary disability, minor injuries and physiological disturbance.

Assessment Methodology	<ul style="list-style-type: none"> - Literature review shall be conducted to identify typical occupational and health hazard for the similar Project. - Examining the conditions of the workplace to identify possible hazards.
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Mitigation Measures	Aim: To prevent case of accidents or injuries associated with the construction work.
	<ul style="list-style-type: none"> – Training, safety appliances, first aid and medical services, and Personal Protective Equipment (PPE) should be provided to the workers. – No employees shall be exposed to noise level exceeding the equivalent to the continuous sound of 90 dB(A) or exceeding the limits specified in the First Schedule of the Factories and Machinery (Noise Exposure) (Regulation), 1989. – Maintenance of machineries to ensure they are in good condition to avoid potential accident risks during handling and operation of the machineries. – Ensure that the necessary first aid kit is placed at easily accessible location. – Any occurrence of accidents, close calls, unsafe acts, unsafe conditions and potential hazardous situations that threaten bodily harm to the workers should be reported and recorded. – Operation during nighttime should be avoided to minimize impact of the Project to the surrounding area as well as to the workers.
Monitoring Programs	<ul style="list-style-type: none"> – Record of the actual number of workers for the Project. – Any major injuries and accidents should be recorded.

5.2.5 Abandonment

Abandonment of the Project would result in aesthetic degradation and might pose safety hazard to the public and also marine ecology. In addition, the proposed Project would most likely change the scenery of the Project site and its immediate surroundings. The Project area within the sea area will have a new bathymetric profile, and an irregular pattern of coastal morphology may be expected.

Assessment Methodology	<ul style="list-style-type: none"> – Description and assessment of the effect of the Project on resources that are valued by the people, and its interference with scenery and amenities that keep the quality of life for the local population.
Mitigation Measures	Aim: To minimize the overall visual and aesthetic impacts on the Project site and its surroundings.
	<ul style="list-style-type: none"> – Complete clean up activity should be done to remove any type of waste or temporary structures after the end of Project operation to ensure safety around the Project area. – Machineries, materials and wastes should all be removed from the site. – The operator shall maintain the existing vegetation that is not in the way of the operational stage.
Monitoring Programs	<ul style="list-style-type: none"> – Photographs showing rehabilitation and restoration activities on the worked area. – Photographs showing the removal of machineries and temporary structures.

6 DATA COLLECTION

The scopes of work for this Project are mainly site preparation, reclamation and construction activities. Hence, each characteristic of the existing environment near to the Project site must be assessed. Type of data collection for the assessment on each characteristic are listed as follows:

Table 6.1: Data Collection for each Environmental Characteristic

Characteristic	Type of Data
Physical Characteristic	
Bathymetry	<ul style="list-style-type: none"> Hydrological chart which shows the depth of the riverbed with relative to sea level
Topography	<ul style="list-style-type: none"> Regional Topography Map and Topographical Survey Plan Soil Map/ Soil Investigation Report
Hydrodynamics	<ul style="list-style-type: none"> Published and unpublished literature on the: wave conditions, bottom sediments, suspended sediments, water quality, marine ecosystems
Soil and Geology	<ul style="list-style-type: none"> Soil Map and Soil Investigation Report Geological Map
Climate and Meteorology	<ul style="list-style-type: none"> Annual Rainfall and Wind Speed record from Department of Meteorology
Biological/Ecological Characteristic	
Marine Flora and Fauna	<ul style="list-style-type: none"> Site assessment Literature review
Socio-Economic and Land Use Characteristics	
Human Environment and Surrounding Land Use	<ul style="list-style-type: none"> Demographic data from district office/council JUPEM topography map and Google/aerial image Socio-economic survey Land use assessment

6.1 Scoping Activities Undertaken

Listed below are the scoping activities undertaken at the Project site.

Site Visit	: 21 st January 2022
Data Collection	: Physical environment and surrounding land use
Socio-economic Survey (Interviews)	: In progress
Stakeholders Consultation	: In progress
Government Agency Consultation	: In progress

6.2 List of Authorities to be Consulted

Envsolve Sdn. Bhd. shall meet with the relevant authorities to seek their concerns over the proposed Project. Findings from these meetings that may affect the Project layout and concept will be brought to the client's attention. The authorities to be consulted are:

- Environment Protection Department, Sabah (EPD);
- Public Works Department;
- Sabah Marine Department;
- Sabah Fisheries Department;
- Drainage and Irrigation Department, Sabah (DID);
- Land and Survey Department, Kota Kinabalu (JTU);
- Department of Mineral and Geoscience Malaysia (JMG);
- Papar District Council;
- Jabatan Pelabuhan dan Dermaga Sabah (JPDS);
- Sabah Town and Regional Planning Department (JPBW);
- Department of Environment; and
- Other associated authorities.

6.3 EIA Study Guidelines

The EIA study and reporting will be based on the primary guidelines by the Environment Protection Department Sabah (EPD). Basic environmental requirement and assessment approach will be based on the following primary guidelines:-

- Handbook on Environmental Impact Assessment in Sabah (2nd Edition), 2005
- Environmental Impact Assessment (EIA), Guidelines for Land Reclamation Activities, 2012
- Environmental Impact Assessment (EIA), Guidelines for Shoreline Development Activities, 2012

Established environmental limits, standards and criteria which are not covered in the primary guidelines will be based on the Environmental Quality Act, 1974 and its subsidiary legislation. Further environmental limits or requirement not defined within the Environment Protection Enactment 2002, Environmental Quality Act 1974 and their subsidiary legislation will be based on values or other criteria generally accepted by EPD / DOE (see **Table 6.2**).

Table 6.2: Criteria Used for Impact Evaluation

Impact	Evaluation Criteria	Reference
Water Quality	Discharge limits and ambient water quality standards for Malaysia.	Environmental Quality (Sewage) Regulations 2009, Environmental Quality (Scheduled Waste) Regulations 2005, Malaysian Marine Water Quality Standards, National Water Quality Standards for Malaysia.
Hydraulic Impacts	Review of secondary hydraulic modelling data.	Guidelines for Preparation of Coastal Engineering Hydraulic Study and Impact Evaluation by DID
Soil Erosion and Sedimentation	Runoff management, erosion control criteria	Guidelines for Erosion and Sediment Control in Malaysia (DID, 2010)
Air Quality	Ambient air quality standards for Malaysia.	Malaysian Ambient Air Quality Standards (MAAQS), DOE
Noise	Ambient noise levels standards for Malaysia.	Planning Guidelines for Environmental Noise Limits and Control by DOE
Flood and Drainage	Guidelines and criteria issued by the DID in regards of acceptable flood flow or peak discharges for various catchments.	Manual Saliran Mesra Alam Edisi-2 (MSMA-2) (DID, 2012)
Land Use	Designated land use within specific structure and local plans.	Structure and local plans from district council and Town Planning.
Socio-Economic	Well-being and livelihood of the directly or indirectly affected local community as well as the surrounding human environment.	Social Impact Assessment in Malaysia (Malaysian Association of Social Impact Assessment).
Aesthetics	Perceived importance of resources and features by residents and visitors to the area.	Perception rating based on sample assessment of population.
Infrastructure and Utilities	Criteria and guidelines by respective approving agencies and authorities.	Roads – JKR; Sewerage – District Council; Water – Jabatan Air; Electricity – SESB; Telecommunications – Telekom Malaysia.

7 WORK SCHEDULE

The Project work programme and schedule will be as follows (subject to availability and acquisition of important information / data for the study).

Table 7.1: S-EIA Work Schedule

No.	Task	Progress (Months)									
		1	2	3	4	5	6	7	8	9	10
1.	Appointment & Mobilization of Study										
2.	Data Procurement and Collection										
3.	Site Survey										
4.	Preparation and Submission of TOR to EPD and Client										
5.	TOR Public Hearing (Review by Public)										
6.	Technical Committee Meeting										
7.	Additional Information Preparation and Submission										
8.	TOR Review and Approval by EPD										
9.	Primary Data Procurement and Collection										
10.	Data analyses and interpretation										
11.	Report drafting										
12.	Submission of Draft Report to Client										
13.	Review of Draft Report with Client										
14.	Submission of Final S-EIA Report to EPD										
15.	S-EIA Public Hearing (Review by Public)										
16.	Technical Committee Meeting										
17.	Additional Information Submission										
18.	S-EIA Review and Approval by EPD										

8 LIST OF PROPOSED INDIVIDUAL CONSULTANT

The study team for the Environmental Impact Assessment (EIA) study is listed below and the Certificates and CV of Registered Consulting Team are attached in **Annex 5.0**.

Table 8.1: Study Team Members

No.	Personnel	Qualification	Report Contribution
Consultants Registered with EPD			
1.	Lo Su Mui	B. Sc. (Applied Science) EPD Registration No. S0068 Registration Expiry Date: 29-01-2024	Project Leader; Water and Air Pollution
2.	Roziyanna Binti Manjuin	B. Sc. Hons (Environmental Sc) EPD Registration No. S0197 Registration Expiry Date: 09-02-2023	Social Economy and Land Use
3.	Festory @ Fasther Gadana	Bachelor of Surveying EPD Registration No. S0115 Registration Expiry Date: 23-09-2023	GIS
4.	Dr. Claus Pedersen	PhD (Hydrodynamics and Coastal Engineering) EPD Registration No. S0026 Registration Expiry Date: 30-09-2022	Hydraulic Study and Coastal Engineering
5.	Dorathy Penjinus	B.Sc. (Marine Science) (Hons.) EPD Registration No. S0216 Registration Expiry Date: 14-01-2023	Marine Ecology
6.	Tai Tsui Man	B. Sc. Hons (Environmental Sc) EPD Registration No. S0197 Registration Expiry Date: 18-12-2022	Hydrology
7.	Herwan Wahit	B. Sc. (Hons) Occupational Health & Safety Management EPD Registration No. S0218 Registration Expiry Date: 29-01-2024	Health and Safety Management, Noise Pollution
8.	Yong Kock Hui, Roger	B. Sc. (Earth Science/Geology) EPD Registration No. S0157 Registration Expiry Date: 22-11-2023	Geology
Team Members (Not Registered with EPD)			
1.	Rona Thecla Deny	B. Environmental Science and Technology	Project Coordinator, Human Environment
2.	Kamallia Putri A Rahman	B. Sc. (Hons) (Conservation Biology)	Flora and Fauna
3.	Cyprians Pang	B. Sc. (Hons) (Geology)	Soil and Geology
4.	Murlis bin Maaruf	B.A. (Hons) (Sociology and Social Anthropology)	Social Survey
5.	Floyd Froline	B. Surveying Science and Geomatics (Hons)	GIS

MUJUR LAGENDA SDN BHD

SPECIAL TERMS OF REFERENCE



SPECIAL ENVIRONMENTAL IMPACT ASSESSMENT

FOR

**PROPOSED SUBDIVISION OF CL.025370629, CL.025342563
(CL.025348627) & CL.025313080 (CL.025348636) FOR TOURISM AND
RECREATION RESORT DEVELOPMENT WITH TOTAL 42.8 HECTARES
ALONG JALAN PENGALAT LOK KAWI, AT KAMPUNG SUOANGAN,
KINARUT, PAPAR, SABAH**

REFERENCE NO : ENVSOLVE/04/01/A/431-1/22

DATE SUBMISSION : 28TH JANUARY 2022



1st Floor, No. 3, Lorong Kilang F, Kolombong,

88450 Kota Kinabalu, Sabah, Malaysia.

Tel: 088-388791 Fax: 088-388792

Email: envsolve@gmail.com

www.envsolve.com

ANNEXES

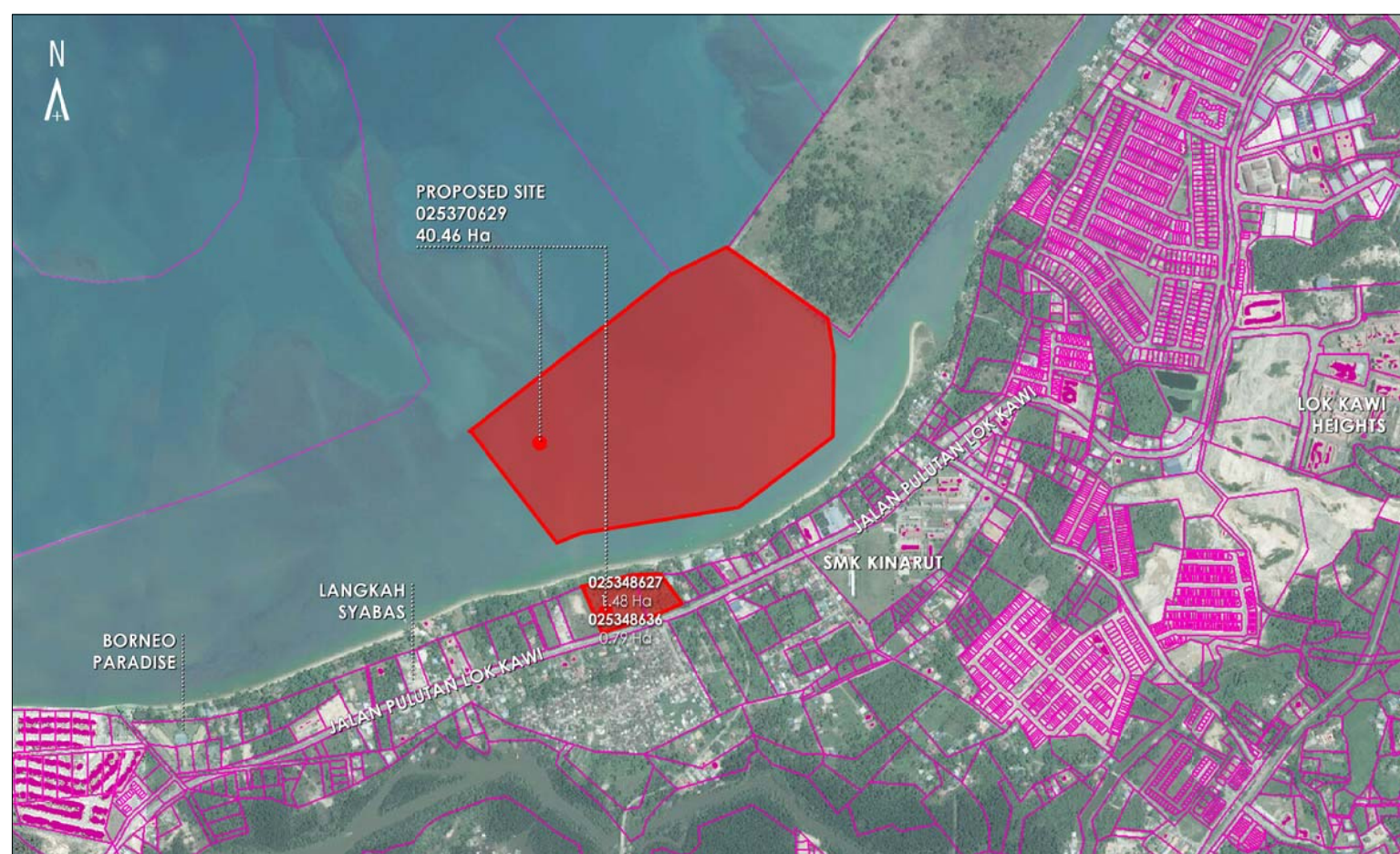
ANNEX 1.0

PLANS AND DRAWINGS

- 1.1 INTERIM DEVELOPMENT PLAN
- 1.2 EARTHWORK PLAN AND CROSS-SECTION
- 1.3 HYDROGRAPHICAL SURVEY PLAN

ANNEX 1.1

INTERIM DEVELOPMENT PLAN



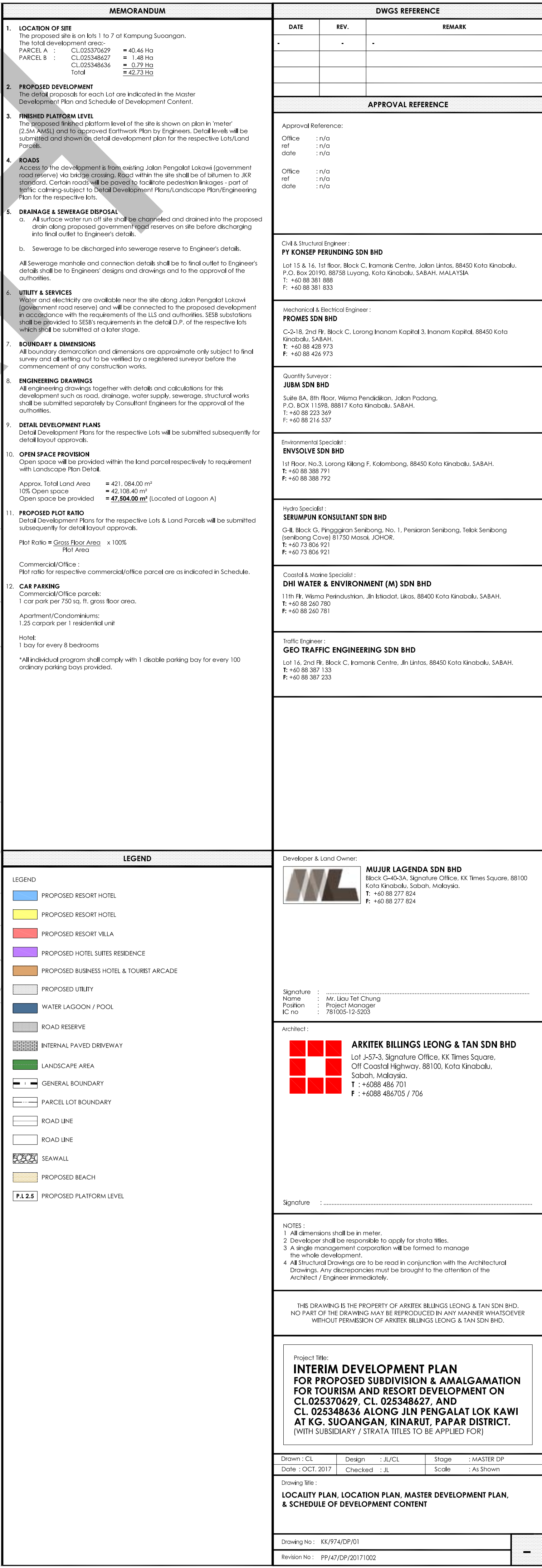
S/L#	SUB-TITLE NUMBER	LAND USE	No. BLOCKS	PROGRAM		BUILDING AREA (APPROX. BUILD-UP)				LAND AREA	
				DEVELOPMENT COMPONENT		Land Area	No. of Units/Rooms	No. of Units or Rooms	Total Built Up Area (sq.m)	sq.m	Acre
ESTADO	A	Resort Hotel		3-STORY RESORT LOBBY	12,446.00	2	24,892.00	77,663.00	20.88		
	B	Resort Hotel	3-STORY RESORT HOTEL BLOCK	250 ROOMS	9,883.00	5	49,415.00	59,218.00	14.63		
			5-STORY POOLUM BLOCK	2	19,766.00	69,181.00	17.67				
	C	Resort Villa	1-STORY RESORT VILLA	48 UNITS	21,700.00	48	10,416.00	22,548.00	47,236.00	11.63	
			2-STORY RESORT SERVICE PROGRAM		6,046.00	2	12,132.00				
	D	Hotel Suites Residence	16-STORY RESORT RESIDENTIAL BLOCK	108 UNITS	665.60	18	11,980.80	175,071.60	56,538.00	13.97	
			16-STORY RESORT RESIDENTIAL BLOCK	108 UNITS	665.60	18	11,980.80				
			18-STORY RESORT RESIDENTIAL BLOCK	108 UNITS	1,995.00	18	35,910.00				
			18-STORY RESORT RESIDENTIAL BLOCK	324 UNITS	4,400.00	18	79,200.00				
	E	Business Hotel & Tourism Arcade	Hotel Suites	108 UNITS	2,000.00	18	36,000.00				
			Hotel Suites	11-STORY SERVICE HOTEL SUITES	250 ROOMS	2,137.00	11	23,722.00	47,454.00	56,516.00	13.97
			Hotel Suites	11-STORY SERVICE HOTEL SUITES	250 ROOMS	2,137.00	11	23,722.00			
			Hotel Suites	5-STORY TOURIST ARCADE	5,483.00	5	27,415.00	54,830.00			
			Hotel Suites	5-STORY TOURIST ARCADE	5,483.00	5	27,415.00				
			Hotel Suites	5-STORY TOURIST ARCADE	5,483.00	5	27,415.00				
	U1	Utility	UTILITY / SERVICES / MAE				3,184.00	0.79			
U2	UTILITY / SERVICES / MAE					2,025.00	0.52				
U3	UTILITY / SERVICES / MAE					6,124.00	1.57				
U4	UTILITY / SERVICES / MAE					1,680.00	0.40				
W1	Water Logation	Lagoon A	WATER				47,204.00	11.74			
Lagoon B		WATER				254.00	0.06				
DR	Drain Reserve	DRRAIN				6,506.00	1.67				
R1	Road Reserve	ROAD				34,065.00	8.42				
U5	Utility	UTILITY / SERVICES / MAE				9,894.00	2.44				
U6		UTILITY / SERVICES / MAE				6,765.00	1.67				
R2	Road Reserve	Road Reserve				2,317.00	0.57				
R3	Road Reserve	Road Reserve (JKP Setback)				3,625.00	0.90				
APPROX TOTAL						401,226.40	421,084.00	105.74			

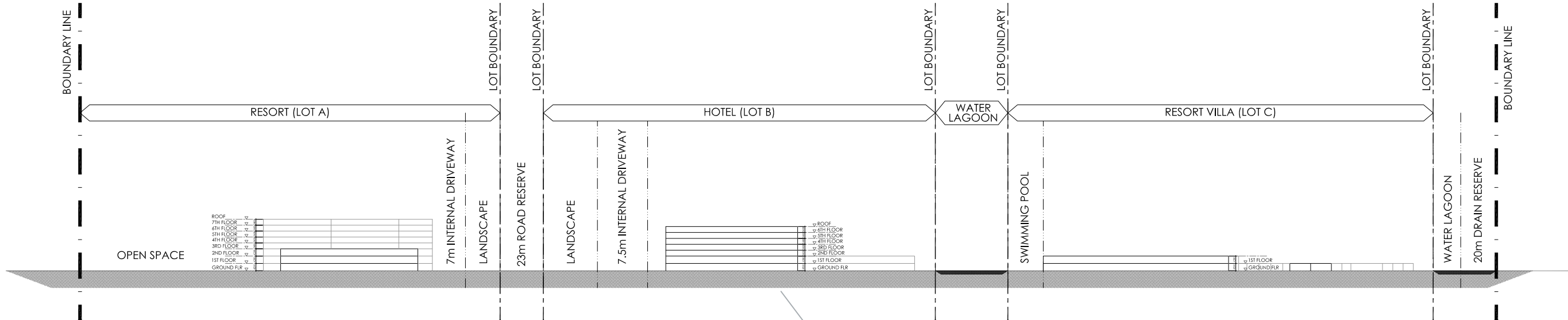
Area Tabulation



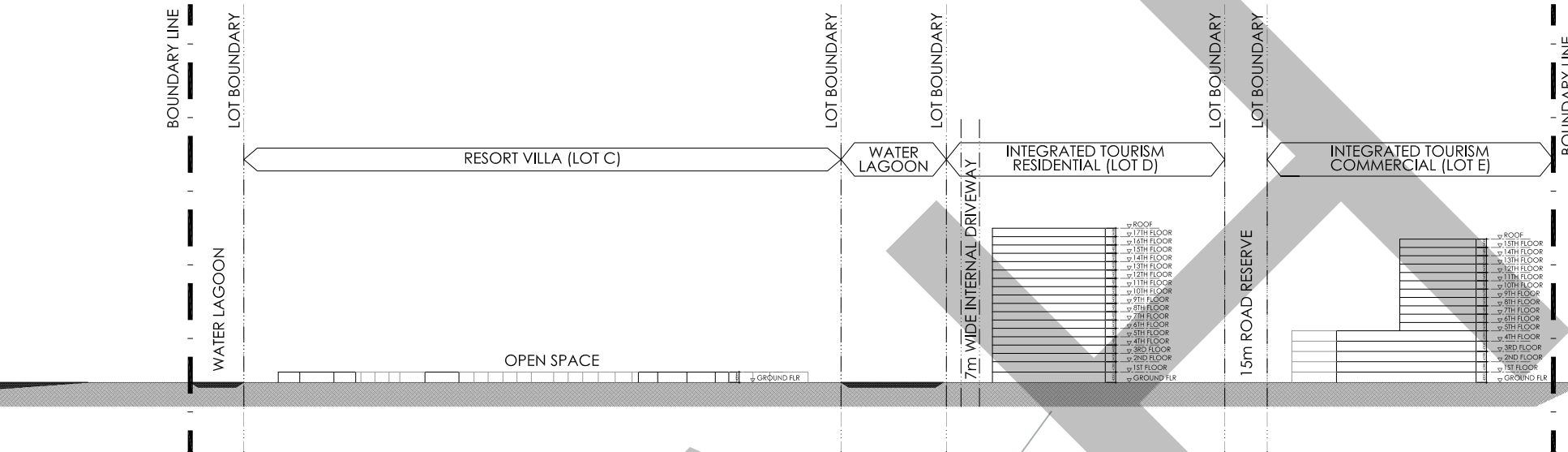
NOTES :

1. COMMERCIAL PARCEL: PLOT RATIO = $\frac{\text{GROSS BUILD UP FLOOR AREA}}{\text{LOT AREA}}$
- ALL BLOCKS/UNITS SHOULD BE INDICATIVE ONLY SUBJECT TO DETAIL DEVELOPMENT PLAN AND/OR BUILDING PLAN (TO BE SUBMITTED LATER).
- FOR COMMERCIAL PARCELS, THE GROSS FLOOR AREA/NET FLOOR AREA ARE INDICATIVE OF MAX. ALLOWED SUBJECT TO DETAILS IN DETAIL DEVELOPMENT PLANS FOR THE RESPECTIVE PARCELS.
2. EFU: EFFECTIVE FLOOR USAGE = 70% (ASSUMING 30% ALLOWANCE FOR CIRCULATION AND M&E SERVICES) - SUBJECT TO DETAIL BUILDING PLANS.
3. EST + ENTIREMENT
- EST + ENTIREMENT SHALL BE PROVIDED IN ACCORDANCE TO SESS'S REQUIREMENTS IN THE DETAIL DP OF THE RESPECTIVE LOTS WHICH SHALL BE SUBMITTED AT A LATER STAGE.
7. REFUSE BIN CHARGING & LOADING/UNLOADING BAY SHALL BE PROVIDED TO MDPS REQUIREMENTS IN THE DETAIL DP OF THE RESPECTIVE COMMERCIAL LOTS.

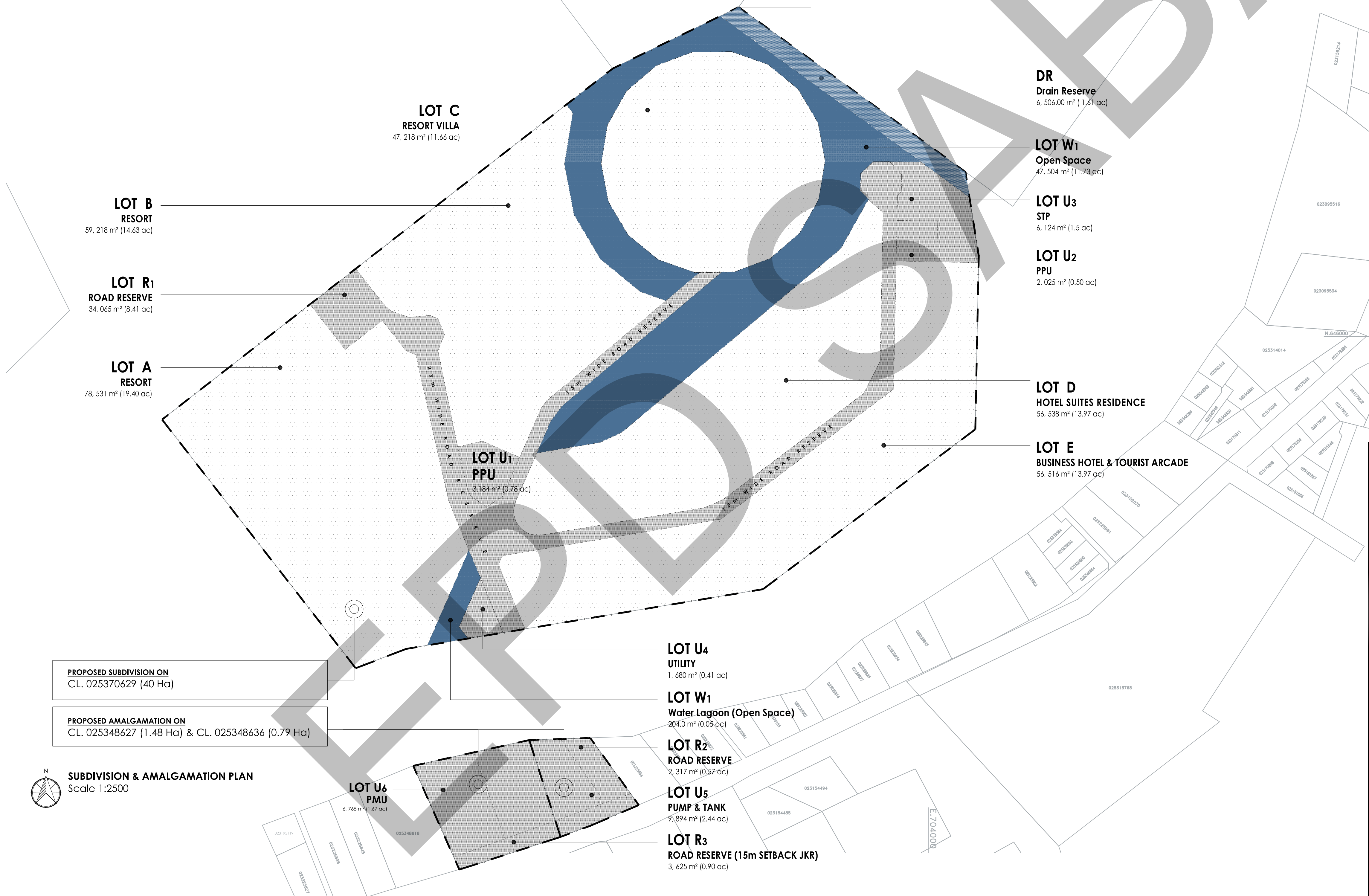




SECTION X-X
Scale 1:2500



SECTION Y-Y
Scale 1:2500



LEGEND	
	PROPOSED RESORT HOTEL
	PROPOSED RESORT HOTEL
	PROPOSED RESORT VILLA
	PROPOSED HOTEL SUITES RESIDENCE
	PROPOSED BUSINESS HOTEL & TOURIST ARCADE
	PROPOSED UTILITY
	WATER LAGOON / POOL
	ROAD RESERVE
	INTERNAL PAVED DRIVEWAY
	LANDSCAPE AREA
	GENERAL BOUNDARY
	PARCEL LOT BOUNDARY
	ROAD LINE
	ROAD LINE
	SEAWALL
	PROPOSED BEACH
	PROPOSED PLATFORM LEVEL

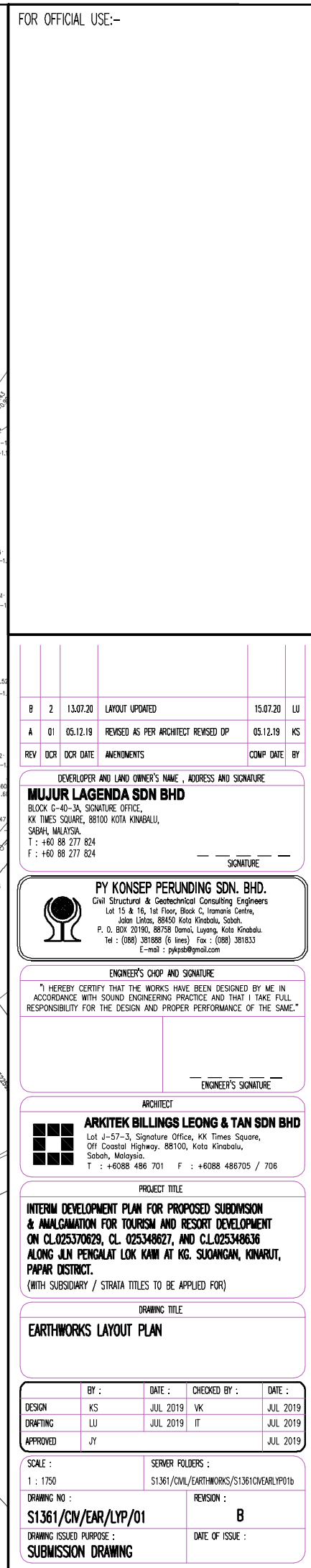
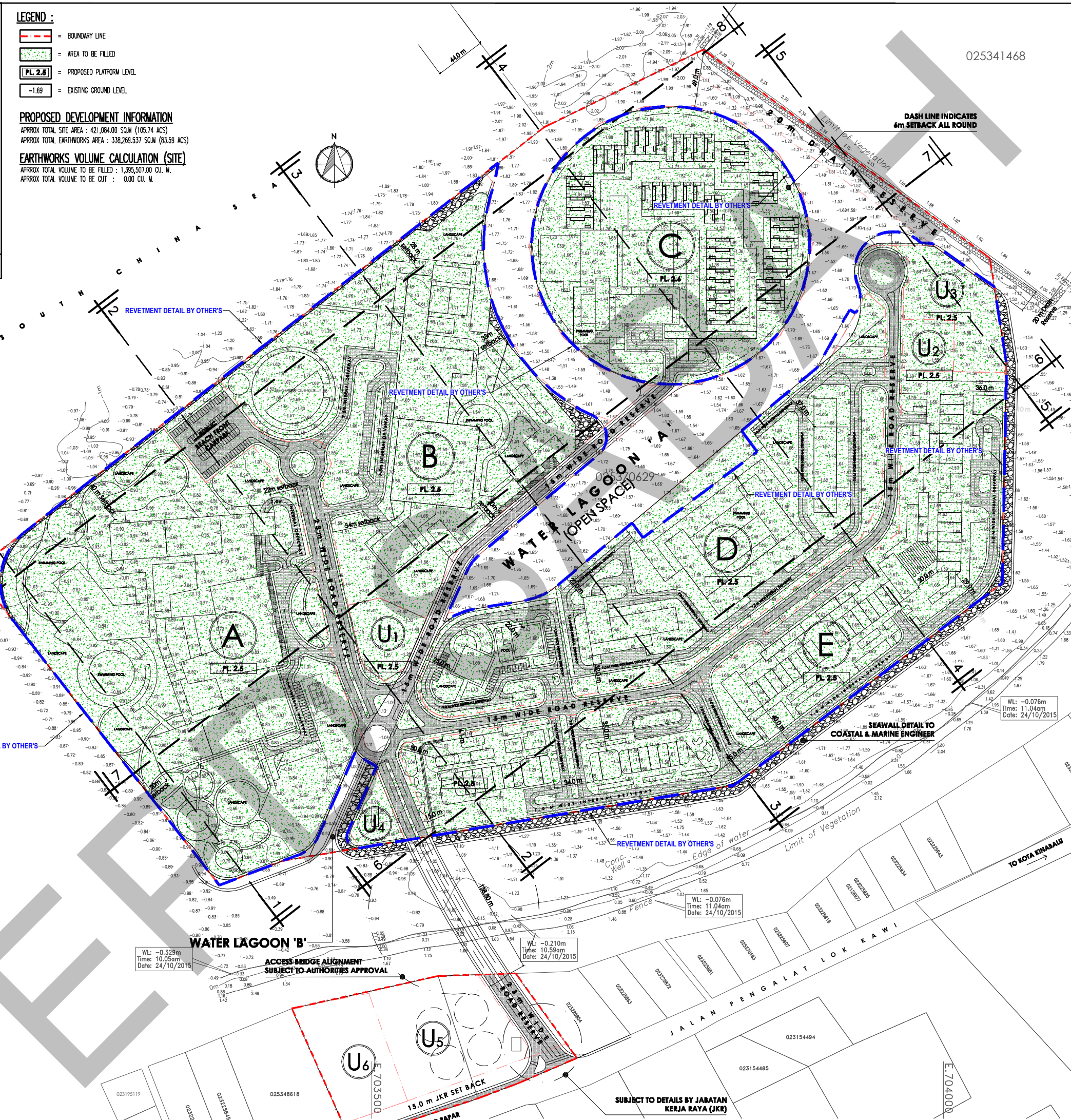
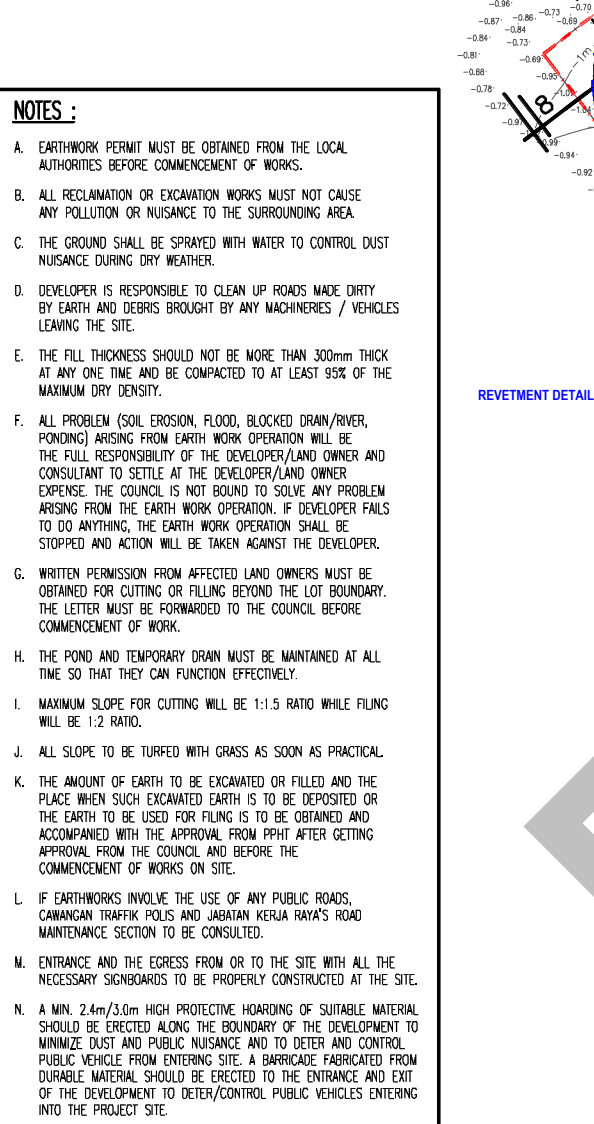
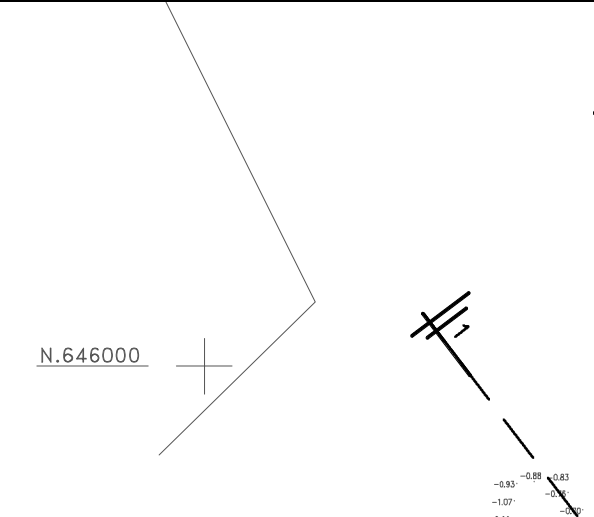
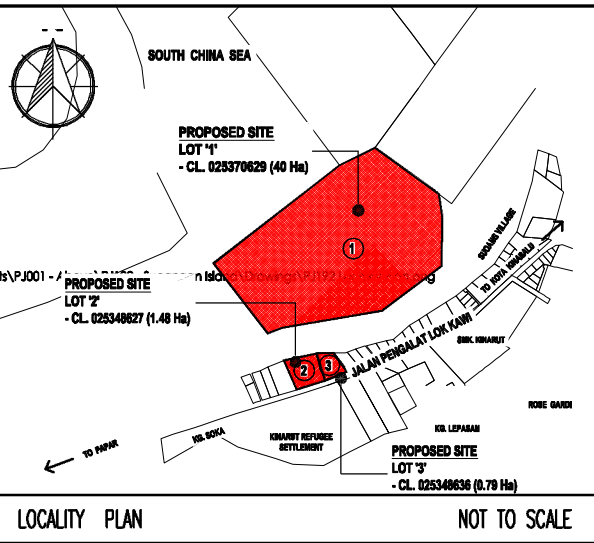
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DATE	REV.	REMARK		
APPROVAL REFERENCE				
Approval Reference:				
Office ref date	: n/a			
Office ref date	: n/a			
Office ref date	: n/a			
Civil & Structural Engineer :				
PY KONSEP PERUNDING SDN BHD				
Lot 15 & 16, 1st floor, Block C, Iraman Centre, Jalan Lintas, 88450 Kota Kinabalu, P.O. Box 20190, 88738 Luyang, Kota Kinabalu, SABAH, MALAYSIA				
T: +60 88 381 888				
F: +60 88 381 833				
Mechanical & Electrical Engineer :				
PROMES SDN BHD				
C-218, 2nd Flr, Block C, Lorong Inanam Kapitad 3, Inanam Kapitad, 88450 Kota Kinabalu, SABAH				
T: +60 88 426 973				
F: +60 88 426 973				
Quantity Surveyor :				
JUBM SDN BHD				
Suite 8A, 8th Floor, Wisma Pendidikan, Jalan Podang, P.O. Box 11598, 88817 Kota Kinabalu, SABAH				
T: +60 88 223 369				
F: +60 88 216 537				
Environmental Specialist :				
ENVOLVE SDN BHD				
1st Floor, No.3, Lorong Kilang F, Katombong, 88450 Kota Kinabalu, SABAH				
T: +60 88 388 791				
F: +60 88 388 792				
Hydro Specialist :				
SERUMPUN KONSULTANT SDN BHD				
G-11, Block G, Pinggiran Senibong, No. 1, Penarikan Senibong, Teluk Senibong (Senibong Cove) 81750 Aroas, JALOR				
T: +60 73 806 921				
F: +60 73 806 921				
Coastal & Marine Specialist :				
DHI WATER & ENVIRONMENT (M) SDN BHD				
11th Flr, Wisma Perindustrian, Jln Industri, Lintas, 88400 Kota Kinabalu, SABAH				
T: +60 88 260 780				
F: +60 88 260 781				
Traffic Engineer :				
GEO TRAFFIC ENGINEERING SDN BHD				
Lot 14, 2nd Flr, Block C, Iraman Centre, Jln Lintas, 88450 Kota Kinabalu, SABAH				
T: +60 88 387 133				
F: +60 88 387 233				
Developer & Land Owner :				
MUJUR LEGENDA SDN BHD				
Block C-40-3A, Signature Office, KK Times Square, 88100 Kota Kinabalu, Sabah, Malaysia				
T: +60 88 277 824				
F: +60 88 277 824				
Signature	Mr. Uau Tet Chung			
Name	Project Manager			
Position	781005-12-2003			
Architect :				
ARKITEK BILLINGS LEONG & TAN SDN BHD				
Lot J-57-3, Signature Office, KK Times Square, Off Coastal Highway, 88100, Kota Kinabalu, Sabah, Malaysia				
T : +6088 486 701				
F : +6088 486705 / 706				
Signature :				
NOTES :				
1. All dimensions shall be in meter.				
2. Developer shall be responsible to apply for strata titles.				
3. A single management corporation will be formed to manage the whole development.				
4. All Structural Drawings are to be read in conjunction with the Architectural Drawings. Any discrepancies must be brought to the attention of the Architect / Engineer immediately.				
THIS DRAWING IS THE PROPERTY OF ARKITEK BILLINGS LEONG & TAN SDN BHD. NO PART OF THE DRAWING MAY BE REPRODUCED IN ANY MANNER WHATSOEVER WITHOUT PERMISSION OF ARKITEK BILLINGS LEONG & TAN SDN BHD.				
Project Title:				
INTERIM DEVELOPMENT PLAN				
FOR PROPOSED SUBDIVISION & AMALGAMATION				
FOR TOURISM AND RESORT DEVELOPMENT ON				
CL.025370629, CL.025348627, AND				
CL.025348636 ALONG JLN PENGALAT LOK KAWI				
AT KG. SUOANGAN, KINARUT, PAPAR DISTRICT.				
(WITH SUBSIDIARY / STRATA TITLES TO BE APPLIED FOR)				
Drawn : CL	Design : JL/CL	Stage : MASTER DP		
Date : OCT. 2017	Checked : JL	Scale : As Shown		
Drawing Title:				
SECTION X-X, SECTION Y-Y & PROPOSED SUBDIVISION & AMALGAMATION PLAN				
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Revision No : PPJ47/DP/20171002				

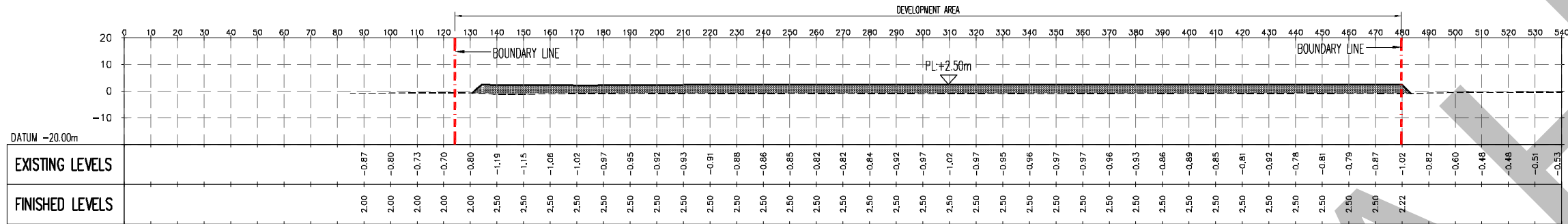
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ANNEX 1.2

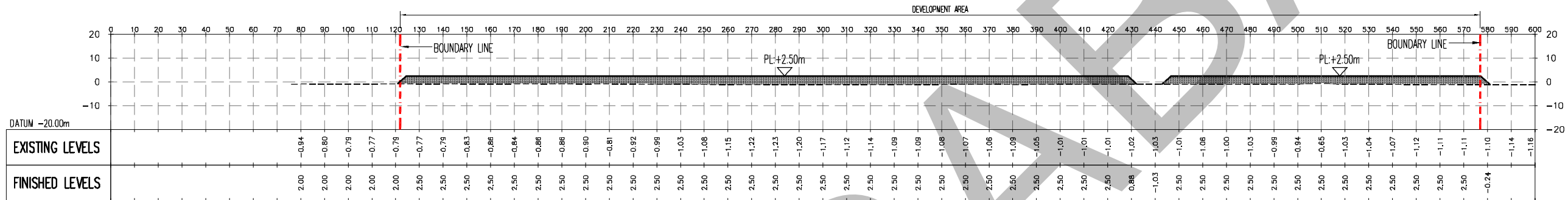
EARTHWORK PLAN AND CROSS-SECTION



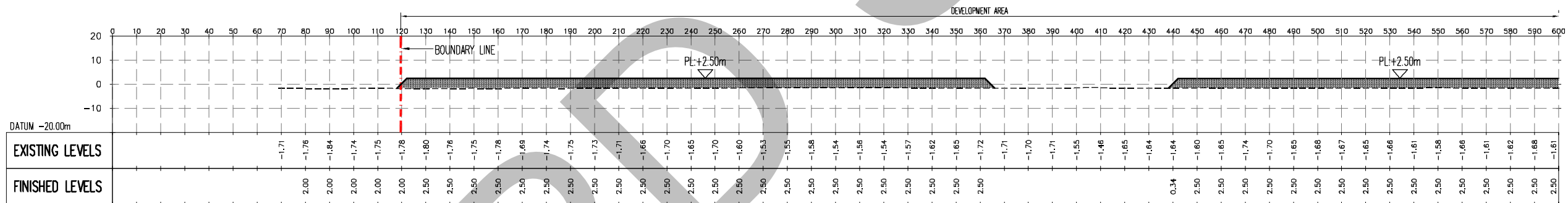
FOR OFFICIAL USE:-



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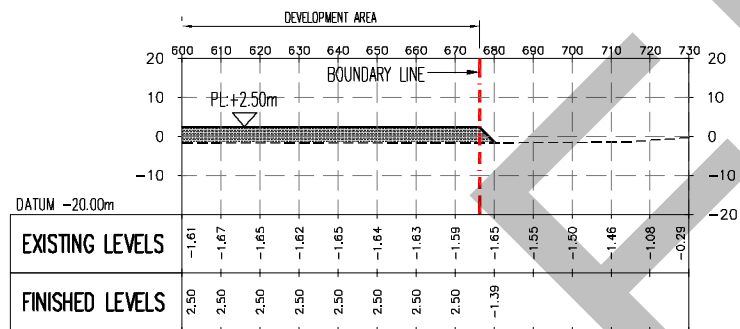


LOGITUDINAL SECTION OF EARTHWORKS (SECTION 2 - 2)



LOGITUDINAL SECTION OF EARTHWORKS (SECTION 3 - 3)

Cont. Below...



Cont. Above... LOGITUDINAL SECTION OF EARTHWORKS (SECTION 3 - 3)

A	2	13.07.20	SECTIONS UPDATED			15.07.20	LU
REV	DCR	DCR DATE	AMENDMENTS			COMP DATE	BY

DEVELOPER AND LAND OWNER'S NAME , ADDRESS AND SIGNATURE

MUJUR LAGENDA SDN BHD
BLOCK G-40-3A, SIGNATURE OFFICE,
KK TIMES SQUARE, 88100 KOTA KINABALU,
SABAH, MALAYSIA.
T : +60 88 277 824
F : +60 88 277 824

NATURE



PY KONSEP PERUNDING SDN. BHD.



Civil Structural & Geotechnical Consulting Engineers
 Lot 15 & 16, 1st Floor, Block C, Iramanis Centre,
 Jalan Lintas, 88450 Kota Kinabalu, Sabah.
 P. O. BOX 20190, 88758 Damai, Luyang, Kota Kinabalu.
 Tel : (088) 381888 (6 lines) Fax : (088) 381833
 E-mail : pykpsb@gmail.com

ENGINEER'S CHOP AND SIGNATURE

"I HEREBY CERTIFY THAT THE WORKS HAVE BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME."

ENGINEER'S SIGNATURE

ARCHITECT

ARKITEK BILLINGS LEONG & TAN SDN BHD
 Lot J-57-3, Signature Office, KK Times Square,
 Off Coastal Highway. 88100, Kota Kinabalu,
 Sabah, Malaysia.
 T : +6088 486 701 F : +6088 486705 / 706

PROJECT TITLE

INTERIM DEVELOPMENT PLAN FOR PROPOSED SUBDIVISION
& AMALGAMATION FOR TOURISM AND RESORT DEVELOPMENT
ON CL.025370629, CL. 025348627, AND CL.025348636
ALONG JLN PENGALAT LOK KAHN AT KG. SUJANGAN, KINARUT,
PAPAR DISTRICT.
(WITH SUBSIDIARY / STRATA TITLES TO BE APPLIED FOR)

TRAINING TITLE

LONGITUDINAL SECTION OF EARTHWORKS

	BY :	DATE :	CHECKED BY :	DATE :
DESIGN	KS	JUL 2019	VK	JUL 2019
DRAFTING	LU	JUL 2019	IT	JUL 2019
APPROVED	JY			JUL 2019

SCALE :

1 : 1000

DRAWING NO :

S1361/CN/EAR/DET/

DRAWING ISSUED PURPOSE :

SUBMISSION DRAWING

SERVER FOLDERS :

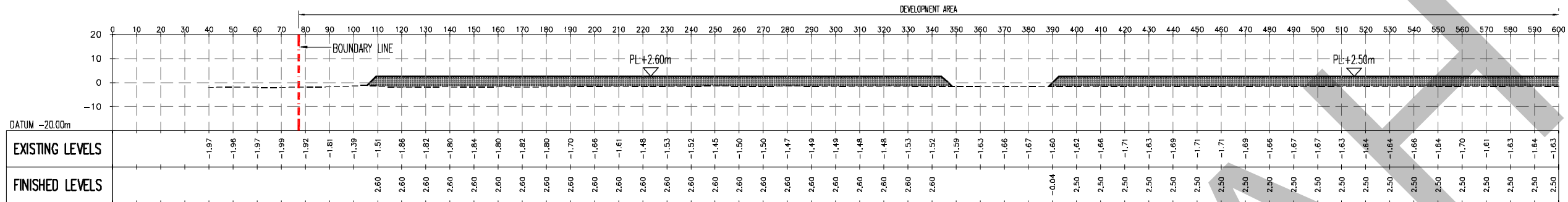
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REVISION :

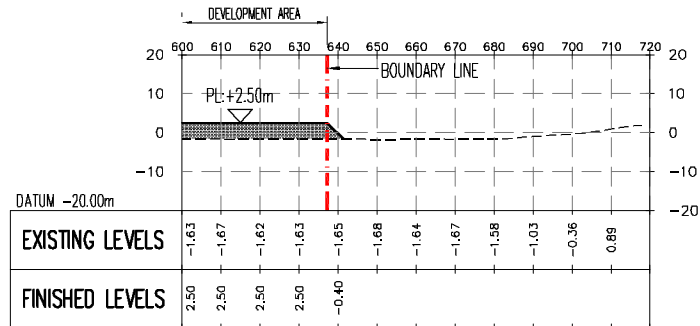
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DATE OF ISSU

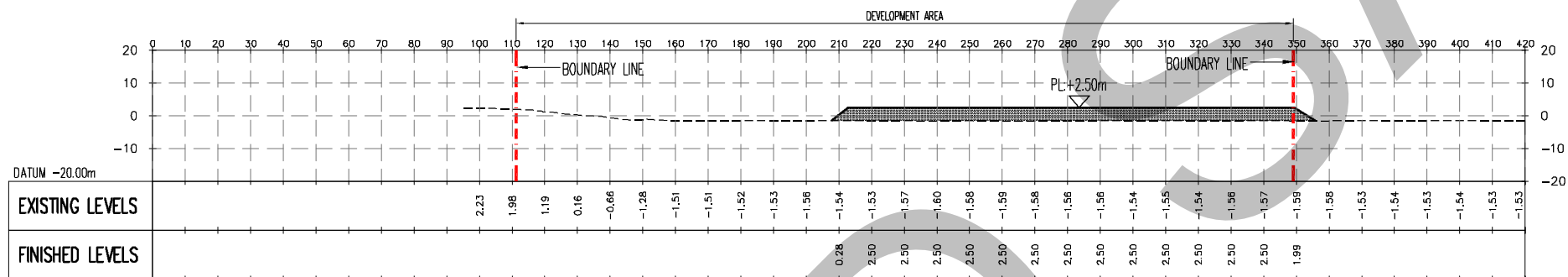
DATE OF ISSUANCE



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FOR OFFICIAL USE:-

REV	DCR	DCR DATE	AMENDMENTS	COMP DATE	BY

DEVELOPER AND LAND OWNER'S NAME, ADDRESS AND SIGNATURE

MUJUR LEGENDA SDN BHD
BLOCK G-40-3A, SIGNATURE OFFICE,
KK TIMES SQUARE, 88100 KOTA KINABALU,
SABAH, MALAYSIA.
T : +60 88 277 824
F : +60 88 277 824

SIGNATURE

PY KONSEP PERUNDING SDN. BHD.
Civil Structural & Geotechnical Consulting Engineers
Lot 15 & 16, 1st Floor, Block C, Imanis Centre,
Jalan Lintas, 88450 Kota Kinabalu, Sabah,
P. O. BOX 20190, 88758 Damai, Luyang, Kota Kinabalu.
Tel : (088) 381888 (6 lines) Fax : (088) 381833
E-mail : pykpsb@gmail.com

ENGINEER'S SIGNATURE

ENGINEER'S CHOP AND SIGNATURE

"I HEREBY CERTIFY THAT THE WORKS HAVE BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME."

ENGINEER'S SIGNATURE

ARCHITECT

ARKITEK BILLINGS LEONG & TAN SDN BHD
Lot J-57-3, Signature Office, KK Times Square,
Off Coastal Highway, 88100, Kota Kinabalu,
Sabah, Malaysia.
T : +6088 486 701 F : +6088 486705 / 706

PROJECT TITLE

INTERIM DEVELOPMENT PLAN FOR PROPOSED SUBDIVISION & AMALGAMATION FOR TOURISM AND RESORT DEVELOPMENT ON CL.025370629, CL. 025348627, AND CL.025348636 ALONG JLN PENGALAT LOK KAHN AT KG. SUANGGAN, KINARUT, PAPAR DISTRICT.
(WITH SUBSIDIARY / STRATA TITLES TO BE APPLIED FOR)

DRAWING TITLE

LONGITUDINAL SECTION OF EARTHWORKS

	BY :	DATE :	CHECKED BY :	DATE :
DESIGN	KS	JUL 2019	VK	JUL 2019
DRAFTING	LU	JUL 2019	IT	JUL 2019
APPROVED	JY			JUL 2019

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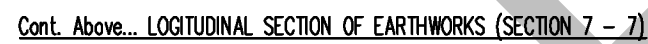
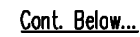
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DRAWING NO : S1361/CN/EAR/DET/02

REVISION :

DRAWING ISSUED PURPOSE : SUBMISSION DRAWING

DATE OF ISSUE :



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DRAWING ISSUED PURPOSE :	DATE OF ISSUE :
SUBMISSION DRAWING	

ANNEX 1.3

HYDROGRAPHICAL SURVEY PLAN

ANNEX 2.0

CORRESPONDENCES LETTERS FOR PROJECT STATUS

- 2.1 CORRESPONDENCE LETTERS FOR INTERIM DEVELOPMENT PLAN
- 2.2 CORRESPONDENCE LETTERS FOR DRAINAGE PLAN AND MSMA REPORT CONDITIONAL
- 2.3 CORRESPONDENCE LETTERS FOR HYDRAULIC STUDY

ANNEX 2.1

CORRESPONDENCE LETTERS FOR INTERIM DEVELOPMENT PLAN

Tel. No. 088 - 222337/222336/
222031/218201

Fax. No. 088 - 222557/215682



JABATAN PERANCANG BANDAR DAN WILAYAH
NEGERI SABAH
Tingkat 3, 4 dan 5, Menara SDB
Blok B, Wisma Tun Fuad Stephens
Km. 2,4, Jalan Tuaran
88646 Kota Kinabalu
Sabah, Malaysia

Rujukan : JPBW. 02/04/1499(62)
Tarikh : 2 April 2019

Pegawai Eksekutif,
Majlis Daerah Papar,
Peti Surat No. 177,
89608 PAPAR

Tuan,

Interim Development Plan For Proposed Subdivision & Amalgamation For Tourism And Resort Development On CL. 025370629, CL. 025348627 And CL. 025348636 Along Jln Pengalat Lok Kawi At. Kg Suoangan, Kinarut, Papar District. (with Subsidiary/ Strata Titles To Be Applied For)

Pemohon : Mujur Lagenda Sdn. Bhd
Perunding : Akitek Billings Leong & Tan Sdn Bhd
Lukisan : KK/974/DP/01
Ruj. JPBW : 02/04/1499
Ruj. PBT : MDPPR-1/32/2017
Luas : 105.58 ekar
Zon : Draf Pelan Tempatan Kinarut : Zon Park, Recreation & Tourism Area
No. Minit : 3/2019 – 7.5

Dengan hormatnya perkara di atas dirujuk.

2. Sila maklum bahawa cadangan di atas telah dibincang di dalam mesyuarat Lembaga Pusat Perancang Bandar dan Desa No.3/2019 pada 21 Mac 2019 yang lalu.

3. Sukacita dimaklumkan bahawa permohonan pihak tuan untuk Kelulusan Pembangunan Interim telah diberi kelulusan tertakluk kepada pematuhan syarat-syarat teknikal yang ditetapkan oleh Pihak Berkuasa Tempatan yang berkenaan dan Jabatan-jabatan Teknikal yang berkaitan.

4. Kelulusan Pembangunan Interim ini bertujuan untuk memudahkan proses penukaran syarat kegunaan tanah ke atas hakmilik yang dirujuk di atas;

5. Pembangunan pada masa hadapan haruslah mengikuti "*conceptual design*" dan ketumpatan (bagi setiap kegunaan yang berkaitan) yang telah ditetapkan dalam Taklimat Perancangan/Pelan Rangkaian di atas;

6. Kelulusan Pembangunan Interim ini hanya akan berkuatkuasa sepenuhnya setelah kebenaran merancang (*Planning Permission*) diperolehi dan pemohon mematuhi semua undang-undang yang berkuatkuasa atau digubal daripada semasa ke semasa termasuk Ordinan Tanah (Cap 68), Ordinan Perancangan Bandar dan Desa (Cap 141) dan Ordinan Kerajaan Tempatan 1961;

2/.....

JANGAN TERJERUMUS KE DALAM PERANGKAP DADAH

Rujukan : JPBW. 02/04/1499(62)
Tarikh : 2 April 2019

7. Maklumat di dalam surat ini tidak boleh digunakan sebagai ketetapan nilai tanah untuk apa jua tujuan termasuk pengiraan pampasan pengambilan tanah secara wajib di bawah Ordinan Pengambilan Tanah (Cap 69); dan
8. Kelulusan Pembangunan Interim ini adalah sah bagi tempoh yang tetap iaitu selama dua (2) tahun daripada tarikh surat ini. Sila ambil perhatian bahawa setelah tempoh yang ditetapkan telah tamat, kelulusan ini akan luput sama sekali.
9. Selanjutnya sila maklum bahawa:
 - a) Pemaju bertanggungjawab memastikan/menyelesaikan isu bahawa pelaksanaan projek pembangunan hendaklah bebas daripada sebarang masalah (*free from encumbrance*) termasuk jalan masuk (*access road*) ke tapak projek, sistem perparitan sekeliling tapak, bantahan penduduk dan lain-lain;
 - b) Selaras dengan prosedur JKM.100-4/62 bertarikh 01 Jun 2017 berkenaan, Pelan Pembangunan dan Pelan Bangunan hendaklah diproses untuk kelulusan dalam tempoh tiga (3) bulan mulai dari tarikh surat kelulusan IDA (Interim Development Approval) diberikan;
 - c) Sekiranya semua syarat-syarat teknikal berkaitan dan ketetapan Lembaga Pusat tidak dipatuhi, dan pelan pembangunan tidak selaras dengan kelulusan Pembangunan Interim maka kebenaran ini adalah terbatal dengan sendirinya dan pemohon perlu mengemukakan permohonan baru;
 - d) Sebarang pindaan ke atas pelan pembangunan yang telah diluluskan perlu dikemukakan semula kepada Lembaga Pusat Perancang Bandar dan Desa sebelum diputuskan oleh pihak YBhg. Datuk; dan
 - e) Di bawah Seksyen 15(3) Ordinan Perancang Bandar dan Desa, Lembaga Pusat berhak untuk memberikan syarat-syarat tambahan pada bila-bila masa jika perlu.
10. Bersama-sama ini disertakan Sijil Kelulusan Interim Siri No. **JPBW/MDPPR/PRT/0001** berserta pelan interim yang telah disahkan (*endorsed*) untuk simpanan dan rujukan pihak tuan.
11. Sukacita kiranya pihak tuan dapat melaksanakan tindakan susulan yang sewajarnya berhubung dengan keputusan Lembaga di atas. Sila juga kemukakan salinan pelan pembangunan yang telah mematuhi semua syarat-syarat teknikal dan telah diendos oleh Majlis tuan kepada jabatan ini untuk simpanan dan rujukan.

Sekian, terima kasih.

*** BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH ***

Saya yang menjalankan amanah.




(TPr. HAJI MURSIDI HAJI SAPIÉ)

Ketua Pegawai Eksekutif

Lembaga Pusat Perancang Bandar dan Desa

3/.....



JANGAN TERJERUMUS KE DALAM PERANGKAP DADAH

Rujukan : JPBW. 02/04/1499(62)
Tarikh : 2 April 2019

Sk. Pengerusi,
Lembaga Pusat Perancang Bandar dan Desa,
Kementerian Kerajaan Tempatan dan Perumahan,
Wisma Innorprise, Jalan Sulaman, Teluk Likas,
KOTA KINABALU.

Arkitek Billings Leong & Tan Sdn Bhd
Lot J-57-3, Signatire Office,
KK Times Square, Off Coastal Highway,
88100 KOTA KINABALU



MHS/NH/st

JANGAN TERJERUMUS KE DALAM PERANGKAP DADAH

Tel. No. 088 - 222337/222336/
222031/218201

Fax. No. 088 - 222557/215682



**JABATAN PERANCANG BANDAR DAN WILAYAH
NEGERI SABAH**

Tingkat 3, 4 dan 5, Menara SDB
Blok B, Wisma Tun Fuad Stephens
88646 Kota Kinabalu
Sabah, Malaysia

Rujukan : JPBW: 02/04/1499 ()
Tarikh : 09hb Julai 2020

Pegawai Eksekutif
Majlis Daerah Papar
Peti Surat No. 177
89608 PAPAR

Tuan,

**INTERIM DEVELOPMENT PLAN FOR PROPOSED SUBDIVISION & AMALGAMATION FOR
TOURISM AND RESORT DEVELOPMENT ON CL.025370629, CL.025348627 AND CL.025348636
ALONG JALAN PENGALAT LOK KAWI AT KG. SUOANGAN, KINARUT, PAPAR DISTRICT. (WITH
SUBSIDIARY/STRATA TITLES TO BE APPLIED FOR)**

PEMOHON : MUJUR LAGENDA SDN. BHD.

PERUNDING : AKITEK BILINGS LEONG & TAN SDN. BHD.

RUJ. PBT : MDPPR-1/32/2017

NO. LUKISAN : KK/974/DP/01

ZON : PARK, RECREATION & TOURISM AREA – DRAF PELAN TEMPATAN KINARUT

Dengan hormatnya perkara di atas dirujuk.

2. Untuk makluman tuan, merujuk kepada surat daripada Lembaga Pusat ruj: JPBW.02/04/1499(62) bertarikh 2hb April 2019, Kelulusan Pembangunan Interim tersebut di atas telah pun diberi kelulusan tertakluk kepada pematuhan syarat-syarat teknikal yang ditetapkan oleh Pihak Berkuasa Tempatan yang berkenaan dan Jabatan-jabatan Teknikal yang berkaitan.

3. Walau bagaimanapun, surat Jabatan Perlindungan Alam Sekitar ruj: JPAS/PP/PPR/600-1/08/1/163 (28) bertarikh 14 November 2019 berkenaan dengan pematuhan kepada Pelan Pengurusan Pesisiran Pantai Sabah (SMP) perlulah diambil kira apabila Majlis tuan memberi pertimbangan selanjutnya ke atas cadangan ini.

Sekian, terima kasih.

*** BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH ***

(BERNADETTE C EDMUND)

Setiausaha

Majlis Perancang Negeri

BCE/DFM/dfm

../2

JANGAN TERJERUMUS KE DALAM PERANGKAP DADAH

Rujukan : JPBW: 02/04/1499 ()
Tarikh : 09hb Julai 2020

(2)

s.k. Pengerusi
Majlis Perancang Negeri
Merangkap Menteri Kerajaan Tempatan dan Perumahan
Sabah

Pengarah
Jabatan Perlindungan Alam Sekitar
Tingkat 1 – 3, Wisma Budaya,
Jalan Tunku Abdul Rahman
Beg Berkunci 2078
88999 KOTA KINABALU

JANGAN TERJERUMUS KE DALAM PERANGKAP DADAH

NO. TEL : 088-911 094
NO. FAKS : 088-913 608
RUJ. KAMI : MDPPR.600-1/32/2017(57)
TARIKH : 15 DISEMBER 2021



MAJLIS DAERAH PAPAR,
PETI SURAT 177,
89608 PAPAR,
SABAH. MALAYSIA

Arkitek:

Arkitek Billings leong & Tan Sdn. Bhd.,
Lot J-57-3, Signature Office,
KK Times Square, Off Coastal Highway,
88100 KOTA KINABALU
Tel: 088-486 701 Faks: 088-486 705/ 706

Pemaju:

Mujur Lagenda Sdn. Bhd.,
Block G-40 3A, Signature Office, KK Times Square,
88100 KOTA KINABALU

Tuan,

**PENYAMBUNGAN TEMPOH KELULUSAN PELAN PEMBANGUNAN
BERSYARAT.**

**PROJEK: INTERIM DEVELOPMENT PLAN FOR PROPOSED SUBDIVISION
AND AMALGAMATION FOR TOURISM AND RESORT
DEVELOPMENT ON CL. 025370629, CL. 025348627 AND
CL. 025348636 ALONG JALAN PENGALAT LOK KAWI AT
KG. SUOANGAN, KINARUT, PAPAR DISTRICT (WITH
SUBSIDIARY/ STRATA TITLES TO BE APPLIED FOR).**

NO. PELAN: KK/974/DP01 & KK/974/DP/02

Dengan hormatnya saya merujuk Mesyuarat Jawatankuasa Perancang bandar dan
Pelan Bangunan kali keempat yang diadakan pada 14 Disember 2021.

2. Dimaklumkan bahawa Jawatankuasa telah memutuskan untuk meluluskan
penyambungan tempoh kelulusan pelan pembangunan bagi cadangan di atas
tertakluk kepada mematuhi syarat-syarat berikut:

2.1 Mematuhi kesemua komen daripada Jabatan Penasihat Teknikal
Majlis Daerah Papar melalui rujukan surat-surat berikut:

- Jabatan Perancang Bandar dan Wilayah, KK rujukan:
JPBW:02/04/1499() bertarikh 09 Julai 2020;
- Jabatan Bomba dan Penyelamat Malaysia, Negeri Sabah, KK
rujukan: JBPM/SB/BKK:700-2/1/1/2458() bertarikh 07 November
2019;

...2/-

“SABAH MAJU JAYA”

- Pengarah Kerja Raya, Ibu Pejabat, KK rujukan: JKR.PKT:(DP)200-1/(03)/1(499)/23 bertarikh 16 November 2020;
- Jabatan Alam Sekitar, KK rujukan: ASSH(B)91/110/907/020 jld. 23(7) bertarikh 08 Julai 2019;
- Jabatan Perlindungan Alam Sekitar, KK rujukan: JPAS/PP/13/600-2/01/13/KLT.5(25) bertarikh 28 Oktober 2021;
- Jabatan Air, Gaya Park, KK rujukan: JAN.KK:600-1/(XIII)/185-2 bertarikh 19 Ogos 2019;
- Jabatan Pengairan dan Saliran, Papar rujukan: JPS(PPR)200-3/2/19/2019(7) bertarikh 16 Julai 2019;
- Sabah Electricity Sdn. Bhd., Papar rujukan: SESB/ PPR/MDP. 29/05/09 bertarikh 27 Mei 2019;
- Pejabat Kesihatan Papar, Papar rujukan: PKPR/KAS/DP/19/13 bertarikh 29 Mei 2019;
- Jabatan Tanah dan Ukur, KK; dan
- Pejabat Tanah Daerah, Papar.

2.2 Mengemukakan pelan-pelan berikut untuk pemeriksaan dan kelulusan:

- Pelan bangunan;
- Pelan Perparitan dan laporan;
- Pelan Landskap;
- Pelan Jalanraya;
- Pelan Pembentungan (paip pembentung jenis 'clay pipe' harus digunakan);
- Pelan M & E;
- Pelan Bekalan Air;
- Pelan Kerja Tanah dan Butiran Pengiraan; dan
- Pelan Struktur dan Butiran Pengiraan.

2.3 Pejabat ini mencadangkan agar pihak tuan dapat melaksanakan *Energy Efficiency (EE)* dan *Renewal Energy (RE)* dalam cadangan pembangunan.

2.4 Pelan Akhir (*As-Built Plan*) selepas pembinaan perlu dikemukakan apabila permohonan Sijil Layak Menduduki dibuat.

...3/-

“SABAH MAJU JAYA”

- 2.5 Dinding penghadang hendaklah dibina di sekeliling tapak cadangan sebelum kerja-kerja pembinaan dilaksanakan dan memasang Papan Tanda Kenyataan Projek Pembangunan dengan menyatakan Rujukan Surat Kelulusan.
- 2.6 Kelulusan tempoh penyambungan pelan pembangunan ini berkuatkuasa selama **dua (2) tahun**, bermula dari tarikh pelan diluluskan oleh Jawatankuasa Perancang Bandar dan Pelan Bangunan.
- 2.7 Kerja-kerja pembinaan tidak boleh dimulakan selagi perkara-perkara **2.1 dan 2.2** tidak dipatuhi.
- 2.8 Sila maklum bahawa surat pejabat ini, rujukan: **MDPPR.600-1/32/2017(22)** bertarikh **18 April 2019** adalah berkaitan dan masih berkuatkuasa.

3. Sila maklum bahawa, sebarang pindaan ke atas pelan yang telah diluluskan perlu dikemukakan semula ke pejabat ini untuk kelulusan.

4. Sijil Layak Menduduki tidak akan dikeluarkan sekiranya semua komen Jabatan Penasihat Teknikal tidak dilaksanakan di dalam cadangan pembangunan.

... 5. Bersama-sama ini dikembalikan **lima (5)** set pelan pembangunan, bernombor: **KK/974/DP01 & KK/974/DP/02** yang telah diendos untuk keperluan dan tindakan pihak tuan selanjutnya.

“BERKHIDMAT UNTUK NEGARA”

Saya yang menjalankan amanah.



[AHMAD JALUDIN BIN ABD KARIM]
Pegawai Eksekutif
Majlis Daerah Papar

AJAK/-

“SABAH MAJU JAYA”

ANNEX 2.2

CORRESPONDENCE LETTERS FOR DRAINAGE PLAN AND MSMA REPORT CONDITIONAL



PY KONSEP PERUNDING SDN. BHD.

Civil Structural & Geotechnical Consulting Engineers (Co.No.150165-U) GST ID : 00080076800

Lot 15 & 16, 1st Flr, Blk C, Iramanis Centre, Jln Lintas, 88450 Kota Kinabalu, Sabah. P.O.Box 20190, 88758 Damai Luyang, Kota Kinabalu, Sabah.
T : 088 381 888 | F : 088 381 833 | E : pykpsb@gmail.com | W : www.pykonsep.com.my



RUJ. KAMI : PJ192-VK-ks-MDP-2019-001-L

TARIKH : 01st July 2019

Pegawai Kerja
Majlis Daerah Papar
Peti Surat 177
89608 Papar.

Tuan,

PROJEK : PROPOSED SUBDIVISION & AMALGAMATION FOR TOURISM AND RESORT DEVELOPMENT ON CL.025370629, CL. 025348627, AND CL. 025348636 ALONG JLN PENGALAT LOK KAWI AT KG. SUOANGAN, KINARUT, PAPAR DISTRICT.

PEMAJU : MUJUR LAGENDA SDN BHD.

RE : Submission of Drainage Plan & Report. (MSMA Report)

Kami adalah perunding saliran bagi projek tersebut di atas.


Dengan segala hormatnya kami merujuk tuan berhubung dengan perkara tersebut di atas.

Bersama-sama surat ini disertakan dokumen-dokumen berikut untuk pertimbangan dan kelulusan tuan selanjutnya:-

1. Empat (4) set pelan saliran
(PJ192/CIV/DRA/LYP/01, PJ192/CIV/DRA/DET/01);
2. Empat (4) set laporan saliran MSMA.

Sekian dan terima kasih.

Yang benar,
PY KONSEP PERUNDING SDN. BHD.


.....
Ir. Victor Koh
Pengarah

s.k. Mujur Lagenda Sdn Bhd



**JABATAN PENGAIRAN DAN SALIRAN
PAPAR**

**Km. 1, Jalan Papar Lama
Peti Surat 149
89608 Papar
Sabah, Malaysia.**



**Telefon : 088-913539
No. Faks : 088-913578
E-mail : jpsppr1.@tm.net.my**

Rujukan Tuan : MDPPR.600-1/32/2017(32) bertarikh 11 JULAI 2019
Rujukan Kami : JPS(PPR)200-3/2/19/2019 (7)
Tarikh : 16 JULAI 2019

Pegawai Eksekutif,
Majlis Daerah,
Peti Surat 177,
89608 PAPAR, SABAH.

Tuan,

PROPOSED SUBDIVISION AND AMALGAMATION FOR TOURISM AND RESORT DEVELOPMENT ON CL. 025348627, CL.025348627 AND CL.025348636 ALONG JALAN PENGALAT LOK KAWI AT KG. SUOANGAN, KINARUT, PAPAR DISTRICT

- SUBMISSION OF DRAINAGE PLAN & REPORT (MSMA REPORT)
- DWG. NO : PJ192/CIV/DRA/LYP/01 & PJ192/CIV/DRA/DET/01
- SEMAKAN PELAN KALI PERTAMA

Dengan segala hormatnya, surat tuan berujuk dan berhubung dengan perkara seperti tersebut di atas adalah dirujuk.

2. Untuk makluman tuan, setelah semakan dibuat terhadap pelan saliran tersebut didapati perunding perlu membuat penambahbaikan terhadap perkara berikut:-

- a. Sila kemukakan dengan terperinci analisa "back water" dalam laporan pelan saliran.
- b. Sila tunjukkan dengan terperinci dalam laporan pelan saliran "Highest Astronomical Tide" (HAT) bagi cadangan pembangunan tersebut.
- c. Kaedah dan jadual penyelenggaraan (Operation and Maintenance) haruslah dicetak pada setiap pelan saliran dan laporan untuk memudahkan rujukan.
- d. Rekabentuk kecerunan parit hendaklah mengambilkira ketetapan jabatan ini iaitu minimum 1:400.
- e. Sila semak semula dan tunjukkan aras parit (Invert Level) bagi setiap parit hingga ke "outlet". Kemukakan semula dalam laporan pelan saliran.

3. Oleh kerana ulasan ini mungkin tidak komprehensif, maka pihak perunding boleh berhubung dengan Jabatan ini untuk keterangan lanjut. Kelulusan permohonan laporan pelan saliran ini tidak hanya tertakluk kepada ulasan di atas tetapi tertakluk kepada keputusan Mesyuarat Jawatankuasa Pelan Saliran Jabatan Pengairan Dan Saliran Negeri Sabah.

Sekian dan terima kasih.

"BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH"

Saya yang menandatangani amarah,

[ABDUL RAHIM BIN ABDUL RAHMAN]
Jurutera Daerah Kanan,
Jabatan Pengairan dan Saliran,
PAPAR

s.k PY Konsep Perunding Sdn. Bhd.
P. O. Box 20190
88758 Damai Luyang
Kota Kinabalu
[Tel: 088-381888 & Faks: 088-381833]

SP/sp ..

JAYAKAN PERKHIDMATAN SEMPURNA

ANNEX 2.3

CORRESPONDENCE LETTERS FOR HYDRAULIC STUDY

Department of Irrigation and Drainage
Level 5, Wisma Pertanian Jalan Tasik Luyang
Off Jalan Maktab Gaya Locked Bag 2052,
88767 Kota Kinabalu, Sabah.



DHI Water & Environment (M) Sdn. Bhd.
(535484-V)
11th Floor, Wisma Perindustrian,
Jalan Istiadat,
Likas,
88400 Kota Kinabalu, Sabah
Malaysia

Tel: +60 88 260780
Fax: +60 88 260781

dhi@dhi.com.my
www.dhi.com.my

Att: Dr Ir. Michael Tay
Flood Mitigation, River and Coastal Engineering Section

Ref:
62801567 -LET-003-AAL

Date:
09 Oct 2019

Submission of the Hydraulic Report for the Proposed Tourism and Recreation Resort Development at Kg. Suoangan, Kinarut, Papar District

Dear Dr Ir. Tay,

We are pleased to submit herewith five (5) hardcopies of our final hydraulic report for the above-mentioned study and a DVD of the model setup inclusive digital copy of the report for your departmental processing and approval.

Note that this report presents the findings of the hydraulic studies for the latest development plan for the proposed project, provided to DHI by the Client (Mujur Lagenda Sdn Bhd) on 2nd Aug 2019. The findings outlined in this report shall supersede an earlier hydraulic report that was submitted to DID Sabah on 29th May 2019.

Thank you for your time.

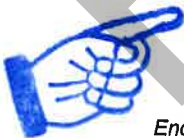
Yours sincerely,

DHI Water & Environment (M) Sdn. Bhd.

Aaroun Leiking
Hydraulic Engineer, Coastal and Marine Department

Cc: **Mr. Vincent Liao**
Mujur Lagenda Sdn Bhd
Block G40-3A, Signature Office,
KK Times Square, 88100 Kota Kinabalu,
Sabah.

Encls: 1 Hardcopy of the Final Report





JABATAN PENGAIRAN DAN SALIRAN
(Department of Irrigation and Drainage)
Kementerian Pertanian dan Industri Makanan
Aras 5, Wisma Pertanian Sabah
Jalan Tasik, Luyang
Off Jalan Maktab Gaya
Beg Berkunci 2052
88767 KOTA KINABALU



<http://www.did.sabah.gov.my>

Tel: +6088280500

Fax: +6088242770

email: did@sabah.gov.my

Rujukan Kami: JPS(SAB)1000-0/3 ()

Tarikh: 17 December 2019

Managing Director
DHI Water & Environment (M) Sdn Bhd.
11th Floor, Wisma Perindustrian,
Jalan Istiadat, Likas,
88400 Kota Kinabalu,

Attn : Mr Aaroun Leiking

Sir,

Comments on the Submission of the Hydraulic Report for the Proposed Tourism and Recreation Resort Development at Kg. Suoangan, Kinarut, Papar District

We refer to your report submission REF: 62801567-I.ET-003-AAL dated 09 OCT 2019 regarding the above matter.

02. Please be informed that this department has the following comment on the Hydraulic Report submitted.

- I. The overall concept of the coastal protection as what we have made to understand is by rock revetment hence the lack in public open space/ i.e beaches is of great concern.
- II. According to the findings, there will be a noticeable change in water quality concentration profile which may result in the deterioration of the existing beachfront landwards.
- III. The optimisation of the land plot is of concern especially in the aspect of current speed which may result in an overall increase in sedimentation behaviour in the vicinity of the land reclamation.
- IV. According to the hydraulic guideline, a clear reclamation method is not clearly shown as well as the monitoring procedure pre, during and post reclamation. This will have to be an effort between the design engineer and the hydraulic assessment team.

03. Please kindly address the comment accordingly and re-submit the revised hydraulic study report to the department.

Thank You.

"BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH"

Saya yang menurut perintah,

(~~HR. SIRAJ BASHORA~~)
Ketua Penolong Pegarah Kanan
Bahagian Tebatan Banjir dan Pantai
Jabatan Pengairan dan Saliran Sabah

MT/LCS/SB

C.c.
Project Proponent
Mujur Lagenda Sdn. Bhd.
Block G40-3A, Signature Office,
KK Times Square,
88100 Kota Kinabalu.

JABATAN PENGAIRAN DAN SALIRAN
(Department of Irrigation and Drainage)
Kementerian Pertanian dan Industri Makanan
Aras 5, Wisma Pertanian Sabah,
Jalan Tasik, Luyang,
Off Jalan Maktab Gaya,
Beg Berkunci 2052,
88767 Kota Kinabalu, SABAH.



DHI Water & Environment (M) Sdn. Bhd.
(535484-V)
11th Floor, Wisma Perindustrian,
Jalan Istiadat,
88400 Kota Kinabalu, Sabah
Malaysia

Tel: +60 88 260780
Fax: +60 88 260781

dhikk@dhigroup.com
www.dhi.com.my

Att: Ir. Siraja Bashora

Ref:
62801567-LET-AAL-004

Date:
14 January 2020

Response to DID's Comments on the Submission of the Hydraulic Report for the Proposed Tourism and Recreation Resort Development at Kg. Suoangan, Kinarut, Papar District

Dear Ir. Siraja Bashora,

The draft final report of the hydraulic study findings for the proposed tourism and recreation resort development at Kg. Suoangan was submitted to DID Sabah on the 9th of October 2019, followed by a presentation on the 29th of November 2019 at DID Sabah Headquarter. Subsequently, based on the discussion between DID Sabah, Mujur Lagenda and DHI, DID Sabah issued a letter on 17th of December 2019 (Ref: JPS(SAB)1000-0/3) with the following comments which are to be addressed by the Project Proponent and Hydraulic Consultant.

This letter addresses the comments as outlined below for your review and approval. The responses outlined in this letter shall supersede an earlier letter that was submitted to DID Sabah on 10th of January 2020.

Note that comments by DID Sabah are in bold whilst the responses from the Project Proponent and Hydraulic Consultant are in italic. Once approved, a revised hydraulic study report with the addressed comments will be submitted to your office.

- **The overall concept of the coastal protection as what we have made to understand is by rock revetment hence the lack in public open space/ i.e. beaches is of great concern**
 - *Based on a meeting with EPD on 19th of July 2019, it was informed that the proposed development is to be within the project boundary. The Project Proponent informed that the interim DP without beach, submitted to the Central Town and Country Planning Board has been approved.*
 - *As discussed during the meeting on 29th November 2019, this is considered a planning issue more than a hydraulic issue.*
- **According to the findings, there will be a noticeable change in water quality concentration profile which may result in the deterioration of the existing beach front landwards**
 - *At present, the water quality in the existing canal between the reclamation to the north of the site and the mainland is known to have less than ideal water quality due to wastewater discharge into the canal.*
 - *Based on model predictions, with the development in place, re-circulation of the water inside the channel system may lead to a reduction in flushing and moderately increase existing water quality issues. The new extended canal will tend to flush polluted water towards the Kinarut beach. Water quality was predicted to be within the threshold (National Water Quality Standards for Malaysia) despite the longer flushing time.*

- Ideally, the water quality issues should be resolved at source, but this is outside the boundaries and the scope of the proposed project.
- **The optimization of the land plot is of concern especially in the aspect of current speed which may result in an overall increase in sedimentation behaviour in the vicinity of the land reclamation**
 - Due to the anticipated increase in current speed along the waterway between the reclamations, preventive measures against scour of revetment structures are recommended. It is anticipated that with the increase in current speed, sedimentation around the proposed reclamation is expected to reduce.
 - A slow formation of a sand spit near the southern end of the proposed is anticipated. Consequently, it is recommended to monitor the spit formation e.g. yearly to avoid the impediment of the waterway due to sedimentation. Meanwhile, the existing sand spit is expected to be pushed southward over time.
 - With the relatively low concentrations of suspended sediment in the ambient water, it is anticipated that the siltation rates within the sheltered internal waterways will be low.
- **According to the hydraulic guideline, a clear reclamation method is not clearly shown as well as the monitoring procedure pre, during and post reclamation. This will have to be an effort between the design engineer and the hydraulic assessment team**
 - At the EIA stage, the exact construction methodology will normally be unknown as this will depend on the equipment and adopted methodology and schedule by the contractor to be appointed.
 - An area approximately 33.83 ha will be reclaimed, requiring an estimated of 1,395,507 m³ of fill material from a borrow site. Based on the overall planning, it is anticipated that the reclamation will be completed within a 2-year period with 2 barges working 16 hours/day over 7 days/week. The actual reclamation and programme as well as material brought in may vary depending on the appointed contractor.
 - These uncertainties are addressed in the modelling by adopting a 'scenario approach' where key expected activities are modelled for different climatic conditions and spill scenarios.
 - Based on the findings from the numerical assessment, the potential "worst case" impacts from sediment plume dispersion are significant, and careful management and mitigation is required during construction. The modelling has also demonstrated that potential impacts from the reclamation activities can be reduced through appropriate mitigation measures. The recommendations for the sediment plume mitigation measures are as follows:
 - Construction of a bund around the reclamation site at the onset of reclamation to control runoff from the reclamation site.
 - If the bund is initially constructed with sand, this should be marine sand with low fines content to minimise the loss of fines during bund construction.
 - Where the bund will be permanent, an outer stable layer should be constructed as soon as practicable possible to limit sediment spill from erosion.
 - If hydraulic filling (pumping) is used for the reclamation, the overflow from the reclamation site should be carefully controlled through sedimentation basins to minimise the release of fines.
 - It is recommended to establish a proactive management scheme for sediment plumes as part of the Environmental Monitoring and Management Programme. The details of this would need to be tailored to the actual reclamation method and schedule. It is agreed that this should be an effort between the engineers, hydraulic assessment and EIA teams. The reclamation method will be included in the EIA report for EPD's approval.
- **A suitable sand source is not identified. This is to be mentioned although a full-blown study is not required at this stage**
 - For the present hydraulic study, the sand source will be subject to a separate study as the source is yet to be identified. A potential source for the fill material is Hayter Shoa which is located about 50 km away from the proposed project site.

- **Please include the design profile of the coastal defence measures as well as the crossings and this is to be cross assessed using numerical model and to be reflected in the report**
 - Overall, the proposed development reclamation will be enclosed with rock revetment. A schematic of the revetment cross-section is Figure 1 (provided by Hydro Specialist: Serumpun Konsultant Sdn Bhd). Outer revetment refers to the structures facing the sea, whilst inner revetment refers to the structures facing landward. The basic information on structure profile has been incorporated in the numerical models of the hydraulic study, i.e. dimension and sloping. The hydraulic study further provides design waves and water levels as well as a morphological assessment to support the detailed design of the structures by design engineers. Meanwhile, for modelling purpose, for the bridge linking the mainland to the proposed development, the bridge column width was assumed to be 1m with their positions shown in Figure 2.

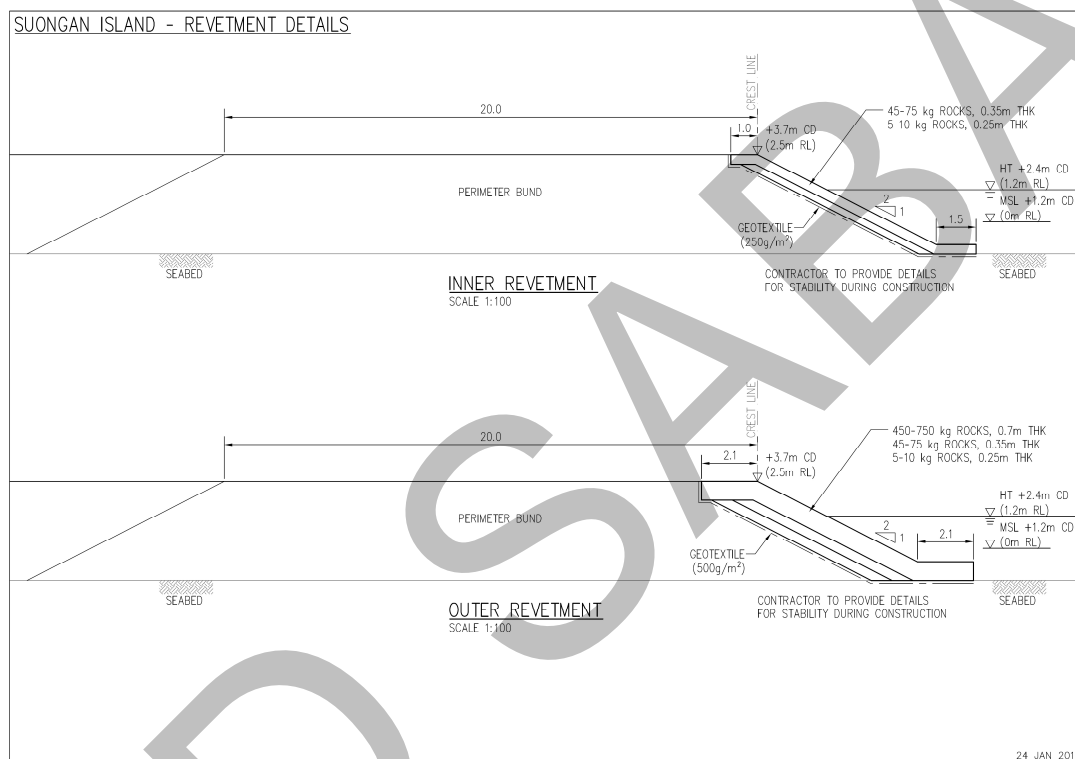


Figure 1: Schematic of the revetment cross-section for the proposed development.



Figure 2: Schematic of the assumed bridge column for the proposed development (Background image sourced from Google Earth).

Yours sincerely,

DHI Water & Environment (M) Sdn. Bhd.



Aaroun Leiking
Coastal and Marine Engineer, Coastal and Marine Department

Cc: *Mujur Lagenda Sdn Bhd*



JABATAN PENGAIRAN DAN SALIRAN
(Department of Irrigation and Drainage)
Kementerian Pertanian dan Industri Makanan
Aras 5, Wisma Pertanian Sabah
Jalan Tasik, Luyang
Off Jalan Maktab Gaya
Beg Berkunci 2052
88767 KOTA KINABALU

104783



<http://www.did.sabah.gov.my>

Tel: +6088280500

Fax: +6088242770

email: did@sabah.gov.my

Rujukan Kami : JPS(SAB) 1000-0/3/1(46)

Tarikh : 21st January 2020

DHI Water & Environment (M) Sdn. Bhd.

(535484-V)

11th Floor, Wisma Perindustrian,

Jalan Istiadat,

88400 Kota Kinabalu, Sabah, Malaysia

Sir,

SUBMISSION OF THE HYDRAULIC REPORT FOR THE PROPOSED TOURISM AND RECREATION RESORT DEVELOPMENT AT KG. SUOANGAN, KINARUT, PAPAR DISTRICT

We refer to your letter ref. No : 62801567-LET-AAL-005 dated 17th January 2020 on the above.

2. Please be informed that this department has no objection to the FINAL HYDRAULIC REPORT as submitted for the above-mentioned study.

Thank you.

"BERKHIDMAT UNTUK NEGARA DENGAN BERSIH, CEKAP DAN AMANAH"

Saya yang menjalankan amanah,

(Ir. Siraja Bin Bashora)

Ketua Penolong Pengarah Kanan (TB&P)

B.p. Pengarah Pengairan dan Saliran,

Negeri Sabah.

c.c. : **Jurutera Daerah Papar**

" **Pengarah**

Jabatan Perlindungan Alam Sekitar

Tingkat 1-3, Wisma Budaya,

Jalan Tunku Abdul Rahman

88999 Kota Kinabalu, Sabah

" **Ketua Bahagian Saliran Bandar Dan Sungai**

" **Mujur Lagenda Sdn. Bhd.**

Block G40-3A, Signature Office,

KK Times Square,

88100 Kota Kinabalu, Sabah.

DHI (Malaysia)			
Incoming / Outgoing			
Date: 21 JAN 2020			
File no: master/6281567			
	Copy		Cir.
	Act	Info	Seen
AAL		✓	



JAYAKAN PERKHIDMATAN SEMPURNA



No. Sijil: KLR 6015083



JABATAN PENGAIRAN DAN SALIRAN SABAH
(Department of Irrigation and Drainage)
Kementerian Pertanian dan Industri Makanan
Aras 5, Wisma Pertanian Sabah
Jalan Tasik, Luyang
Beg Berkunci 2052
88767 KOTA KINABALU

<http://www.did.sabah.gov.my>

Tel: +6088280500

Fax: +6088242770

email: did@sabah.gov.my

Rujukan Kami : JPS (SAB) 1000-0/3/1 (59)
Tarikh : 25 January 2022

Project Manager,
Mujur Lagenda Sdn. Bhd.,
Block G-40-3A,
Signature Office,
KK Times Square
88100 KOTA KINABALU.

(U/P: MR. VINCENT LIAU)

Tuan,

PROPOSED SUBDIVISION & AMALGAMATION FOR TOURISM AND RESORT DEVELOPMENT ON CL.025370629, CL.025348627 AND CL 025348636 ALONG JALAN PENGALAT LOK KAWI AT KG. SUANGON, KINARUT, PAPAR DISTRICT

- Renewal of Hydraulic Report Approval.

Your letter Ref: MLSB/JPS/211124/1 dated 24 November 2021 on the above-mentioned matter is kindly referred.

2. Please be informed that we have no objection to your request for the renewal of approval of the Hydraulic Report for the proposed project. Therefore, the approval issued on 21 January 2020 (Ref: JPS (SAB) 1000-0/3/1(46)) will be valid for another 2 years from the date of this letter.

3. Please also be informed that it is the responsibility of the project owner/consultant to investigate the present hydraulics condition at the proposed site and to ensure that no significant changes from what have been reported in the approved hydraulics report.

Thank you.

'BERKHIDMAT UNTUK NEGARA'

Saya yang menjalankan amanah,

(FAZILAH BIN HJ. ABD. GHANI)

Ketua Penolong Pengarah Kanan.

b/p Pengarah Pengairan dan Saliran Sabah.

JG/...

cc:

DHI Water & Environment (M) Sdn. Bhd.
11th Floor, Wisma Perindustrian, Jln Istiadat,
KOTA KINABALU
(Attn: MR. AAROUN LEIKING)

ANNEX 3.0

LAND AND ZONING RELATED DOCUMENTS

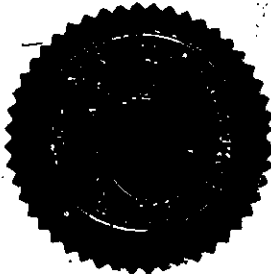
3.1 LAND TITLES

3.2 CONSENT LETTER FOR CL.025313080 AND
CL.025342563

3.3 JPBW LETTER ON THE LOCAL ZONING STATUS OF
THE PROPOSED SITE

ANNEX 3.1

LAND TITLES



EGERI



SABAH

12.11.13. 1.1.13.

CIA 62-746-7

KINABALU RESORT CLUB Bld

KINABALU RESORT CLUB

Title No.
Country Lease 025313080

THIS TITLE made on 10 08 1974 (day ten of month August of year nineteen seventy four), between the Director of Lands & Surveys for and on behalf of the Government of the State of Sabah (hereinafter called the "Director") and

H0000008 HARRIS B MOHD SALLEH DT

(hereinafter called the "Owner/s" which term shall include executor/s, administrator/s and assignee/s); WITNESSETH that, in consideration of the payment to the Government of the State of Sabah of the

premium of \$ 1900.00 (dollars one thousand and nine hundred) and the surrender of 023101984 for conversion;

annual rent of \$ 23.00 (dollars twenty three)

the Director hereby demises to the said Owner/s all that piece of land shown as survey lot No. (same as Title No.) and containing 3.77 (three decimal seven seven) Acre/s more or less, which said land is delineated on the diagram drawn on these presents and more particularly on plan No. 02114733 deposited in the office of the said Director, TO HAVE AND TO HOLD for the period from 01 01 1975 (day one of month January of year nineteen seventy five) to 31 12 2073 (day thirty one of month December of year twenty seventy three) subject to the provisions and conditions contained in the Land Ordinance, Cap. 68 and to the special terms described herein.

Page two

SPECIAL TERMS:

The said land is demised herein expressly and only for the purpose of ~~the cultivation of an agricultural crop of economic value.~~
EXECUTIVE RESORT CLUB/HOTEL.

ml 10322168 d. 20-06-96

Subdivision of this title is prohibited unless the written permission of the Director of Lands and Surveys is first obtained.

REGISTERED

Register Memo No. 10170622

Memo Seq. in Title: 01

Time: 0905 hr

Date: 250979

Nature: Transfer

By: Harris b. Mohd. Salleh Dr.

To: Ruby Mary-Anne Chung
e Munro.

REGISTER

REGISTERED

Register Memo No. 10293833

Memo Seq. in Title: 02

Time: 1430 hrs

Date: 200499

Nature: Transfer

By: Ruby Mary-Anne Chung
e Munro

To: Kinabalu Executive 300 Bhd
(14278480)

REGISTER

REGISTERED

Register Memo No. 110293834

Memo Seq. in Title: 03

Time: 1435 hrs

Date: 200499

Nature: Change of Name

By: Kinabalu Executive Club Bhd

To: Kinabalu Executive
Resort Club Bhd

REGISTER

REGISTERED

Register Memo No. 110293835

Memo Seq. in Title: 04

Time: 1440 hrs

Date: 200499

Nature: Charge RM200,000/-

By: Kinabalu Executive

To: Resort Club Bhd

To: Hock Hua Bank (Jagan)
Bhd

REGISTER

REGISTERED

Register Memo No. 1103205282

Memo Seq. in Title: 05

Time: 1435 HRS

Date: 300496

Nature: VACATE

By: KONG KIEK NEW

To: KINABALU EXECUTIVE RESORT
CLUB BHD

REGISTER

REGISTERED

Register Memo No. 1103221678

Memo Seq. in Title: 06

Time: 1200 hrs

Date: 200496

Nature: VACATE

By: LAH KUN HUA + Chai Mee Leng (F)

To: Kinabalu Executive Resort Club
Berhad

REGISTER

REGISTERED

Register Memo No. 110356997

Memo Seq. in Title: 09

Time: 1420 hrs

Date: 311098

Nature: Change of Name of Charge

By: Hock Hua Bank
(Sabah) Bhd

To: International Bank
Malaysia Bhd

REGISTER

REGISTERED

Register Memo No. 10407143

Memo Seq. in Title: 11

Time: 1220

Date: 0705

Nature: VACATE

By: DIRECTOR

To: Hock Hua Bank

REGISTER

REGISTERED

Register Memo No. 110322168

Memo Seq. in Title: 10

Time: 1405 hrs

Date: 200496

Nature: The grant of permission to
change of usage.
The deletion of the words 'The
cultivation of an agricultural crop
of economic value' under the
special terms.
And, substitution of the words
'Executive Resort Club Hotel' in
lieu thereof.
And subject to revision of Annual
rent, ringgit, Four hundred twenty
only (RM420.00) w.e.f. 01.01.1995.

By: DIRECTOR

To: Hock Hua Bank

REGISTER

REGISTERED
 Memo No. 10401144
 Memo Seq. 12
 Memo Time 1225
 Memo Date 0705

REGISTERED
 Memo No. 10527918
 Memo Seq. 13
 Memo Time 0908 hrs
 Memo Date 10052010

change of Name of Company.
 By: Kinabalu Executive
 Resort Club Bhd.
 To: Kinabalu Executive
 Resort Club sdn. Bhd.

Memo No. : MC1010020176, Memo Seq. No. In Title : 15, Memo Time : 16:27:57, Memo Date : 28/10/2010,
 Nature Of Dealing : Transfer
 By : KINABALU EXECUTIVE RESORT CLUB SDN. BHD. (1/1 SHR) 99999
 To : WSG LAND SDN. BHD. (1/1 SHR) 99999

Memo No. : MC1010020176, Memo Seq. No. In Title : 16, Memo Time : 16:31:01, Memo Date : 28/10/2010,
 Nature Of Dealing : Charge (2 Titles) (RM4,800,000.00)
 By : WSG LAND SDN. BHD.
 To : MALAYAN BANKING BERHAD

Memo No. : MC1605020073, Memo Seq. No. In Title : 17, Memo Time : 12:17:01, Memo Date : 18/05/2016,
 Nature Of Dealing : Satisfaction of Charge (MC1010020176)
 By : MALAYAN BANKING BERHAD
 To : WSG LAND SDN. BHD.

Memo No. : MC1612020145, Memo Seq. No. In Title : 19, Memo Time : 16:08:15, Memo Date : 28/12/2016,
 Nature Of Dealing : Transfer
 By : WSG LAND SDN. BHD. (856984-X) (1/1 SHR) 99999
 To : REAL FUTURE SDN. BHD. (960584-K) (1/1 SHR) 99999

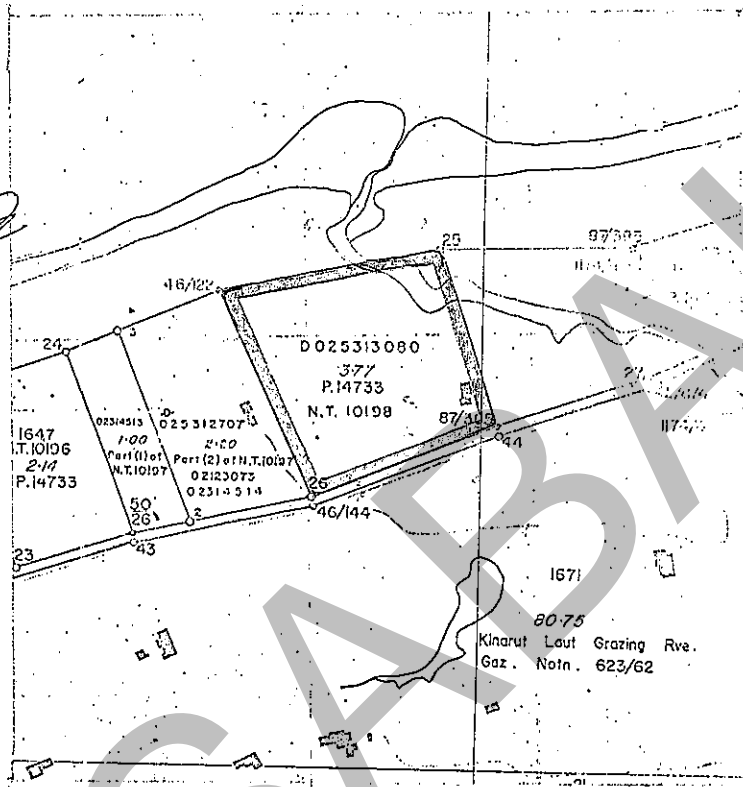
District of Papar
Locality: Kinarut
Scale: 4 chain/s per inch
Ref. No. 023101984

L.S. 209.2.59
Geo Code: 32034987
Registration Fees \$0.00
Receipts Nos.
Examined for
survey lot

by: *P. Lien*
dated: *30.1.75*

terms by: *M. M. G.*
dated: *5.2.75*

payments by: *P. Lien*
dated: *5.2.75*



IN WITNESS WHEREOF, I the said Director and I/we the said owner/s have hereunto set our hands this the *24th* day of *October*, nineteen *seventy eight*

Owner/s

PRINT NAME SIGNATURE

HARRIS B MOHD SALLEH DT

RUBY MARY ANNE LENG

Attestor/s to signatures of owner/s and the Director as authorised under Section 97 of the Land Ordinance

PRINT NAME DESIGNATION SIGNATURE

MOHD YUSSOF NAIR DEPUTY GENERAL MANAGER

L.O.S. HARUN LENG

CIVIL ENGINEER

DORIA LIEW

PENYELIA PEJABAT TANAH

(Attestor to signature of Harris B Mohd Salleh DT)

DIRECTOR

REGISTERED

This *24th* day of *October*, nineteen *seventy-eight*

DORIA LIEW
PENYELIA PEJABAT TANAH

Registrar of Titles

NEGERI SABAH



SCHEDULE VIII
(SECTION 48 AND 57)
FORM OF LEASE

TITLE NO.
COUNTRY LEASE 025342563

THIS TITLE MADE ON 26 07 1994 (DAY TWENTY SIX OF MONTH JULY OF YEAR NINETEEN NINETY FOUR), BETWEEN THE DIRECTOR OF LANDS & SURVEYS FOR AND ON BEHALF OF THE GOVERNMENT OF THE STATE OF SABAH (HEREINAFTER CALLED THE "DIRECTOR") AND

H046B139 CHANG KIM LAN
H0004800 TAN MING HUAT

DECIMAL 50000 SHARE
DECIMAL 50000 SHARE

(HEREINAFTER CALLED THE "OWNER/S" WHICH TERM SHALL INCLUDE EXECUTOR/S, ADMINISTRATOR/S AND ASSIGNEE/S); WITNESSETH THAT, IN CONSIDERATION OF THE PAYMENT TO THE GOVERNMENT OF THE STATE OF SABAH OF THE

PREMIUM OF \$ 28000.00 (DOLLARS TWENTY EIGHT THOUSAND) AND THE SURRENDER OF 023168649 FOR CONVERSION AND SUBDIVISION;

ANNUAL RENT OF \$ 280.00 (DOLLARS TWO HUNDRED AND EIGHTY)

THE DIRECTOR HEREDY DEMISES TO THE SAID OWNER/S ALL THAT PIECE OF LAND SHOWN AS SURVEY LOT NO. (SAME AS TITLE NO.) AND CONTAINING 0.811 (ZERO DECIMAL EIGHT ONE ONE) HECTARE/S MORE OR LESS, WHICH SAID LAND IS DELIENATED ON THE DIAGRAM DRAWN ON THESE PRESENTS AND MORE PARTICULARLY ON PLAN NO. 02126150 67 HA 23 DEPOSITED IN THE OFFICE OF THE SAID DIRECTOR, TO HAVE AND TO HOLD FOR THE

PERIOD FROM 01 01 1994 (DAY ONE OF MONTH JANUARY OF YEAR NINETEEN NINETY FOUR) TO 31 12 2092 (DAY THIRTY ONE OF MONTH DECEMBER OF YEAR TWENTY NINETY TWO)

PAGE TWO

SUBJECT TO THE PROVISIONS AND CONDITIONS CONTAINED IN THE LAND ORDINANCE, CAP. 68 AND TO THE SPECIAL TERMS DESCRIBED HEREIN.

SPECIAL TERMS:

THE SAID LAND IS DEMISED HEREIN EXPRESSLY AND ONLY FOR THE PURPOSE OF ERECTING THEREON FOR USE AS SUCH BEACH RESORT HOTEL.

SUBDIVISION OF THIS TITLE IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR.

THE OWNER COVENANTS:

TO COMPLETE THE CONSTRUCTION ON THE SAID LAND OF A BUILDING IN ACCORDANCE WITH THE TERMS AND CONDITIONS CONTAINED HEREIN AND WITH THE PLANS AND SPECIFICATIONS SUBMITTED TO AND APPROVED BY THE AUTHORITY UNDER THE LOCAL GOVERNMENT ORDINANCE, (AND TOWN AND COUNTRY PLANNING ORDINANCE) HAVING JURISDICTION OVER THE SAID LAND;

AT ALL TIMES TO MAINTAIN AND KEEP IN TENANTABLE CONDITIONS AND GOOD REPAIR THE BUILDING/S ERECTED OR TO BE ERECTED ON THE SAID LAND TO THE SATISFACTION OF THE AUTHORITY UNDER THE LOCAL GOVERNMENT ORDINANCE (AND TOWN AND COUNTRY PLANNING ORDINANCE) HAVING JURISDICTION OVER THE SAID LAND AND THAT IN THE EVENT OF THE TOTAL OR PARTIAL DESTRUCTION OF THE SAID BUILDING/S, TO REPAIR, REINSTATE AND REBUILD IN ACCORDANCE WITH THE LAST PLANS AND SPECIFICATIONS SUBMITTED TO AND APPROVED BY THE SAID AUTHORITY.

REGISTERED

Register Memo No. 1103287251

Memo Seq. in Title: 03

Title: 1110 hrs

Date: 27 11 96
D D M M Y Y

Nature: Transfer (1/2)

By: Chang Kim Lan

To: Kinabalu Executive Resort Club Bhd

REGISTRAR

REGISTERED

Register Memo No. 110328726

Memo Seq. in Title: 04

Title: 1115 hrs

Date: 27 11 96
D D M M Y Y

Nature: Transfer (1/2)

By: Tan Ming Huat

To: Kinabalu Executive Resort Club Bhd

REGISTRAR

REGISTERED

Register Memo No. 110356142

Memo Seq. in Title: 05

Title: 1200 hrs

Date: 09 12 98
D D M M Y Y

Nature: Change of Name

By: Kinabalu Executive Resort Club Bhd

To: Kinabalu Executive Resort Club Sdn Bhd

REGISTRAR

REGISTERED

Register Memo No. 110356143

Memo Seq. in Title: 06

Title: 1205 hrs

Date: 09 12 98
D D M M Y Y

Nature: Change of Name (A3,500,000/-)

By: Kinabalu Executive Resort Club Sdn Bhd

To: Export - Import Bank of Malaysia Berhad

REGISTRAR

Memo No. : MC1010020177, Memo Seq. No. In Title : 10, Memo Time : 18:29:38, Memo Date : 28/10/2010,
Nature Of Dealing : Transfer
By : KINABALU EXECUTIVE RESORT CLUB SDN. BHD. (1/1 SHR) 99999
To : WSG LAND SDN. BHD. (1/1 SHR) 99999

Memo No. : MC1010020178, Memo Seq. No. In Title : 11, Memo Time : 18:31:01, Memo Date : 28/10/2010,
Nature Of Dealing : Charge (2 Titles) (RM4,800,000.00)
By : WSG LAND SDN. BHD.
To : MALAYAN BANKING BERHAD

Memo No. : MC1805020074, Memo Seq. No. In Title : 12, Memo Time : 12:28:18, Memo Date : 18/05/2016,
Nature Of Dealing : Satisfaction of Charge (MC1010020178)
By : MALAYAN BANKING BERHAD
To : WSG LAND SDN. BHD.

Memo No. : MC1812020144, Memo Seq. No. In Title : 14, Memo Time : 10:21:10, Memo Date : 28/12/2016,
Nature Of Dealing : Transfer
By : WSG LAND SDN. BHD. (959984-X) (1/1 SHR) 99999
To : REAL FUTURE SDN. BHD. (960984-K) (1/1 SHR) 99999

Register

Register

Register

Register

NEGERI SABAH



SCHEDULE VIII (SECTION 48 AND 57) FORM OF LEASE

COUNTRY LEASE : TITLE NO.
025370629

THIS TITLE MADE ON 05 09 1996 (DAY FIVE OF MONTH SEPTEMBER OF YEAR NINETEEN NINETY SIX), BETWEEN THE DIRECTOR OF LANDS AND SURVEYS FOR AND ON BEHALF OF THE GOVERNMENT OF THE STATE OF SABAH (HEREINAFTER CALLED THE DIRECTOR) AND

319690-M

MUJUR LAGENDA SDN BHD

DECIMAL 99999 SHARE

(HEREINAFTER CALLED "THE OWNER(S)" WHICH TERM SHALL INCLUDE EXECUTOR(S), ADMINISTRATOR(S) AND ASSIGNEE(S)) THAT, IN CONSIDERATION OF THE PAYMENT TO THE GOVERNMENT OF SABAH OF THE

PREMIUM RM: 875,000.00 (RINGGIT MALAYSIA: EIGHT HUNDRED SEVENTY FIVE THOUSAND ONLY)
AND ADDITIONAL PREMIUM OF RM 1,300,000.00 ((RINGGIT MALAYSIA: ONE MILLION THREE HUNDRED THOUSAND ONLY)
FOR AMENDMENT OF SPECIAL TERMS AND CONDITIONS.

ANNUAL RENT OF RM: 1,000.00 (RINGGIT MALAYSIA: ONE THOUSAND ONLY)
AND RISING TO RM: 9,925.00 (RINGGIT MALAYSIA: NINE THOUSAND NINE HUNDRED TWENTY FIVE ONLY)
ON 1ST JANUARY 2002 (DAY ONE OF MONTH JANUARY OF YEAR TWENTY ZERO TWO)

AND RISING TO RM: 10,075.00 (RINGGIT MALAYSIA: TEN THOUSAND SEVENTY FIVE ONLY) ON 1ST JANUARY 2008 (DAY ONE OF MONTH JANUARY OF YEAR TWENTY ZERO EIGHT)

THE DIRECTOR HEREBY DEMISES TO THE SAID OWNER(S) ALL THAT PIECE OF LAND SHOWN AS SURVEY LOT NO. (SAME AS TITLE NO.) AND CONTAINING 40.46 (FORTY AND DECIMAL FOUR SIX) HECTARE/S MORE OR LESS, WHICH THE SAID LAND IS DELIENATED ON THE DIAGRAM DRAWN ON THESE PRESENTS AND MORE PARTICULARLY ON

Page:1

PLAN NO. 02127984

67HA23

DEPOSITED IN THE OFFICE OF THE SAID DIRECTOR, TO HAVE AND TO HOLD FOR THE PERIOD

FROM 01 01 1996 (DAY ONE OF MONTH JANUARY OF YEAR NINETEEN NINETY SIX)

TO 31 12 2094 (DAY THIRTY ONE OF MONTH DECEMBER OF YEAR TWENTY NINETY FOUR)

SUBJECT TO THE PROVISIONS AND CONDITIONS CONTAINED IN THE LAND ORDINANCE, CAP. 68 AND TO SPECIAL TERMS DESCRIBED HEREIN

SPECIAL TERMS

THE SAID LAND IS DEMISED HEREIN EXPRESSLY AND ONLY FOR THE PURPOSE OF TOURISM AND RECREATION RESORT.

THE OWNER SHALL:-

COMPLETE BEFORE MONTH 01 OF YEAR 2013 (MONTH JANUARY OF YEAR TWENTY THIRTEEN) THE DEVELOPMENT OF THE WHOLE OF THE PROJECT IN ACCORDANCE WITH THE TERMS AND CONDITIONS HEREIN AND WITH THE PLANS AND SPECIFICATIONS SUBMITTED TO AND APPROVED BY THE RELEVANT LOCAL AUTHORITY UNDER THE LOCAL GOVERNMENT ORDINANCE 1961 AND TOWN AND COUNTRY PLANNING ORDINANCE CAP. 141 HAVING JURISDICTION OVER THE SAID LAND.

SUBMIT A DETAILED DEVELOPMENT PLAN FOR THE SAID LAND TO THE LOCAL AUTHORITY FOR CONSIDERATION AND APPROVAL WITHIN A PERIOD OF SIX MONTHS FROM THE DATE OF THE OFFER TO ALIENATE LAND SUBJECT TO THE FOLLOWING:

(I) THE OWNER SHALL OBTAIN THE RECOMMENDATION OF THE DIRECTOR OF PORTS AND HARBOURS DEPARTMENT OR ITS EQUIVALENT WITH REGARD TO SEA TRAFFIC AND NAVIGATIONAL AIDE AND SHALL INCORPORATE SUCH RECOMMENDATION IN THE DETAILED DEVELOPMENT PLAN.

(II) THE OWNER SHALL OBTAIN THE RECOMMENDATION OF THE DIRECTOR OF FISHERIES DEPARTMENT ON MEASURES FOR MAINTENANCE OF THE MARINE ECOLOGICAL SYSTEM AND SHALL INCORPORATE SUCH RECOMMENDATION IN THE DETAILED DEVELOPMENT PLAN.

(III) THE OWNER SHALL OBTAIN THE RECOMMENDATION OF THE DIRECTOR OF DRAINAGE AND IRRIGATION DEPARTMENT WITH REGARD TO ITS PROPOSED PLAN ON RECLAMATION AND DREDGING WORKS AND SHALL INCORPORATE SUCH RECOMMENDATION IN THE DETAILED DEVELOPMENT PLAN.

Page:2

SUBMIT A PROGRESS REPORT ON THE DEVELOPMENT OF THE LAND EVERY SIX (6) MONTHS TO THE DIRECTOR OF LANDS AND SURVEYS WITH COPIES TO THE SECRETARY OF NATURAL RESOURCES, PERMANENT SECRETARY TO THE MINISTER OF TOURISM AND ENVIRONMENTAL DEVELOPMENT, PERMANENT SECRETARY TO THE MINISTER OF LOCAL GOVERNMENT AND HOUSING AND THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENT.

TAKE ALL NECESSARY PRECAUTIONS AGAINST POLLUTION AND SUBMIT PLANS FOR THE ENVIRONMENTAL PROTECTION AND CONTROL OF THE AREA DURING AND AFTER THE DEVELOPMENT OF THE SAID LAND FOR APPROVAL BY THE RELEVANT AUTHORITY IN ACCORDANCE WITH THE ENVIRONMENTAL QUALITY ACT, 1974.

ENSURE THAT ONLY PLANTS AND PLANTING MATERIALS APPROVED BY THE DIRECTOR OF AGRICULTURE SHALL BE PLANTED OR BE USED ON THE SAID LAND FOR LANDSCAPING PURPOSES.

COMPLY WITH ALL DIRECTIONS WHICH MAY FROM TIME TO TIME BE GIVEN TO HIM BY THE DIRECTOR OF AGRICULTURE OR HIS AGENT WITH REGARD TO THE PREVENTION OF SOIL EROSION AND CONTROL OF PESTS AND DISEASES.

AT ALL TIMES TO MAINTAIN AND KEEP IN TENANTABLE CONDITIONS AND GOOD REPAIR OF THE BUILDING/S ERECTED OR TO BE ERECTED ON THE SAID LAND TO THE SATISFACTION OF THE LOCAL AUTHORITY UNDER THE LOCAL GOVERNMENT ORDINANCE (AND TOWN AND COUNTRY PLANNING ORDINANCE) HAVING JURISDICTION OVER THE SAID LAND AND THAT IN THE EVENT OF THE TOTAL OR PARTIAL DESTRUCTION OF ANY OF THE SAID BUILDINGS, TO REPAIR, REINSTATE AND REBUILD IN ACCORDANCE WITH THE LAST PLANS AND SPECIFICATIONS SUBMITTED TO AND APPROVED BY THE LOCAL AUTHORITY.

AT ALL TIMES TO MAINTAIN THE GOLF COURSE AND OPEN SPACES WITH PROPER LANDSCAPE TO THE SATISFACTION OF THE SAID LOCAL AUTHORITY.

SUBJECT TO THE AVAILABILITY OF SUITABLY QUALIFIED PERSONS EMPLOY MALAYSIANS OF SABAH ORIGIN TO CARRY OUT THE DEVELOPMENT, MAINTENANCE WORKS AND OPERATIONS THE BUSINESS OF THE PROJECT.

TAKE ALL NECESSARY STEPS WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF THE OFFER TO ALIENATE THE SAID LAND TO TRAIN MALAYSIANS OF SABAH ORIGIN TO ENABLE THEM TO QUALIFY FOR THE APPOINTMENT TO ALL GRADES AND CATEGORIES OF EMPLOYMENT IN THE OPERATION AND MAINTENANCE OF THE PROJECT.

AS MUCH AS POSSIBLE MAKE USE OF ALL THE SERVICES, MATERIALS AND FACILITIES AVAILABLE LOCALLY FOR THE CONSTRUCTION, MAINTENANCE AND OPERATION OF THE BUSINESS OF THE PROJECT.

PAY COMPENSATION FOR ANY DAMAGE DONE DURING THE COURSE OF DEVELOPMENT OF THE PROJECT TO ANY PROPERTY OWNED BY THE GOVERNMENT OR OTHERS AND FOR ANY NATIVE CUSTOMARY RIGHTS ESTABLISHED UNDER THE LAND ORDINANCE.

Page:3

THE STATE GOVERNMENT OR ITS NOMINEE SHALL HAVE THE OPTION TO SUBSCRIBE FOR NOT MORE THAN 20% OF THE SHARE CAPITAL OF THE OWNER WITH EFFECT FROM THE DATE OF ACCEPTANCE OF THE OFFER TO ALIENATE OUT BEFORE THE EXPIRY OF THE EIGHT (8TH) YEAR.

THE VALUE OF THE OWNER'S SHARES IN RESPECT OF WHICH THE STATE GOVERNMENT OR ITS NOMINEE EXERCISES ITS OPTION TO SUBSCRIBE FOR SHALL BE DETERMINED BY AN INDEPENDENT FIRM OF AUDITORS ACCEPTABLE TO BE DETERMINED BY THE NETT TANGIBLE ASSETS OF THE OWNER.

NOT LESS THAN 30% OF EQUITY OF THE REGISTERED OWNER (WHERE THE REGISTERED OWNER IS A COMPANY INCORPORATED OR REGISTERED UNDER THE COMPANIES ACT, 1965 OR ANY RE-ENACTMENT THEREOF) SHALL BE TRANSFERRED TO OR HELD BY OR REGISTERED IN THE NAME OF NATIVE(S) AND SUCH PERCENTAGE OF EQUITY SHALL AT ALL TIMES THEREAFTER REMAIN SO HELD BY OR REGISTERED IN THE NAME OF NATIVE(S). FOR THE PURPOSE OF THE ABOVE, NATIVE(S)* SHALL INCLUDE ANY STATE GOVERNMENT AGENCY DULY APPROVED BY THE SECRETARY OF NATURAL RESOURCES AS SUCH.

(A) A RESERVE OF AT LEAST 50 METRES OUTSIDE THE SAID LAND MEASURED LANDWARDS FROM THE HIGH WATER MARK ALONG THE WATERFRONT/BEACH FRONT OF THE SAID LAND SHALL BE RECLAIMED BY THE OWNER AND NO DRAINAGE OR CHANNEL SHALL BE CONSTRUCTED OVER SUCH RESERVE.

(B) THE OWNER MAY CLEAR UP TO A MAXIMUM OF 2% OF THE COASTAL PERIMETER FOR OPENINGS OF 15 METRES WIDE WITHIN THE RESERVE FOR ACCESS PURPOSES.

THE STATE GOVERNMENT RETAINS THE RIGHT TO EXCISE AT ANY TIME FROM THE SAID LAND, RESERVES UP TO 60 METERS WIDE FOR TRUNK ROADS AND UP TO 40 METERS WIDE FOR OTHER ROADS OR PROPOSED ROADS WITHOUT PAYMENT OF COMPENSATION EXCEPT FOR DAMAGE TO PHYSICAL IMPROVEMENTS DONE ON THE SAID LAND.

THE STATE GOVERNMENT RESERVES THE RIGHT TO ENTER THE SAID LAND TO CARRY OUT WORKS WHICH IN ITS OPINION IS NECESSARY FOR ANY PUBLIC PURPOSE WITHOUT PAYMENT OF ANY COMPENSATION EXCEPT FOR ACTUAL DAMAGE DONE.

SUBDIVISION OF THIS TITLE IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR OF LANDS AND SURVEYS.

TRANSFER, CHARGE AND SUBLEASE OF THE SAID LAND IS PROHIBITED UNTIL SUCH TIME AS THE SAID LAND HAS BEEN FULLY DEVELOPED IN ACCORDANCE WITH THE TERMS AND CONDITIONS HEREIN AND WITHOUT THE WRITTEN PERMISSION OF THE DIRECTOR OF LANDS AND SURVEYS WHO SHALL CHARGE ADDITIONAL PREMIUM AND ENHANCED RENT WHEN GIVING SUCH PERMISSION.

FAILURE TO COMPLY WITH OR BREACH OF ANY OF THE TERMS AND CONDITIONS CONTAINED HEREIN SHALL ENTITLE THE GOVERNMENT TO RE-ENTER AND RESUME THE SAID LAND.

Page:4

DISTRICT OF PAPAR
LOCALITY KG SUOANGAN
SCALE 1:12,500
REF. NO LA94020724
L.S.204.17.3
MNR 316/2/84/130
GEOCODE 6740539685
STD SHT

REF: 67HA23
CODE: 67405205
REGISTRATION FEES RM 50.00


RECEIPTS NOS.
EXAMINED FOR
SURVEY LOT

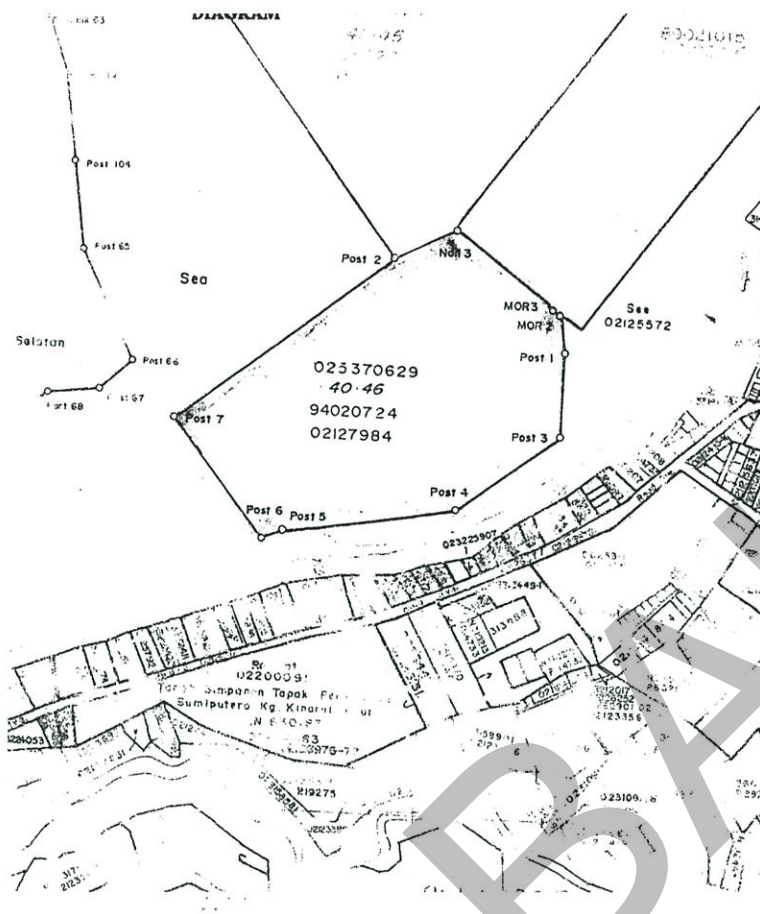
BY: 
DATED: 18-11-08

TERMS

BY: 
DATED: 20/11/2008

PAYMENTS

BY: 
DATED: 20/11/08



Page:5

IN WITNESS WHEREOF, I THE SAID DIRECTOR AND WE THE SAID OWNER(S) HAVE HEREUNTO SET OUR HANDS THIS THE

22nd DAY OF JANUARY, TWO THOUSAND AND NINE

OWNER/S:

ATTESTOR(S) TO THE SIGNATURES OF OWNER(S) AND THE DIRECTOR AS AUTHORISED
UNDER SECTION 97 OF THE LAND ORDINANCE

PRINT NAME

SIGNATURE

PRINT NAME

DESIGNATION

SIGNATURE

MUJUR LAGENDA SDN BHD

Director
TAN HAW BIN
NRIC No. H0608624

Secretary
ALBERT SHIM
NRIC No. 510629-71-5047

LIAU KEE SIONG
LL.B (Tas.) CLP
Advocate & Solicitor
Sabah, Malaysia.

JASWAN BIN JAMALUDIN
PENOLONG PEGAWAI TADBIR (TANAH)
KOTA KINABALU

DIRECTOR
LANDS AND SURVEYS
REGISTERED
THIS 20TH

DAY OF FEBRUARY, TWO THOUSAND AND NINE

REGISTRAR OF TITLES

Page:6

ANNEX 3.2

CONSENT LETTER FOR CL.025313080 AND CL.025342563

REAL FUTURE SDN. BHD.(960684-K)

Address: 2nd Floor, Lot 1929 Marina Square 2, Marina Parkcity, 98000 Miri, Sarawak, Malaysia

16 June 2017

The Director
Mujur Lagenda Sdn. Bhd.
Block G-40-3A Signature Office,
KK Times Square,
88100 Kota Kinabalu,
Sabah, Malaysia.

Dear Sir,

**LETTER OF CONSENT FOR LAND USE OF CL.025348627 & CL.025348636 FOR THE PURPOSE
OF TOURISM AND RECREATION RESORT DEVELOPMENT**

The above matter refers.


We, the directors of Real Future Sdn. Bhd., the company owning **CL.025348627 & CL.025348636** at **Kampung Suoangan, Kinarut, Papar, Sabah** hereby consent to allow Messrs. Mujur Lagenda Sdn. Bhd. to use the above said lands for the purpose of tourism and recreation resort development.

Thank you.

Yours faithfully,



Chang Hon Yee (NRIC No. 720518-13-5475)
(Director)



Phua Wei Li (NRIC No. 740126-13-5044)
(Director)



ANNEX 3.3

JPBW LETTER ON THE LOCAL ZONING STATUS OF THE PROPOSED SITE

Tel. No. 088 - 222337/222336/
222031/218201

Fax. No. 088 - 222557



PP141
JABATAN PERANCANG BANDAR DAN
WILAYAH,
Tingkat 3,4 dan 5, Menara SDB,
Blok B, Wisma Tun Fuad Stephens,
Km. 2,4, Jalan Tuaran,
88646 Kota Kinabalu,
Sabah, Malaysia

JPBW : 02/01/10/25
TARIKH : 19 Ogos, 2011

Arkitek Billings Leong & Tan Sdn. Bhd.,
Lot J -57-3, Signature Office,
KK Times Square,
Off Coastal Highway,
88100 KOTA KINABALU

Dear Sir,

**PROPOSED TOURISM AND RECREATION RESORT DEVELOPMENT ON C.L.
025370629(100 ACRES) AT KAMPUNG SUOANGAN, KINARUT, PAPAR
DISTRICT**

Dengan hormatnya, surat Tuan Ruj: **PP/47/JPBW** bertarikh **10/08/2011**
berkenaan dengan perkara di atas adalah dirujuk.

2. Sila maklum bahawa tanah tersebut di atas adalah termasuk di dalam
zon '**Integrated Tourism Development**' menurut Deraf Pelan Daerah Papar
yang telah dikemaskini dan Deraf Pelan ini juga tertakluk kepada perubahan
dari masa ke semasa.

Sekian terima kasih.

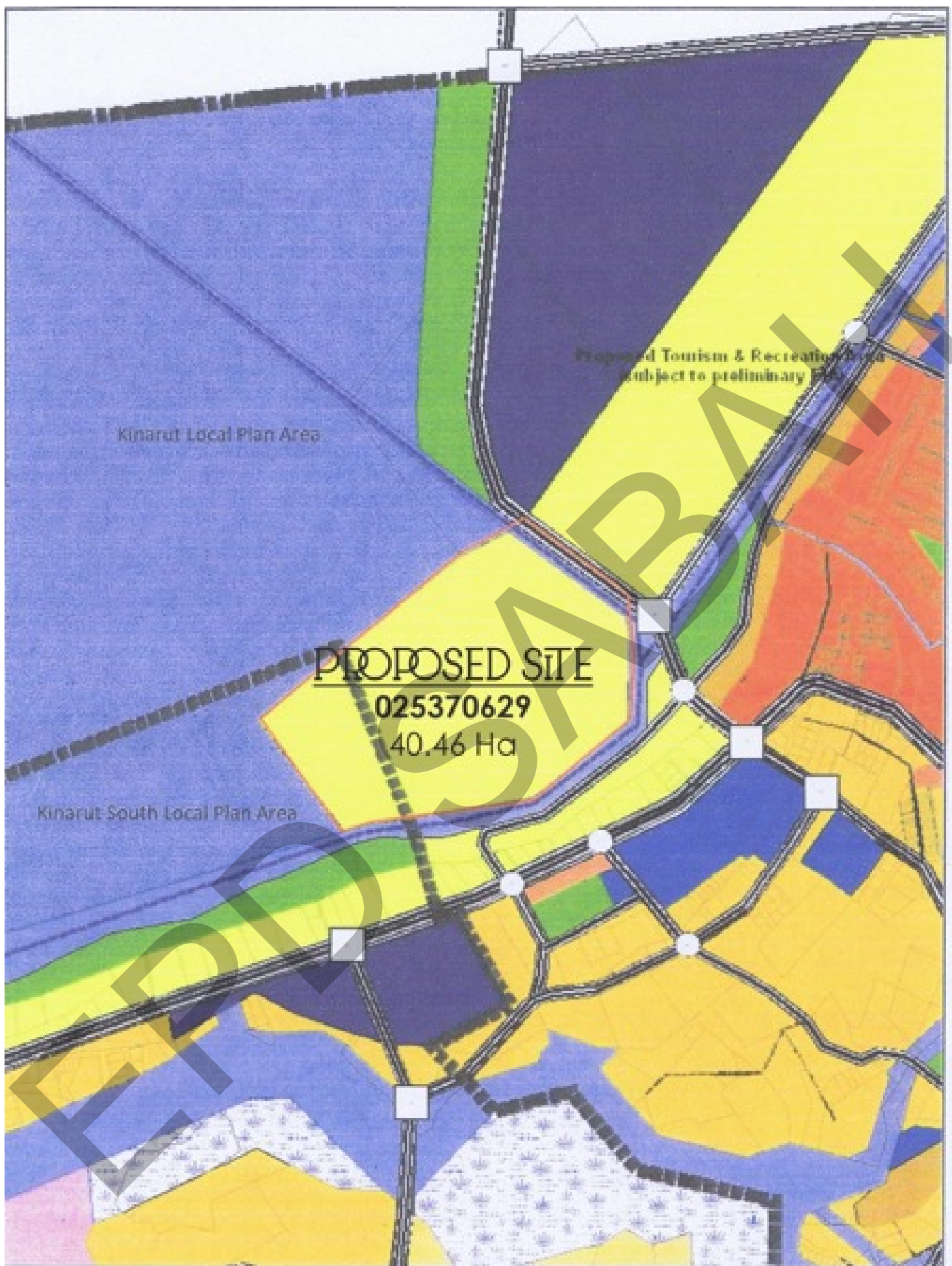
MURSIDI HAJI SAPIE

Pengarah

Jabatan Perancang Bandar dan Wilayah

KOTA KINABALU

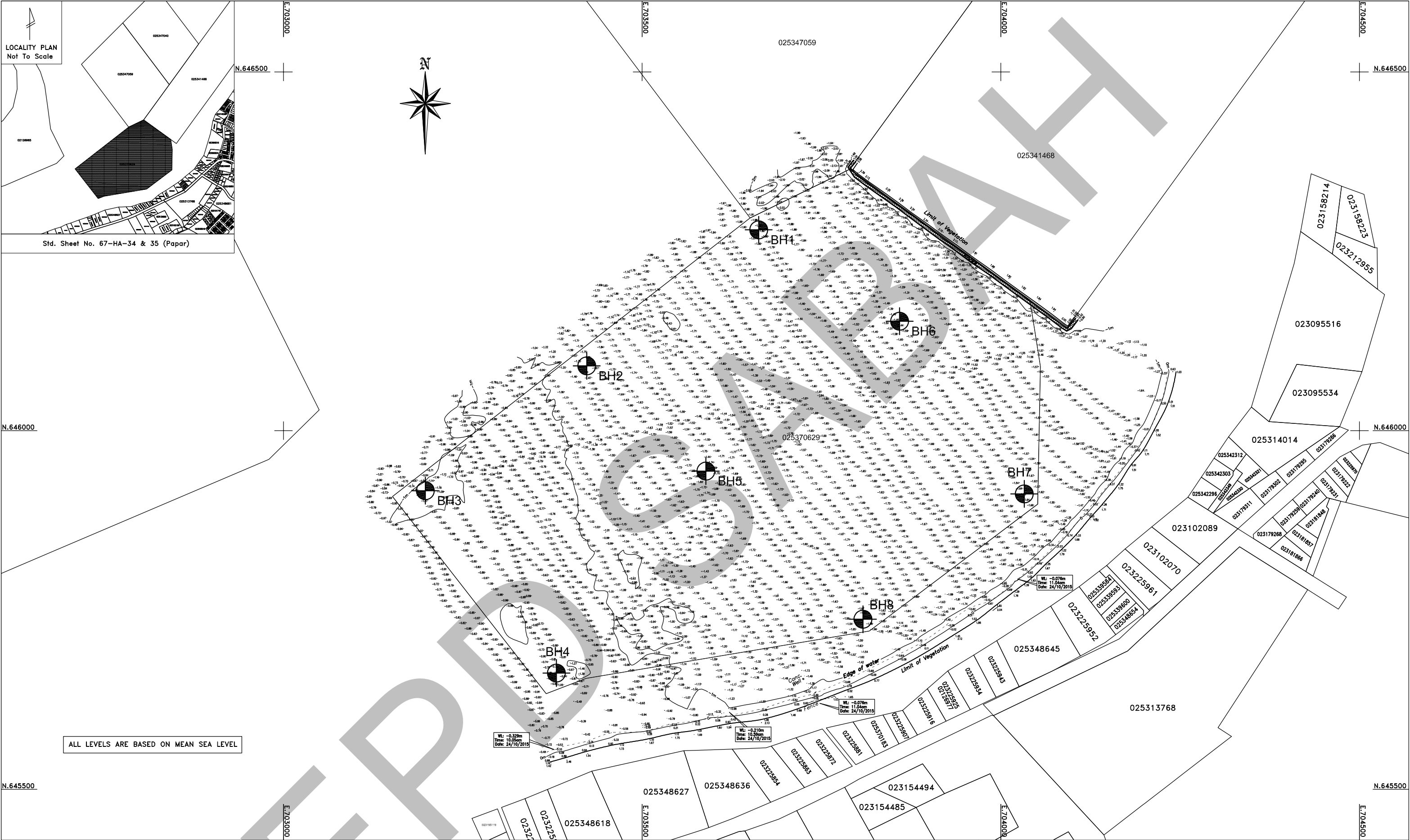
MHS/JNY/i



DRAFT Proposed Kinarut – Putatan Sea Front Development Master Plan
Scale 1 : 12,500
Zone: Tourism & Recreation Area

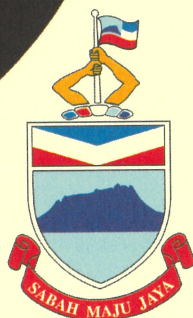
ANNEX 4.0

BOREHOLE LOCATION MAP FOR SOIL INVESTIGATION STUDY



ANNEX 5.0

CERTIFICATES AND CV OF REGISTERED CONSULTANTS



JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : F021....

Selaras dengan peruntukan di bawah Kaedah-Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

ENVSOLVE SDN BHD

Adalah perunding alam sekitar yang berdaftar dengan
Jabatan Perlindungan Alam Sekitar Negeri Sabah dalam menjalankan
Kajian Penilaian Kesan Alam Sekitar (EIA)

Tempoh Sah

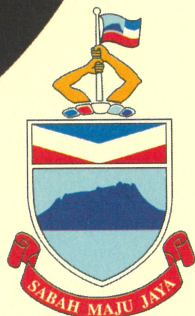
: 08 Ogos 2021 hingga 07 Ogos 2023

VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran :...S0068..

Selaras dengan peruntukan di bawah Kaedah-Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

LO SU MUI (KP : 711110-12-5172)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : Air, Noise & Water Quality

Tempoh Sah : 30 Januari 2022 hingga 29 Januari 2024

VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : S0197

Selaras dengan peruntukan di bawah Kaedah - Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

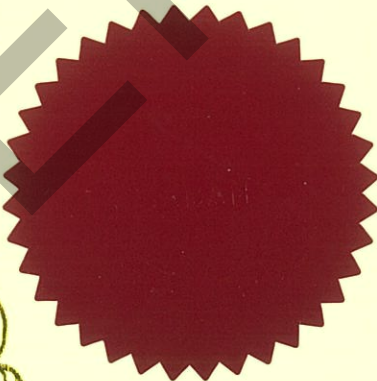
Dengan ini diperakukan

ROZIYANNA BINTI MANJUN (KP : 840727-12-5640)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : Land Use & Socio-Economy

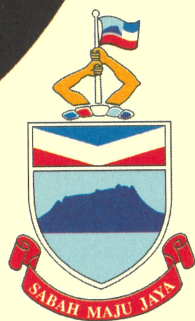
Tempoh Sah : 10 Februari 2021 hingga 09 Februari 2023



.....
VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar Negeri Sabah



JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : **S0115**

Selaras dengan peruntukan di bawah Kaedah-Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

FESTORY @ FASTHER GADANA (KP : 751217-12-5371)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : GIS / Mapping

Tempoh Sah : 24 September 2021 hingga 23 September 2023

VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : S0026

Selaras dengan peruntukan di bawah Kaedah - Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

DR. CLAUD PEDERSEN (P:201321316 / A 8493398)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

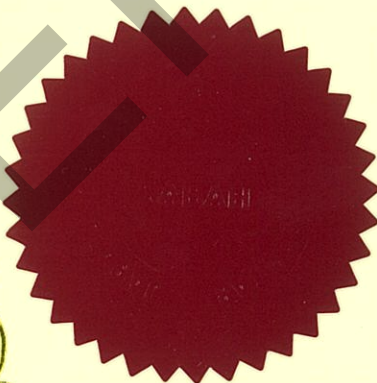
Bidang Kepakaran : Hydraulic Study & Coastal Engineering

Tempoh Sah : 01 Oktober 2020 hingga 30 September 2022

VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar Negeri Sabah





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : S0216

Selaras dengan peruntukan di bawah Kaedah - Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

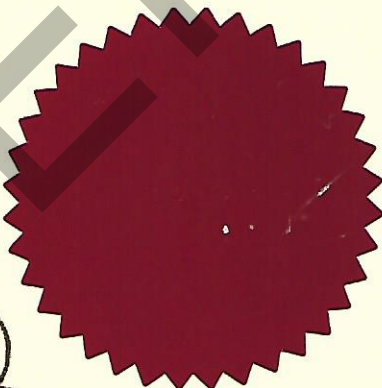
Dengan ini diperakukan

DORATHY PENJINUS (KP : 900626-12-5934)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : Marine Science

Tempoh Sah : 15 Januari 2021 hingga 14 Januari 2023



VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar Negeri Sabah



JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : S0209

Selaras dengan peruntukan di bawah Kaedah - Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

TAI TSUI MAN (KP : 860907-49-6156)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

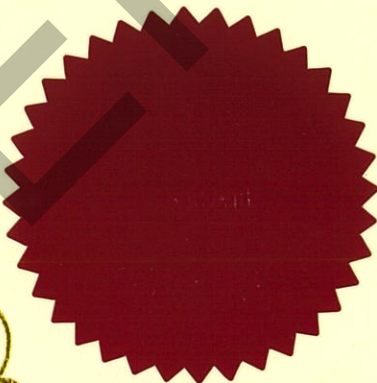
Bidang Kepakaran : Hydrology, Land Use & Waste Management

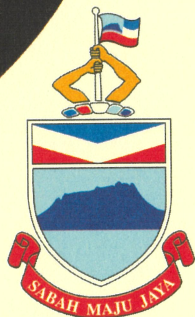
Tempoh Sah : 19 Disember 2020 hingga 18 Disember 2022

.....
VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar Negeri Sabah





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : ...S0218..

Selaras dengan peruntukan di bawah Kaedah-Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

HERWAN WAHIT (KP : 760506-12-5639)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : Health & Safety Management, Noise & Water Quality

Tempoh Sah : 30 Januari 2022 hingga 29 Januari 2024

.....
VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar





JABATAN PERLINDUNGAN ALAM SEKITAR NEGERI SABAH

SIJIL AMALAN

No. Pendaftaran : S0157

Selaras dengan peruntukan di bawah Kaedah-Kaedah Perlindungan Alam Sekitar
(Pendaftaran Perunding Alam Sekitar) 2005

Dengan ini diperakukan

For Envsolve uses Only

YONG KOCK HUI @ ROGER (KP : 721228-13-5391)

Adalah pakar berdaftar dengan Jabatan Perlindungan Alam Sekitar Negeri Sabah
dalam menjalankan Kajian Penilaian Kesan Alam Sekitar (EIA)

Bidang Kepakaran : Geology

Tempoh Sah : 23 November 2021 hingga 22 November 2023

VITALIS J. MODUYING

Pengarah

Jabatan Perlindungan Alam Sekitar





CURRICULUM VITAE - Lo Su Mui

Name : Lo Su Mui

Qualification : Environmental Chemist

Key Qualification : Experience in handling environmental consultancy services including environmental impact and site assessment studies, auditing and monitoring (air, water, noise, stack emission), environmental legislative review and application (licensing/permitting), , environmental training and education course, waste water characteristic studies, waste water treatment management, waste water and water quality analysis, project management, proposals/quotations and contract administration.

Membership : Associate Member of Malaysian Institute of Chemistry, Malaysia.
Registered with Environmental Protection Department, Sabah

Nationality : Malaysian

Race : Chinese

Date of Birth : 10th November, 1971

Place of Birth : Tenom, Sabah

Identification Card No : 711110-12-5172

Education : B. Sc. (Applied Science), Campbell University, USA, 1992-1995

Academic Awards :

Duration	Scholarship Awards
1984-1989	Yayasan Sabah Scholarship
1989	"Hadiah Cemerlang Shell" awarded by Sabah Shell Petroleum Co. Ltd
1990-1991	Bank Negara Malaysia Scholarship

Major Professional Course Involved

19 th June 2008	<ul style="list-style-type: none">- Intrudaction to the US EPA SCREEN3 Model- Intrudaction to the US EPA ISCST3 Model- Intrudaction to Australian AUSPLUME Model- Intrudaction to Meteorological data Pre-Processing and Processing of meteorological data for ISCST3 Model Organized by ENSEARCH .
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18 th June 2008	Seminar On Air Pollution Assessment Course that Cover Introduction to Air Pollution - Elements Of Pollution - Intoduction to Meteorology of Air Pollution
22 nd & 23 rd April 2008	Seminar On Understanding Of environmental Requirement for Industrial Effluent Treatment System /Air pollution Control System organized by Jabatan Alam Sekitar Malaysia dan Institut Alam Sekitar Malaysia (EiMAS).
3 rd April 2008	Seminar On "Siting And Zoining Of Industries" Organized by Department Of Environmental Sabah.
27 th & 28 th March 2008	Seminar 1 st Sabah Surveyor's Congress on Surveyors and The Environment organized by The Institution of Surveyors Malaysia, Sabah Branch.
28 th June 2007	Seminar Penilaian Kesan Alam Sekitar Peraturan dan Garis Panduan organized by Environmental Protection Department Sabah.
21 st March 2007	Organizing Chairman-Solid Waste Management in Kota Kinabalu organized by Institut Kimia Malaysia Sabah & Labuan Branch.
13 th - 15 th June 2005	Shotfirer Course 2005 jointly organised by Jabatan Mineral and Geosains Malaysia and Sabah Quarry Owners Association.
22 nd - 23 rd April 2005	Seminar Persampelan Alam Sekitar organized by Jabatan Kimia Malaysia and Department of Environment, Sabah.
3 rd - 4 th August 2004	Environmental Journalism Workshop jointly organized by The Science and Technology Unit CMD, UMS and Sabah Journalists Association under the BBEC Programme.
27 th September 2004	Bengkel Sistem Penilaian Kesan Alam Sekitar (EIA) organized by Environmental Protection Department. Presented Paper on Techniques/Mechanisms and Challenges of conducting Environmental Monitoring and Compliance Audit Programme in Sabah.
15 th -16 th July 2004	Laboratory Safety Course organized together with other members of Institut Kimia Malaysia Sabah and Labuan F.T.
25 th -26 th May 2004	Kundasang Landslide Complex on Hazard Assessment and Control jointly organized by Institut Alam Sekitar & Pembangunan (LESTARI), UKM and Jabatan Mineral and Geosains Malaysia, Kota Kinabalu, Sabah.
17 th -20 th May 2004	Enviro Course 2004 on EIA jointly organized by UMS, Environmental Protection Department and Sabah Science and Technology Unit.
23 rd April 2004	Career Talk at SM Peter Majuntin, Penampang, Kota Kinabalu, Sabah organized together with other members of Institut Kimia Malaysia Sabah and Labuan F.T and Jabatan Kimia Malaysia.
6 th March 2004	Talk on Nutritional Labeling Regulation, organized by Institut Kimia



	Malaysia and Sabah Confectionery and Bakery Assoc.
15 th -16 th April 2003	Drilling Operation Course jointly organized by Sabah Quarry Owners Association and Jabatan Mineral and Geosains Malaysia.
10 th -11 th October 2002	2 nd Convention on Environment between Sabah and Sarawak organized and hosted by Chief Minister's Department, Sabah in collaboration with Environmental Conservation Department, Sabah.

A. Environmental Impact Assessment (EIA) (2001-2021), Selected Projects related to OPP:-

1. Projek Naik Taraf Jalan Batu 28 Tambunan Tudan Pantai Poring Tuaran, Sabah.
2. Projek Naik Taraf Jalan Tomis-Tiong Ketunuan-Wasai, Kiulu, Tuaran, Sabah.
3. Study for the Proposed Hydro Plant at Sg. Kagibangan, Tambunan, Sabah.
4. Study for the Storage of Schedule Waste at ASB, Ranche-Ranche industrial Estate, F.T. Labuan.
5. Proposed Hotel, Services Apartment & ClubHouse Development (With Subsidiary) & Strata) Title To Applied For) On TL.017538778, Jalan Saman, Kota Kinabalu, Sabah.
6. Kajian Impak Perladangan dan Kilang Kelapa Sawit Serta Bahan-Cemar lain ke atas Kualiti Sungai-Sungai Tertentu di Sabah.
7. The Slope Remedial Works along Jalan Tamaparuli -Ranau, Sabah Package 7 (Sub-Package 7D -KM93.3 Stage II).
8. Proposed Earthwork Activities For the Development of Ancillary Building Railway Yard and Quarters at Kinarut, Sabah.
9. Proposed Amalgamation and subdivision For 650 Units Condominium on CL015110326, 015105745, 015105727, and 015105736, off Mile 3, Jalan Tuaran, Jln Fung Ye Ting, Kota Kinabalu, Sabah.
10. Proposed Amalgamation & Development plan for NT 133058376, 133055142, 133058367, 133062736, 133074281 & 134015080 (577/1117) at Kg. District Of Keningau.
11. Immediate Improvement of Water Supply to Beaufort, Kuala Penyu, and Menumbuk, Sabah.
12. Proposed Crushing Activities on PL18294, Jalan Labuk, Mile 15, Sandakan, Sabah." proposed Drainage Improvement works to western Region of Sungai. Kabuta, Tawau Sabah.
13. Proposed Drainage Improvement works to western Region of Sungai. Kabuta, Tawau Sabah.
14. "Cadangan Pembangunan Projek Sekolah Menengah Kebangsaan Silabukan, Lahad Datu, Sabah"
15. Proposed Double Storey Terrace House on CL 015629802 at Jalan Inanam-Kiansom, Inanam Kota Kinabalu, Sandakan, Sabah.
16. Proposed Housing Development On CL015492449 at Kg. Nountun Kelombong, Kota Kinabalu, Sabah.
17. "Pengambilan Batu dan Pasir Sungai di Kg. Ulu Ranau, Sabah"
18. "Pengambilan Pasir Sungai Tuaran Sambil Menjaga Kelancaran Penyedutan PAM Pengairan di Kg. Labuaya, Tuaran Kota Kinabalu Sabah"
19. Proposed Fuk Tao Lin Sian Temple Development On F.R 895, Inanam, Kota Kinabalu, Sabah.
20. Proposed Development of medical School, University Malaysia Sabah, Kota Kinabalu, Sabah.
21. Proposed 4-story Apartment Development on NT 213189550, NT 213189569, NT213159507 and 19 other Native Land at Kg. Kepayan, District of Penampang Kota Kinabalu, Sabah.
22. Proposed Mixed Commercial Cum Residential Development and Residential Transport Hub on Lot 01200944, 01200688, and Railway Line Reserve at Tanjung Aru, Kota Kinabalu, Sabah.
23. Proposed Pembinaan Jalan Bukit Gading dan Jalan Sungai Nasib, Lihak-Lihak, Semporna, Sabah.
24. Extraction of Earth Material on NT 083024159 for Housing Development at Telupid, District Of Labuk Sugut, Sabah.
25. Proposed Quarry Operation on CL 015081446, NT615 and 015388646at Kg. Mansiang, Menggatal, Sabah.
26. Municipal Solid Waste Sorting, Composting and Recycling Plant at Kayu Madang Sanitary Landfill, Kg. Lapasan, Jalan Gayang, Telipok, Sabah.
27. Proposed Persatuan Taoism San-Ching Development on CL015058474 and Part of CL015058465 at Jalan Kiansom Inanam, Sabah.



28. Proposed Extraction Activities on L215112806 at Kg. Minintod, Jalan Kasigui Minintod, Penampang, Sabah.
29. Proposed Housing, Shop/office and Nursing Home on PL 784 and NT6460 at Kg. Kuai Penampang, Sabah.
30. Proposed Mixed Development of Hotel and Shop Lots with Apartment on Lot 207532616 at Wilayah Persekutuan Labuan, Sabah.
31. "Cadangan Untuk Membina Hotel 12-Tingkat dan Rumah Kelab 2-Tingkat di TL 941, L13138, L13137, L15309 Jalan Beatrice, off Batu 1.5, Jalan Utara Sandakan, Sabah".
32. Proposed Industrial Development on CL075472338 at Jalan Batu Sapi, Sandakan, Sabah.
33. Proposed Ethwork Activities on 024041585 at Kg. Nadutah, Papar, Sabah.
34. "Cadangan Pelaksanaan Projek Pembangunan Perumahan Kos Sederhana dan Kedai di atas Lot CL 075314877 and 075121078 di KM 13, Jalan Labuk Sandakan, Sabah".
35. Earthwork Activities on 193064229, 193027306 and 193029695 at Sindumin, Sipitang, Sabah.
36. Proposed Amalgamation and Subdivision for 552 Units Condominium (Alam Damai) at Luyang, Kota Kinabalu, Sabah.
37. Proposed Development of 1440 Units Loe-Medium Cost Apartment on Lot CL045335064 Telipok, KM24, Jalan Tuaran, Kota Kinabalu, Sabah.
38. Earthwork Activities on CL015486325 (Phase 5, 6, 7 & 8) at Teluk Sepanggar, Menggatal, Kota Kinabalu, Sabah.
39. Proposed Amalgamation and Subdivision for 282 Units Condominium with Communal Facilities on Lots CL015152842 and CL015495084 at Bukit Padang, Kota Kinabalu, Sabah.
40. "Cadangan Membina dan Menimbus 'Esplanade' di Persisir Pantai Pekan Sipitang, Kota Kinabalu, Sabah".
41. Proposed Residential Development on CL015492458 (Remr. of 015092207) and NT013049806, at Kg. Nounton, Inanam, Kota Kinabalu, Sabah.
42. "Cadangan Pelaksanaan Rumah Kos Sederhana dan kedai 1 Tingkat diatas Lot NT7241 di Jalan Minintod, Penampang, Sabah".
43. Proposed Quarry Operation at Kg. Notorus, Penampang, Sabah.
44. Proposed Extraction of Earth Fill Source on CL0523344221 at Part of Lok Kawi Height, District of Papar, Sabah.
45. Proposed Housing Development on CL015267633, CL015028663, CL01528672 and CL015028814 at Kota Kinabalu By Pass, Kota Kinabalu, Sabah.
46. "Cadangan Membina Dan Menyaipkan Semula Ibu Pejabat Polis Daerah Dan Perumahan Polis Diraja Malaysia diatas Lot 117503465, Lahad Datu, Sabah".
47. Proposed Mountain Resort On CL065319315, NT 063079934, NT 063100185 and Part of NT 0631077136 at Kg. Kundasang, Sabah.
48. Proposed Earth Filing on CL015426801 at Kg. Mogumbuk Teluk Likas, Kota Kinabalu, Sabah.
49. Proposed Design and Built of Sipitang Long Term Water Supply Scheme at Sungai Mengalong, Kg. Ulu Sipitang, Sabah.
50. Proposed Quarry Operation on CL225311759, NT 223121284, and 223110978, Kg. Manggaris Longkon Kota Marudu, Sabah.
51. Proposed Sea Reclamation Work on CL 1095007 at Tanjung Batu, Tawau, Sabah.
52. Reuse of Scheduled Waste (Used Oil) on CL 015164208 at Mile 7 1/2, Jalan Tuaran, Kota Kinabalu, Sabah.
53. Extraction of Erath Material on CL075349419 at mile 5, Jalan Utara, Sandakan Sabah.
54. Existing Quarry Operation at NT 12589, NT043125908, NT12591, CL26310, NT12381, NT04316231, CL17123, NT04316123, CL 045152958, NT043145660 and NT043145679 at Tamparuli, Sabah.
55. Proposed Quarry Operation on NT 043196327, NT043188754 and NT 043194270 at Kg. Kopingan, Tuaran Sabah.
56. Proposed Quarry Operation on PL26108, CL105336098, CL105336105, CL105335877, PL10626110, CL105312570, PL106290626, PI15842 and CL105247541 at Mile 9, Apas Road, Tawau, Sabah.
57. Environmental Impact Assessment for Earthwork Activities For The Proposed Water Supply Project At Sg. Mengalong, Sipitang, Sabah (2012).
58. Environmental Impact Assessment For The Existing Quarry Operation On Nt.12589, Nt.12590, Nt.12591, L.26310, Nt.12381, 04316231, L.17123, 04316123, L.15295, Nt.14566 And Nt.14567 at Tamparuli, Sabah (2012).
59. Proposed Residential Development consisting of 7 Levels Parking Podium, a Recreational Podium and 3 Tower Blocks of 26-Storey Residential Tower on CL. 015058518 at Jalan Kolam, Kota Kinabalu [with Subsidiary (Strata) Titles to be Applied for] (2012).



60. Environmental Impact Assessment (EIA) Report for “Aktiviti Kerja Tanah dan Cadangan Pembangunan Projek bagi SMK Tandek II (36 BD) di Lot NT 223124927, NT 223142729, FR 739, Kota Marudu, Sabah untuk Kementerian Pelajaran Malaysia” (2012).
61. Environmental Impact Assessment (EIA) Report for Earthwork Activities for the Proposed 2-Storey Shop/Office and 2-Storey Supermarket on CL.165319737 and CL.165319728 at Tenom Town, District of Tenom, Sabah (2012).
62. Environmental Impact Assessment for Earthwork Activities for Proposed Subdivision & Development of 15 Blocks (136 Units) 2-3 Storey Shoplots on 225312149 at Pekan Kota Marudu, District of Kota Marudu, Sabah.
63. The Proposed Quarry Operation on CL.2253110978, NT.223121284 and NT.223110978, Kg. Manggaris, Langkon, Kota Marudu, Sabah (2013).
64. Environmental Impact Assessment for Development of OPP within part of block YT 2/04 (5,000 ha approximately) at Kalabakan, Sabah.
65. Environmental Impact Assessment for “Cadangan Membina dan Menyiapkan sebuah Sekolah Menengah Kebangsaan Kanibongan yang mengandungi 24 bilik Darjah dan Kemudahan berkaitan di Kanibongan, Pitas, Sabah”.
66. Proposed Housing Development on C.L. 015019940 (10.38 Ac.) at Bukit Padang Phase 1, Luyang, Penampang District, Kota Kinabalu, Sabah.
67. Proposed 15 & 21 Storey Condominium On. C.L. 015124606 at Mile 2, Jalan Tuaran, District Of Kota Kinabalu, Sabah.
68. The Proposed Condominium Development on TL. 017517850, Cl. 015078323 and T.L. 015079848 (With Subsidiary (Strata) Titles to be Applied for) along Jalan Tuaran, Likas, Kota Kinabalu, Sabah.
69. “Projek Naiktaraf Jalan Sook – Tulid – Sinua, Keningau, Sabah (Fasa II)”.
70. The Proposed 5 Units Of 4 Storey Link Villas (With Subsidiary Titles to be Applied for) on CL.015329549, CL.015329558, CL.015411908, CL.015358782 at Taman Kinabalu, Off Jalan Kolam Luyang, District of Kota Kinabalu, Sabah.
71. Environmental Impact Assessment, Topographical Survey and ESCP Report for the Proposed Quarry Operation on FR.104014217, Rangu, District of Tawau, Sabah.
72. Environmental Impact Assessment for Moving Soil and Gravel on Premises No. CL.105342498 located at Rangu, District of Tawau, Sabah.
73. Environmental Impact Assessment For “*Cadangan Membina Sebuah Tokong Cina Nam Tien Kong (Jiu Wang Da Di) Di Atas Tanah 013110971 (Lot 6) & 013110999 (Lot 8) Di Kg. Tatahan, Jalan Kiansom, Inanam, Kota Kinabalu, Sabah*”.
74. Environmental Impact Assessment for “Projek Naiktaraf Jalan Bungallo-Longkou Lama-Timbok, Tuaran, Sabah”.
75. Environmental Impact Assessment for Proposed Sand Mining on PT 2009110083 at Sg. Segama, District of Lahad Datu, Sabah.
76. The Proposed 28 Units 2-Storey Terrace House & 38 Units 2½-Storey Terrace House & 6 Bungalow Lots On 215026289, 01613545 And Part Of 015027688, Off Jalan Penampang Lama, District Of Penampang, Kota Kinabalu, Sabah.
77. Cadangan Membina Jalan Jempangah-Montenior, Beaufort, Sabah.
78. Environmental Impact Assessment for “Projek Jalan Bokara, Sandakan, Sabah”
79. Projek Cadangan Pembinaan Jeti Dan Jambatan Konkrit Baru Di Balembang, Pulau Bum-Bum Semporna, Sabah.
80. Proposed Amalgamation Of Lot Pt 015452990, 015453004, 015453013, 015453022, 015453095, 015453102, 015453111, 015453120, 015453139, 015453148, 015453157, 015453031, 015453040, 015453059, 015453068, 015453077, 015453086, 015453095, Road Reserve (258/989) & State Reserve (0.169ha) For The Development Of 2 Blocks Of 28 Storey Commercial Suite, 1 Block Of 25 Storey Mixed Used (Hotel, Apartments And Office), 1 Multiscreen Cinema And Conference Center On Top Of 5 Storey Retail Podium And Basement Carpark, Plus 1 Office Block Of 10 Storey At Jalan Nenas, Kota Kinabalu District, Sabah.
81. Proposed Development of 130 Unit SOHO Duplex dan Service Apartment 26-Tingkat dan 291 Unit Kedai di atas Tanah CL. 215429324, Jalan Bundusan, Penampang, Sabah.
82. Environmental Impact Assessment to Conduct Replanting For Sijas Estate (823 Ha) At Mile 54, Sandakan, Sabah.



83. Environmental Impact Assessment to Conduct Replanting For Minat Teguh Estate (2,434ha) At Mile 54, Sandakan, Sabah.
84. Projek Menaiktaraf Sistem Bekalan Air di Lahad Datu, Sabah.
85. Proposed 20-Storey Commercial Development (With Subsidiary Strata Title To Be Applied For) On Part Of Cl. 015583963 (Lot 1) at Damai Luyang, Kota Kinabalu District, Sabah.
86. Proposed Mixed Decelopment on Cl. 015276310 And Nt. 5451 At Jalan Sepanggar, Kota Kinabalu, Sabah.
87. Cadangan Ladang Perternakan Ayam Untul Ladang Ternakan Chuan Guan Sdn Bhd Di Cl. 015030770, Batu 3.5, Jalan Kiansom, Kota Kinabalu.
88. Kerja-kerja Peletupan di atas Lot Tanah CL. 125317562, Sigalong Estate, Kalumpang, Daerah Semporna, Sbah.
89. The proposed Linggisian Eco Resot Development on Lot 03307490, Nt 033079886 and 2296, Pulau Mantanani Besar, District of Kota Belud, Sabah.
90. The Proposed Quarry Operation at 173199329, 173199338, 173199356, 173199365, 173199374 and 173199383 at Kg.Balibata, Beaufort, Sabah.
91. Pelan Pembangunan 1 Blok 64 Unit Kondominium, 11-Tingkat di atas Tanah Cl. 215311961, Penempatan Shantung, Penampang Sabah.
92. The Proposed Logging Activities (540 Ha) at Nabawan, Pensiangan, Sabah.
93. Proposed Logging Activities for Area A (515.52 Ha) and Area B (317.42 Ha) within Pensiangan Forest Reserve owned by Majlis Ugama Islam Sabah (MUIS) at Nabawan, Pensiangan, Sabah.
94. Proposed Road Construction in 3 Phases within Sipitang Oil and Gas Industrial Park (SOGIP).
95. The Proposed 9,905.8 Acres of Oil Palm Plantation on CL, 055324797 and PL. 056290085 at Pulau Banggi, Kudat, Sabah.
96. The Proposed Amalgation, Subdivision and Development of Resort (With Subsidiary Title To Be Applied For) Consisting Of : Phase 1: 11 Storey Hotel Suit (200 Rooms) Phase 2: 11 Storey Hotel (250 Rooms). Phase 3: Single Storey Resort Vila (16 Units) and Phase 4: Grand Ball Room On N.T. 183314669 (Lot 1), N.T. 183314678, And N.T. 183379557 At Kampung Bayong, District Of Kuala Penyu, Sabah.
97. Proposed Quarry Activities for 5 years on Part of PL. 016035493, CL. 015024370 and CL. 015026927 at Mile 7 ½ Jalan Inanam, Kota Kinabalu, Sabah.
98. Projek Menaik Taraf Jalan Topokon – Wangkod – Gontung, Tamparuli, Sabah.
99. Proposed Earthwork Activities On Site Preparation For Project Rimbunan Kaseh at Kg.Saga-Saga, Membakut.
100. Proposed Housing Development on Part of CL. 105593271, Imam Estate, Jalan Utara, Tawau, Sabah.
101. Proposed Quarry Operation On CL. 105344081 At Mile 9, Apas Road, Tawau, Sabah.
102. Proposed 4-Storey Kokol Hill Resort at NT. 013106404, Menggatal, Kota Kinabalu.
103. Proposed Sand Mining on PT. 20-04020947 at Sg. Papar, Kg. Rampazan and Processing Site at Kg. Tamoi, Papar, Sabah.
104. Proposed Housing Development Amalgamation & Sub-Division on NT. 213037284 (6.6 Acre) & NT. 213076629 (3.30 Acre) for FCH Lands Sdn Bhd at Kg. Ketiau Putatan Kota Kinabalu.
105. Laporan Meleak & Mmembawa Keluar Batu di Tapak Projek Jalan Telupid-Linayukan-Tongod Sabah (Pakei B-Embankment Failure at km 31, Kg.Tongodon, Tongod).
106. Proposed Sandakan Port Wharf Extension, Sandakan, Sabah.
107. The Proposed 1.994 Acres of Oil Palm Plantation at Pulau Banggi, Kudat, Sabah.
108. Earthwork Activities for The Proposed Chinese Cemetery on 01200841 at Jalan Menggatal, Distrct of Kota Kinabalu (Menggatal Zhong Hua Memorial Park).
109. Merekabentuk, Membina dan Menyiapkan 900 Unit Rumah Teres 1-Tingkat dan Kerja-kerja yang berkaitan dengannya bagi Program Perumahan Rakyat (PPR-Dimiliki) di Ulu Perasan, Daerah Kota Belud, Sabah.
110. Earthwork Activities at Adika Palm Oil Mill At Kuala Puteh, Keningau, Sabah.
111. Earthwork Activities at Ladang Sri Harapan Palm Oil Mill at Telupid, Sabah.
112. "Cadangan Penukaran Gunatanah Dari Ridge Conservation Zone Ke Medium Density Housing Dan Dari Medium Density Housing Ke High Density Housing Di Cl 21552806, Nt 4798 Dan Nt 9422, District Of Penampang, Sabah".
113. Proposed Integrated Glycan Generation And Processing at Poic, Lahad Datu.



114. Proposed Housing Development On CI 015108264, CI 015178453 And CI 015484018 At Menggatal, Kota Kinabalu.
115. Proposed Subdivision, Residential & Commercial Development Consist Of 13-Storey (208 Units) Affordable Apartment (Subsidiary Titles Will Be Applied For), 2 & 3 Storey Shoplots, 2-Storey Market Square, 3-Storey Mall Cum Supermarket, 10-Storey Grand Hotel, 10-Storey College Cum Service Apartments, Petrol Station Lote, Drive-Thru Lot And 1 Lot Of Health Centre On CI 025059616 At Papar, Sabah.
116. Proposed Quarry Operation At 261205 (About 120 Acres), Mile 9, Jalan Apas, Tawau, Sabah.
117. Proposed Road Construction Of Jalan Ansip-Belilin-Dalit, Keningau, Sabah.
118. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Buis Kaibau, Neluran, Sandakan.
119. Cadangan Pembangunan Rumah Pangsa 5 Tingkat di atas Tanah Seluas 15.8 Ekar di NT. 223112034 Kampung 2km dari Pekan Marudu di bawah Program Perumahan Rakyat Termiskin Ppr (Disewa), Jabatan Perumahan Negara Untuk Kementerian Perumahan & Kerajaan Tempatan.
120. Proposed River Stone Extraction at Sg. Ulumuaya, Sipitang, Sabah.
121. Proposed River Sand Extraction at Sg. Lugutan, Sipitang, Sabah.
122. Proposed Sand Extraction on Pt 20-13031009 at Sg. Abai, Kg. Lentigi, Kota Belud, Sabah.
123. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Ansip-Dalit-Kahaba, Keningau, Sabah.
124. Earthwork Activities For The Proposed 68 Units Ready Built Factories Phase 5 (Rbfs) On Part of CL. 01558380 And CL. 015582153 and Dumping Site at IZ10 And IZ11, Kota Kinabalu Industrial Park (K.K.I.P). Kota Kinabalu, Sabah.
125. Proposed Mixed Development Consists of 10 Levels of Podium Building, 2 Levels of Basements Carparks/Supermarket, 1 Block of 23 Levels Affordable Home (253 Units), 1 Block of 30 Levels Condominium (240 Units) 1 Block of 24 Levels Condominium (192 Units) and 1 Block of 24 Levels Hotel (360 Rooms) on La No: 20-14010217/Gazetted Notice Ref No: Jkm.Phb.600-2/4/0/85(23) (With Strata/Subsidiary Titles To Be Applied For) along Jalan Lintas, Luyang, Kota Kinabalu, Sabah.
126. Earthwork Activities For The Proposed Conversion, Subdivision And Development Of 11-Storey And 9-Storey Apartment (With Subsidiary (Strata) Titles To Be Applied For) On Lot Nt. 043120958 At Berungis, District Of Tuaran, Sabah.
127. The Proposed Conversion, Amalgamation And Subdivision Of Residential Development On Nt. 023145619, Nt. 023145600, Nt. 023145628, Nt. 023145637, Nt. 023137902, Nt. 023146205, Nt. 023145593, Nt. 023145584 And Nt. 023137886 At Kg. Melinsung, District Of Papar, Sabah.
128. Projek Menaiktarafkan Jalan Kepayan dari Jambatan Petagas Mengahal ke Persimpangan Lok Kawi, Fasa 1C, Sabah.
129. Addendum for Proposed Shrimp Aquaculture Project at Sungai Telaga, Pitas, Sabah.
130. Projek Pembinaan Jalan Tongod-Pinangah, Pakej 3, Sabah.
131. Cadangan Penyusunan Dan Pembinaan Semula Penempatan Kg.Gana dengan 439.18 Hektar di Kota Marudu , Sabah.
132. Proposed Development of Oil Palm Plantation (Approx. 4,607.50 Ha) At Kalabakan, Sabah.
133. Operasi Kuari Batu Atas Geran Tanah Nt. 12496, Nt. 12497 dan NT. 023176276 di Tampasak, Kinarut, Papar, Sabah.
134. Proposed 5,752 Ha Of Logging & Oil Palm Plantation At Lumiri, Keningau, Sabah.
135. Proposed Quarry Operation at CL. 175325587 at CL. 175325587 at Kg.Binunuk, Beaufort, Sabah.
136. Proposed Quarry Operation On CI. 105335439 At Pasir Putih, Tawau, Sabah.
137. Projek Menaiktarafkan Jalan Saradan-Panimbawan, Tuaran, Sabah.
138. Reassessment Report For The Proposed Stone Quarry And Its Activities At CI 235310344, Nt 233102273, CI 233111334 And CI 053033079 At Kg.Kesagaan, Pitas, Sabah.
139. Proposed Residential Development, Conversion, Amalgamation, And Subdivision On Nt. 023185882 And Nt. 023185917 At Kg. Novoung, Papar.
140. Projek Menaiktaraf Jalan Mesej Ke Timpangoh Laut, Penampang, Sabah.
141. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Moresem Ke Jalan Sukau (Termasuk Pembinaan Jambatan Kinabatangan Ke-2), Kinabatangan, Sabah.
142. Proposed Dredging Activities For Construction Of Finger Jetty (62m) At Salut River, Sabah.
143. The Proposed 1224 Units Of 16, 17, 26 & 27 – Storey Apartment for Prima Housing on CL. 015177634 At Km 6, Off Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
144. Menaiktaraf Jalan Lintas, Kota Kinabalu, Termasuk Tiga Persimpangan Bertingkat (Fasa 2):
 - 1) Persimpangan Jalan Penampang Baru



- 2) Persimpangan Lido
- 3) Persimpangan Lintas Plaza
145. Pembinaan Empangan Air Mentah Bagi Bekalan Air Keningau.
146. Aktiviti Kerja Tanah dan Naik Taraf Jalan Montenior-Halogilat/Beaufort (Fasa II), Sabah.
147. Proposed Prima Housing 1200 Units Apartments (With Subsidiary Title To Be Applied For) On Cl. 015087966 At Jalan Sepanggar, Kg. Rantau, Menggatal, Sabah.
148. Proposed Earthwork Activities at Salambigar, Negara Brunei Darussalam.
149. Projek Menaiktaraf Jalan Pinangah Ke Masaum, Kinabatangan, Sabah.
150. Proposed Mixed Development On 017561867, Kota Kinabalu, Sabah.
151. Aktiviti Penumbusan Laut di Sepanggar Bay On CL. 015580891 (Phase II), Kota Kinabalu, Sabah.
152. Proposed Earthwork For Mixed Resort Development (Strata Title To Be Applied) on Lots FR 054032923, FR 054032941, NT 053081100, NT 053081119, NT 053081888 and NT 053086954 at Kg. Marimbau in District of Kudat, Sabah.
153. Development of Forest Plantation (582 Ha) in Pulau Jambongan, Sabah.
154. Proposed 1,133.2 HA Oil Palm Plantation at Iburu Project Sipitang.
155. Proposed Residential Development complete with Facilities and External Works on CLI. 015062156, Jalan Bambang-Bantayan, Inanam, Kota Kinabalu, Sabah.
156. Proposed Conversion and Subdivision of Mixed Development on Parcel A of Lot 1 (115353083) Render of 115310239, and Proposed Conversion and Subdivision of Five Storey Walk-Up Apartments and 156 Units of Single Storey Terrace House Development on Parcel B of Lot 1 (115353083) Render of 115310239, Jalan Silam, Lahad Datu, Sabah.
157. Pembinaan Jalan Segama Northern Bypass (KM 8.4 to KM 16.9, POIC) Lahad Datu, Sabah.
158. Proposed Earthwork At 213095213 & 213095222, Jalan Penampang-Tambunan, Kg. Kibabag, District Of Penampang, Sabah.
159. Proposed 846 Units 1 & 2 -Storey Terrace House And 10 Units 2-Storey Shop Office On Cl. 115328884, Cl. 115328893, Cl. 115328900, Cl. 115335736 & Cl. 115335727 For Prima Housing Project Along Jalan Segama, Mile 10 ½, District Of Lahad Datu, Sabah.
160. Kerja-Kerja Oembaikan Cerun di Km 55.60 Jalan Kota Kinabalu-Keningau-Tenom, Sabah.
161. Proposed Conversion and Submission for Single Storey Terrace House Development on CL. 02411394, Kinarut Papar District.
162. Earthwork Activities for Proposed Development on FR. 014008934 at Kg. Kibagu, Sepanggar, Kota Kinabalu, Sabah.
163. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah - Environmental Impact Assessment (EIA) For North West Region.
164. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah – Environmental Impact Assessment (EIA) For Outer Kota Kinabalu Ring Road.
165. Proposed Mix Commercial Development On TL. 017561867 And CL. 015707570 Kota Kinabalu Sabah.
166. Proposed Sepanggar Bay Conventional Cargo Terminal (SBCCT) and Sepanggar Bay Oil Terminal (SBOT).
167. Projek Membina Dan Menyiapkan Jalan Semanwang Ke Tanjung Kuala Gum-Gum, Sandakan Sabah.
168. Proposed Rock Blasting Works At Ready Built Factories-Phase 5 (RB5), Kota Kinabalu Industrial Park (KKIP), KK Sabah.
169. “Cadangan Pembinaan 410 Units Rumah Pangsa 5 Tingkat Dan Kerja-kerja Berkaitan Bagi Program Perumahan Rakyat (PPR) Diatas Lot NT. 113005655, Seluas 15.77 Ekar, Mukim Sapagaya, Daerah Lahad Datu, Sabah Untuk : Kementerian Kesejahteraan Bandar Perumahan Dan Kerajaan Tempatan (KPKT)”.
170. Proposed Development on CL. 045115919, Kg. Tenghilan, Jalan Tuaran-Kota Belud, Tuaran, Sabah.
171. Perkhidmatan Perunding Kajian Alam Sekitar (EIA) Bagi Projek Membina Jalan Tawayari, Lahad Datu, Sabah.
172. The Proposed Upgrading Of Jalan Tun Fuad Stephen, Jalan Ums And Jalan Sulaman (Phase 1), Kota Kinabalu, Sabah.
173. The Proposed Residential Development On Part Of Cl. 015055526 At Kg Darau, Jalan Tuaran, Kota Kinabalu, Sabah.
174. The Proposed Construction of Road (6.8 KM) at Labuan FT.
175. “Cadangan pembanguna Ladang Kelapa Sawit Dalam Geran Komunal FR. 164005323 (900ha) Kg. Pongulobon Satu Di Daerah Tenom, Sabah”.
176. For “Cadangan Pembangunan Ladang Kelapa Sawit Dalam Geran Komunal FR. 164005341 (190 ha) Kg.



- Pongulobon Dua Di Daerah Tenom, Sabah.
177. The Proposed Residential Development of 29- Storey Condominium 87 Units on TL. 017528719, Off Jalan Signal Hill Park Kota Kinabalu.
 178. Proposed Tourism and Recreation Resort Development On CL 025370629 (100 Acres) and CL 025348627 & CL 025348636 (5.57 Acres) at Kampung Suoangan, Kinarut, Papar District, Sabah.
 179. Proposed Sea San Borrow Pit Bunburry Shoals.
 180. Quarry Lot 20-14230653 at Kg Bilangau Darat, District of Pitas, Sabah.
 181. Proposed Amalgamation and Sub-Division of Services Apartment on CL 015024370, CL 015023891 & CL 015026927 at Mile 7 ½, Jalan Tuaran, Inanam Kota Kinabalu.
 182. Proposed Amalgamation, Conversion, Subdivision and Development of CL 015024370, CL 015023891 & CL 015026927 Into a Residential Development off Mile 8, Lahad Datu - Kunak Highway, District of Lahad Datu, Sabah.
 183. Proposed River Sand Extraction at PT. 2016100284 (2 Acres) Sungai Brantian, Tawau, Sabah.
 184. For River Sand / Stone Extraction at 97110503 (6 Acres) Sungai Segama, Lahad Datu, Sabah.
 185. Proposed Mix Development of Residential on CL. 015093008 & CL. 05282345 at Kg, Sukang, Jalan Sukang Mabpai, Kota Kinabalu, Sabah (KKMC).
 186. Proposed Kolej Vokasional Berasrama Penuh Serta Lain-Lain Kemudahan Berkaitan Di Kawasan Hub Pendidikan Sandakan, Daerah Sandakan, Sabah.
 187. “Membina & Menaik Taraf Sungai Putatan Dan Kerja-Kerja Berkaitan (Pakej 3), Sabah”.
 188. For Extraction of Stone Located at River Pangapuyan and Processing Site at 224006704 and 224006713 Kota Marudu, Sabah.
 189. Proposed Development at Gantian Bay, Sepangar, Kota Kinabalu, Sabah.
 190. For SLCB Estates – Apas Balung Estate Tawau, Sg Manila Estate Sandakan, Suan Lamba Estate Sandakan and Silabukan Estate Lahad Datu, Sabah.
 191. Logging Operation (840 Ha) at Forest Reserve Kuala Tomani Class II, Tenom, Sabah.
 192. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Sepanjang 27.118 KM Bagi Jalan Lok Kawi-Pengalat-Papar, Sabah.
 193. Extraction of River Stone and Sand Deposit at Sg. Pangapuyan on TOL (JTU(G):800/2223.4.31) and Processing Site at NT.224006704 and NT.224006713, Kota Marudu, Sabah.
 194. Proposed Logging Operation with 150.3 Hectares on Part of FR. 124014946 at Semporna, Sabah.
 195. Earthwork Activities and Proposed 846 Units 1 & 2 Storey Terrace House and 10 Units 2-Storey Shop Office on CL.115328884, CL.115328893, CL.115328900, CL.115335736 & CL.115335727 for Prima Housing Project With 32.70 Hectares Along Jalan Segama, Mile 10 ½, District of Lahad Datu, Sabah.
 196. Logging at TOL 08901275 (PT.86082109) Ulu Lingkabau Sugut, Beluran, Sabah.
 197. Earthwork Activities and Upgrading of 6.27 Km Jalan Ulu Karangan, Beaufort, Sabah.
 198. Earthwork Activities at Proposed Borrow Pit at CL.025152032, Jalan Kelatuan, Papar, Sabah.
 199. River Stone And Sand Mining on NT.063109151 at Kg.Matupang, Ranau, Sabah.
 200. Loggong Operation at Kg.Mindohuan (605.90 Ha), Ranau, Sabah.
 201. Earthwork Activities and Proposed Conversion, Subdivision and Development of 72 Units of 3-Storey Shop Office (With Subsidiary Titles To Be Applied For) at Phase 1, 95 Units Of 2-Storey Terrace House & 32 Units of 2-Storey Semi Detached House at Phase 2 & 3 On C.L. 1655003823 and Dumping Site At Nt.163000566, District of Tenom, Sabah.
 202. Aktiviti Kerja Tanah Dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah.
 203. Proposed Earthwork Activities and Conversion, (From NT to CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Homestay on NT013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu.
 204. Proposed Replanting of Oil Palm Plantation With 1,395.10 Hectares At Ladang Hassan, Sandakan, Sabah.
 205. Proposed Earthwork Activities for Development of Commercial Complex on CL.215429208 and Part of CL.215429324 (3.988 Ha) at Jalan Bundusan, Penampang District Sabah.
 206. Earthwork Activities of Ponds Construction at Sook Estate, Located at Jalan Tulid, Sook Keningau, Sabah.
 207. Earthwork Activities for Proposed Residential Development on Part of CL.175336080, Jalan Taman Wawasan, District of Beaufort, Sabah.
 208. Earthwork Activities And Construction Of Inanam Laut Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) at Inanam, Sabah.
 209. Earthwork Activities And Resort Development Including Road Diversion On CL.185313740, CL.185313731,



- CL.185313713, CL.185313786, CL.185313768 And CL.185313777 at Kampung Bayong, District Of Kuala Penyu, Sabah.
210. Proposed Development of Industrial Buildings & Facilities on LA. 2011010280 (CL. 015702075) at Sepanggar, Kota Kinabalu, Sabah.
211. Earthwork Activities And Proposed Housing Development On Part Of CL.045115919 (29.59 Hectares), Km 4, Jalan Tuaran – Kota Belud, Sabah Consisting of 833 Units of Double Storey Terrace Affordable Homes Under My Home Scheme, 800 Units Of “Projek Perumahan Rakyat” Under “Build & Sell” Scheme and 17 Units of Double Storey Shops (Strata Titles To Be Applied For Lot 2).
212. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ke Mesej Mangalias, Tenom, Sabah.
213. Replanting Activities for Dusun Estate (835 Hectares) Located at Sandakan, Sabah.
214. Earthwork Activities For Proposed Conversion, Amalgamation, Subdivision and Development of NT.043238875, NT.04317179 & NT.043172818 Into A Residential Development At Kg Serusup, District Of Tuaran.
215. Earthwork Activities at Proposed Dumping Site (18.1 Hectare) At CL 015606283, Kingfisher, Kota Kinabalu, Sabah.
216. Proposed Clearing Activities of FR.154000674 (1,200 Ha) at Kg. Tatalaan 1 Joint Venture Between The Beneficiaries of Communal Grant of Kg. Tatalaan 1 With Sentotimber Sdn Bhd, Pensiangan, Sabah.
217. Earthwork Activities And Proposed Amalgamation And Subdivision Of New Water Tank And PPU on CL.025339780 (Individual Title), 2 Blocks of Condominium on CL.025367999, 3 Blocks of Apartment on CL.025368003 and Mixed-Used Development on CL.025368085 & CL.025368076 (Total 15.65 Hectares) at Lok Kawi, District of Papar, Sabah (With Subsidiary (Strata) To Be Applied For).
218. Earthwork Activities for Proposed Conversion, Subdivision and Development of CL. 135314439 into a Housing Development at Kampung Ulu Liawan, District of Keningau.
219. Replanting Activities at Litang Estate (776 Hectares), Lahad Datu, Sabah.
220. Earthwork Activities For Projek Pembinaan Kompleks Sukan Tongod, Sabah.
221. Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar dan 1 Block Dewan Makan, Makmal dan Bengkel KH/PAV Serta Pagar di Sk Pekan Pensiangan Untuk Perluasan Sekolah K9 Di Daerah Nabawan, Negeri Sabah.
222. Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (Sprm) Negeri Sabah.
223. Earthwork Activities for The Proposed Development of KK One For Redevelopment/Rehabilitation of Existing Approved Building Structure Oo Kompleks Star City (Phase IIC) On Part of TL.017546940 & TL.017544713 at Kampung Air, Kota Kinabalu, Sabah.
224. Environmental Impact Assessment Report For Earthwork Activities, Reclamation, And Construction Of Proposed Mixed Development On CL. 015708531 With 1.821 Ha At Sutera Harbour, Kota Kinabalu, Sabah.
225. Proposed Off-Site Scheduled Waste Storage At Kkip, Off Jalan Sepanggar, Kota Kinabalu, Sabah
226. Proposed Logging Activities on Pt.20-20080088 (2,902 Hectares) At Paitan, District of Labuk Sugut, Sabah.
227. Proposed Off-Site Scheduled Waste Storage Facility and Recovery Plant At Part Of CI 015585501, Lot No.13, Dbkk Building No.24, Jalan 1d Kkip Selatan, Iz 3, Kkip, Off Jalan Sepanggar, Kota Kinabalu, Sabah.
228. Earthwork Activities For New Mosque With 6.475 Hectares (Phase 2) On Part Of L.A. 20-15120271, Jalan Seri Melor, District Of Semporna, Sabah.
229. Proposed Oil Palm Replanting Activities (734.88 Hectares) At Pegagau, District Of Semporna, Sabah.
230. Projek Menimbus Tapak (2.026 Ha) Untuk Masjid Baru Di Pekan Daerah Semporna, Sabah.
231. Earthwork Activities and Proposed 30-Storey Condominium (With Subsidiary (Strata) Titles To Be Applied For) On Cl.015001359 (0.77 Hectares) And Access Road On Part Of Cl.017519274 And Tl.017519078 (0.31 Hectares), Jalan Bukit Bendera Upper, Kota Kinabalu, Sabah.
232. Proposed Reclamation And Commercial Development With 1.861 Hectares On Tl.127503548 At Seafront New Township, District Of Semporna, Sabah.
233. Aktiviti Kerja Tanah dan Projek Menaiktaraf Jalan Mangin, Kota Marudu, Sabah.
234. Proposed Logging Activities on Pt.20-20080093 (2,121.8 Hectares) at Paitan, District Of Beluran, Sabah.
235. Earthwork Activities And Proposed 560 Units On 1 Block Of 8-Storey Carpark And Facilities Podium With 2 Towers Of 31 & 32-Storey Condominium On Cl.215417048 And Access Road Upgrading At Donggongan Town, District Of Penampang, Sabah.
236. Earthwork Activities for Proposed Conversion and Subdivision for the Construction of 124 Lots of Single Story Semi Detached House at NT.073051073, Mile 11 ½, Jalan Cina, Off Jalan Labuk, District of Sandakan, Sabah.



237. Proposed Replanting Of Oil Palm Plantation (1,312.47 Hectares) At Marmahat Estate, Labuk Sugut District, Sabah.
238. Aktiviti Kerja Tanah Dan Projek Menaiktaraf Jalan Ke Pekan Baru Pengalungan, Nabawan, Sabah.
239. Aktiviti Kerja Tanah Dan Projek Menaiktaraf Jalan Linayukan Tongod Ke Sinaron, Keningau, Daerah Tongod, Sabah.
240. Proposed Resort Development at CI.015710639 (Formerly Nt.013081948) And Jetty Construction On Pt.20-14010297 At Pulau Gaya, Kota Kinabalu, Sabah.
241. Proposed Rock Extraction And Crushing On Cl. 01558439 (3.589 Hectares) At Mile 7, Inanam, Kota Kinabalu, Sabah.
242. Aktiviti Kerja Tanah Dan Projek Membina Gantian Penuh 12 Bilik Darjah Dan Lain-Lain Kemudahan Di Sekolah Kebangsaan Nampasan, Ranau, Sabah.
243. Integrated Mosaic Planting At Fmu 16 (3,000 Hectares), Sungai Pinangah Forest Reserve, District Of Tongod, Sabah.
244. River Stone And Sand Mining On Nt.063109151 At Kg. Matupang And Processing Site On Nt. 063025356 At Kg. Segindai Lama, Ranau, Sabah.
245. Replanting Of Oil Palm Plantation (884 Hectares) At Morotai Estate, Tawau, Sabah.
246. Earthwork Activities And Proposed Development Condominium With Carpark And Retail With Strata Titles To Be Applied For On CI.015014570 (2.22 Hectares) Off Jalan Tuaran (Beside Taman Fantasi), Kota Kinabalu, Sabah.
247. Earthwork Activities And Proposed Residential Developments On CI 015306699, CI 015306715, CI 015306724, CI 015306733, CI 015306742, And CI 015306751 (4.5 Hectares) And Road Upgrading, At Jalan Asrama, Kota Kinabalu, Sabah.
248. Aktiviti Kerja Tanah Dan Projek Menaiktaraf Jalan Tongod-Pinangah, Tongod, Sabah.

B. Environmental Management Plan (EMP) (2001-2021), Selected Projects related to OPP:-

1. Proposed Combine Cycle 190MW IPP Power Plant Kota Kinabalu.
2. "Cadangan Membina dan Menyiapkan Dewan Kuliah Pusat Ke-2 dan Bangunan Pusat Pengajian Pasca Siswazah, UMS Kota Kinabalu Sabah".
3. Proposed Semporna Sewerage Scheme Phase 1, Semporna for Benua Maxis Sdn. Bhd.
4. Housing Development at Kuala Menggatal, Sabah for Ramindah Sdn. Bhd.
5. Proposed New Nature Township and Tourism Development at Bukit Nenas, Sandakan, Sabah.
6. Environmental Management Plan for Existing Operation of Kapilit Palm Oil Mill for Sabah Softwoods Berhad at Kalabakan, Sabah.
7. Environmental Management Plan for Chipmill for Sabah Softwoods Berhad at Kalabakan, Sabah.
8. The Proposed Earthwork And Infrastructure Works At Jalan Permaisua, Negara Brunei Darussalam.
9. Preparation Of Lahad Datu, Sewerage Scheme (Phase 2), Sabah.
10. Proposed Development Of Customs Department Headquarters On Pt. 20-13010127 Along Sulaman By-Pass Road (Jln Ums) In The District Of Kota Kinabalu, Sabah.
11. Projek Menaiktaraf Jalan dari Donggongan Ke Simpang Jalan Papar Spur (Pakej 2B), Sabah.
12. For "Kerja-Kerja Pembaikan Cerun Di KM 55.60 Jalan Kota Kinabalu-Keningau-Tenom, Sabah.
13. Provision Of Environmental Management Plann (EMP) For Facilities To Sabah Ports Sdn Bhd.
14. For "Membina Jalan Seri Melur Spur, Semporna, Sabah".
15. For The Proposed Construction of Road at Labuan F.T.
16. Project "Pembangunan Lembangan Sungai Bersepadu (PLSB) Sg Moyog, Sabah - Membina dan Menaik Taraf Sungai Putatan dan Kerja-Kerja Berkaitan (Pakej 3), Sabah".
17. "Projek Menyiapkan Kerja-Kerja Dari Pohon Batu (Simpang Tamu) Ke Pancur Hitam, Wilayah Persekutuan Labuan (Fasa 2)".
18. Environmental Management Plan For Projek Pembangunan Fasa Ii Kompleks Pendaratan Ikan Lkim, W.P. Labuan.
19. Environmental Management Plan For Project Jalan Telupid Singgahmata, Beluran, Sabah.
20. Projek Pembangunan Fasa Ii Kompleks Pendaratan Ikan Lkim, W.P. Labuan.
21. Proposed Off-Site Scheduled Waste Storage Att Kkip, Off Jalan Sepanggar, Kota Kinabalu, Sabah.



C. Environmental Impact Statement (EIS) (2001-2013), Selected Projects related to OPP:-

1. Proposed 6.5 Megawatt Small Renewable Energy Biomass Power Plant on CL 08531115, KM 3, Jalan Beluran, Sabah.
2. Proposed Construction of a Palm Oil Mill at CL085330409, Ladang Mamahat, Sabah.
3. Proposed Construction of a Palm Oil Mill at Kalabakan, Tawau, Sabah.
4. Proposed Palm Oil at CL105334996, KM 66, off Tawau Brantian Highway, Tawau, Sabah.
5. Proposed Palm Oil Mill at CL 105322012, Pulau Sebatik, Tawau, Sabah.

D. Proposal Mitigation Measures (PMM) (2001-2020), Selected Projects related to OPP:-

1. Proposed Residential and Commercial Development at Kg. Darau, Menggatal, Kota Kinabalu Sabah.
2. Proposal 80 Units of 5-storey and 10-storey Apartment Development on CL015329405 at Lorong Tahan 3, Taman Sentosa, Luyang Kota Kinabalu Sabah.
3. "Cadangan Pejabat Pencegah Mampakul diatas Lot PT99180037, di Pekan Baru Mampakul Daerah Kuala Penyu, Sabah".
4. Proposed Starnis Resort Development on CL.025344736 at Kg. Melinsung Papar, Sabah.
5. Proposed Commercial Development of Suria Sabah on TL017539810 at Jalan Tun Fuad Stephen, Kota Kinabalu, Sabah.
6. Proposed 5 storey Commercial and Car Park Complex Development on 21124488, 21124454, and 21124768 at Donggongan Town, Penampang, Sabah.
7. Proposed Development of Mega Mall, 12 Story Wisma Maksak, 10- Story Hotel, 2 Blocks of 2 Story Adminstrisrion Blocks and 2 storey Civil Service Museum on TL.017546431, Ceremonial Drive, Likas Kota Kinabalu, Sabah.
8. Proposed Kuala Penyu Bay Beach Resort on FR.3100 & Lot 1 NT.183030686 at Kg. Sabang, District of Kuala Penyu, Sabah.
9. Proposed Development of Resort with 5 Chalets, Function Hall and Jetty at NT 750 at Kulapuan Island, Semporna, Sabah.
10. Proposed 4 Units Of 4-Storey Office / Clinic On Lot 197500851 Pekan Sipitang.
11. Proposed Logging Operation (153 Ha) at Semporna, Sabah.
12. For SLCB Estates – Lormalong Estate Kunak and Merotai Estate Tawau, Sabah.
13. Proposed 2-Storey Seaside Resort on NT 10207 and NT 023225961 at Kg. Kinarut Laut, District of Papar, Sabah.
14. Cadangan Membina Esplanade Dataran Bengkoka, Pitas, Sabah.
15. Kerja – Kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N.444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
16. Proposed Resort and Diving Academy (Phase 2) At Mamutik Island, Kota Kinabalu, Sabah.
17. Replanting of Oil Palm Plantation (464.32 Ha) at Koyah Estate, Kinabatangan, Sabah.
18. Development of Mixed Agricultural Plantation at CL.135325736 (370.03 Ha), Keningau, Sabah.
19. Proposed Oil Palm Plantation (376.68 Ha) at District of Tongod, Sabah.
20. Proposed Oil Palm Replanting Activities at Klias Estate (200 Hectares), District Of Beaufort, Sabah.
21. Replanting Of Oil Palm Plantation At Kandang Besar Estate (192 Ha), Keningau, Sabah.
22. Proposed Resort Development On Tol 10900260 At Celebes Sea, Tawau, Sabah.
23. Oil Palm Replanting Activities On Part Of Pt.90090078 (Block 8 To 11) At Litang Estate (338 Hectares), District Of Lahad Datu, Sabah.
24. Pembinaan Gantian 12 Bilik Darjah Dan Lain-Lain Kemudahan Di Smk Wallace Bay, Tawau, Sabah.



E. Effluent Disposal by Land Irrigation (2001-2013) , Selected Projects related to OPP:-

1. Permohonan Kelulusan Bertulis untuk Pemasangan 1 Unit Penggahar dan 1 unit Cerobong di Telibong Water Supply Project.
2. Application for Approval from DOE Sabah to operate a Premix Plant at Pitas, Sabah.
3. Approval of Inno Works for Composting Plant at Kwantas Palm Oil Mill.
4. Submission of Written Approval for Desilting Work of Anaerobic Pond 2b, Anaerobic Pond 3 and Polishing Pond, Ladang Sabah Palm Oil Mill, Sabah.
5. Submission of Written Approval for Desilting Work of Aerobic Pond 1, Pinang Palm Oil Mill, Sabah.
6. Submission of Written Approval for Desilting Work of Anaerobic Pond 3, Bornion Palm Oil Mill, Sabah.
7. Submission of Application of Written Approval for Two Generator Sets Installed at Optimism Enterprise, Telupid, Sabah.
8. Submission of Application of Written Approval for Two Generator Sets Installed at Aksijaya Sdn. Bhd, Nabawan, Sabah.
9. Submission of Application of Written Approval for Two Generator Sets Installed at ML Sabah Trading, Nabawan, Sabah.
10. Submission of Land Irrigation at Beufort Palm Oil Mill, Sabah.
11. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Leepang, Sandakan, Sabah.
12. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Pamol, Sandakan, Sabah.
13. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Ladang Sabah, Sandakan, Sabah.
14. Submission of Land Irrigation at Ladang Mamahat Palm Oil Mill, Sabah.
15. Submission of Land Irrigation at Atlantica Palm Oil Mill, KM 72, Jalan Sandakan - Telupid, Sandakan, Sabah.
16. Submission of AS PAT for Proposed Asphaltic Concrete Plant at Kg. Bauto, KM 120, Jalan Sandakan - Telupid, Sandakan, Sabah.
17. Submission of Land Irrigation at Ladang Mills Sdn. Bhd., Jalan Sandakan - Telupid, Sandakan, Sabah.
18. Submission of Land Irrigation at Segaliud Palm Oil Mill, Sabah.
19. Submission of Land Irrigation at Sungai Ruku Mill, KM 98, Jalan Sandakan – Lahad Datu, Sandakan, Sabah.
20. Application of Written Approval for Air Pollution Control Equipment (Centrifugal Dust Collector and Bag Filter) at Hevajaya Sdn. Bhd., MMB Timber Complex, Tawau, Sabah.
21. Application of Written Approval for Concrete Batching Plant Installed at Advance Readymix (S) Sdn. Bhd., SEDCO Industrial Estate, Kolombong, Sabah.
22. Application of Written Approval for Fuel Bag Filter at Pauma Enterprise Sdn. Bhd., Mile 9³/₄, Jalan Tuaran, Inanam, Kota Kinabalu, Sabah.
23. Submission of Land Irrigation at Man Choon Estate, Off KM 58, Jalan Labuk, Labuk Sugut, Sandakan, Sabah.
24. Submission of Application of Written Approval for Generator Set Installed at Berkat Setia Mill, Batu 45, Jalan Labuk, Sandakan, Sabah.
25. Submission of Land Irrigation at Kilang Sawit Sg. Tenegang, KM 44, Lebuhraya Lahad Datu - Sandakan, Sandakan, Sabah.
26. Submission of Bio – Polisher System at Bornion Palm Oil Mill, Kota Kinabatangan, Sandakan, KL – Kepong Mill, Tawau – Semporna Highway, Tawau, Pinang Palm Oil Mill, Semporna, Lungmanis Palm Oil Mill, Jalan Tungku, Lahad Datu, Sabah and at Sandakan Bay Palm Oil Mill, KM 54, Jalan Sukau, Kinabatangan, Sandakan, Sabah.
27. Submission of Control Equipment Application for Spray booth Installed at Emasiang Sdn. Bhd., Kawasan MIEL, KKIP, Kota Kinabalu, Sabah.
28. Application of Written Approval for Fuel Burning Equipment (Generator) at Tiara Labuan Hotel, Labuan F.T.
29. Application of Written Approval for Fuel Burning Equipment (Generator) at Sheraton Labuan Hotel, Labuan F.T.
30. Application of Written Approval for Fuel Burning Equipment (Boiler) at Sheraton Labuan Hotel, Labuan F.T.
31. Submission of AP/E/1/01 for a Batching Plant Installed at Cyber City, Kota Kinabalu.
32. Submission of AS PAT for a Batching Plant Installed at Cyber City, Kota Kinabalu.
33. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Pamol, Sandakan, Sabah.
34. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Leepang, Sandakan, Sabah.



35. Permohonan Kebenaran Bertulis Sistem Land Irrigation untuk Kilang Kelapa Sawit Ladang Sabah, Sandakan, Sabah.
36. Submission of Land Irrigation at Ladang Mamahat Palm Oil Mill, Sabah.
37. Submission of Land Irrigation at Atlantica Palm Oil Mill, KM 72, Jalan Sandakan - Telupid, Sandakan, Sabah.
38. Submission of Land Irrigation at Ladang Mills Sdn. Bhd., Jalan Sandakan - Telupid, Sandakan, Sabah.
39. Submission of Land Irrigation at Sungai Ruku Mill, KM 98, Jalan Sandakan – Lahad Datu, Sandakan, Sabah.
40. Submission of Land Irrigation at Man Choon Estate, Off KM 58, Jalan Labuk, Labuk Sugut, Sandakan, Sabah.
41. Application of Effluent Disposal System by Land Irrigation for Sandau Palm Oil Mill and Sebrang Palm Oil Mill, Lahad Datu, Sabah.
42. Application of Written Approval for Installation of TEK Memplus Tertiary Treatment Plant for Melangking Palm Oil Mill, Sabah.
43. Application of Written Approval for Installation of Additional Aeration System at Segaliud Palm Oil Mill, Sabah.
44. Application of Written Approval From Doe To Install Two Fuel Burning Equipments (Gas Turbine) And One Unit Of Generator Set At Tawau, Sabah.
45. Application of Written Approval for Installation of Additional Aeration System at Lam Soon Palm Oil Mill, Sabah.
46. Application of Written Approval for Installation of Polishing Plant for Morisem POM, Sabah.
47. Application of Written Approval for Installation of Polishing Plant for Syarimo POM, Sabah.
48. “Meningkatkan Keberkesanan Sistem Kawalan Pencemaran Udara ‘Asphalt Plant’ Asphamix Sdn Bhd”.
49. Upgrading Capacity Of Fortuna Palm Oil Mill From 45 Mt/Hr To 90 Mt/Hr By Installing Composting Plant at Sandakan, Sabah.
50. To obtain Written Approval of Biogas from DOE for Ladang Sabah Palm Oil Mill at Sandakan, Sabah.
51. Preparation of New “Laporan PAT” for The Proposed Taliwas Palm Oil Mill at CL 1162900049, Mile 3, Jalan Segama, Lahad Datu, Sabah.
52. Application of Written Approval for “Penukaran Had Pelepasan Effluen Bagi Parameter Bod3 Tidak Melebihi 20 Mg/L” At Lam Soon Palm Oil Mill, Sabah

F. Industrial Effluent Characterization Study (IECS)

1. Industrial Effluent Characterization Study at Global Ocean Seafood, KKIP, Sabah.
2. Industrial Effluent Characterization Study at Desa Hatchery, Kinarut, Sabah.
3. Industrial Effluent Characterization Study for Malaysian Mud and Chemicals Sdn. Bhd. At LMP Murphy Oil and LMP Shell SSPC, Labuan.
4. Industrial Effluent Characterization Study (IECS) at Enmore Enterprise Sdn Bhd Premise, Kg. Kibabaig, Penampang, Sabah.

G. Special Impact Study

1. Impact Study of Palm Oil Mills, Oil Palm Plantations and Other Pollutants on the Quality of Selected Rivers in Sabah (Environment Protection Department Sabah).
2. Best Management Practice (BMP) Guidelines for Infrastructural Drainage System and Management of Solid Waste, Sewage and Sullage within Babagon Water Catchment Management Area for DID Sabah.
3. Water Quality Assessment for Tondulu Catchment, Tambunan for DID Sabah.

H. Environmental Monitoring and Compliance Audit (2001-2021), Selected Projects related to OPP:

4. Proposed Agro-Forestry Development at Lot 3, Bonggaya Forest Reserve, Beluran, District, Sabah.
5. Proposed Oil Palm Plantation (OPP) on Lot 2 (10,250 Hectares), Labuk and Sugut, Beluran District, Sabah.
6. Proposed Quarry Operation On PL 26108, CL 105336098, CL 105336105, CL 105335877, PL 10626110, CL 105312570, PL 106290626, L 15842 & CL 105247541 at Mile 9, Apas Road, Tawau, Sabah.
7. Proposed 1 Borneo Development at Sepanggar Bay Road, Near Kampung Pulau Penampang Reserve, Suang Parai, District of Kota Kinabalu, Sabah.
8. Proposed Quarry Operation on CL 235311510, Kampung Salimpodon Darat, Pitas, Kudat Division, Sabah.
9. Proposed Quarry Operation and Related Activities at Lots CL 125312923, 125312932, 125313448,



- 125313457 and 125313466, Semporna, Sabah.
10. Proposed Mountain Resort On CL 065319315, NT 063079934, NT 063079934 and Part of NT 0631077136 at Kg. Kundasang, Sabah.
 11. Proposed GML Quarry of Limestone and Related Activities at KM 63, Tawau/Lahad Datu Highway, Tawau District, Sabah.
 12. Proposed Quarry Operation On NT 043196327, NT 043188754 and NT 043194270 at Kg. Koporingan, Tuaran Sabah.
 13. Proposed Commercial Development on TL 017533505 at Coastal Highway, Kota Kinabalu, Sabah.
 14. Proposed Housing Development on CL 015267633, CL 015028672, CL 015028663 and CL 01502881 at Kota Kinabalu-Tuaran By-Pass, Kota Kinabalu, Sabah.
 15. Proposed Commercial Development of Suria Sabah on TL 017539810 at Jalan Tun Fuad Stephen, Kota Kinabalu, Sabah.
 16. Cadangan Perlaksanaan Projek Pembangunan Rumah Kos Sederhana Rendah dan Kedai di atas Lot NT 7241 dan NT 7248 di Jalan Minintod, Penampang, Sabah.
 17. Proposed housing Development on Phase 5 and Phase 8 at Kuala Menggatal, Kota Kinabalu, Sabah.
 18. Cadangan Perlaksanaan Projek Pembangunan Perumahan Kos Sederhana dan Kedai di atas Lot CL 075314877 dan CL 075121078 di Km 13, Jalan Labuk, Sandakan, Sabah.
 19. T.4961-The Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of the Proposed Minintod 132 KV Transmission System.
 20. Proposed Mixed Development of Hotel and Shoplots Within Apartment on Lot 207532616 at Labuan Federal Territory.
 21. Proposed 4-Storey Apartment on NT. 213160359, CL. 215073626, CL. 215152882 and Part of NT. 5703, Off Jalan Kasigui-Minintod, Bukit Padang, Penampang District, Sabah. (Country Height Apartments).
 22. Proposed Mini Hydro Power Plant Development Under Small Renewable Energy Program at Sungai Pangapuyan, Kota Marudu Sabah.
 23. Proposed Moving soil and Grave on Premises no CL. 105342498 located at Rangu, District of Tawau, Sabah.
 24. Proposed SUDC Housing Development by Sabah Urban Development Corporation Sdn Bhd on Lot CL. 015551087, Kingfisher Park, Kota Kinabalu, Sabah.
 25. Existing Aggregate Quarry on Lots CL. 225311080, NT. 223123626 and NT. 22310323 at Kg. Mangaris, Kota Marudu, Sabah.
 26. Proposed Development of Mega Mall, 12-Storey Wisma MAKSAR, 10-Storey Hotel, 2 Blocks of 2-Storey Administration Block and 2-Storey Civil Service Museum on TL 017546431, Ceremonial Drive, Likas, Kota Kinabalu Sabah.
 27. Existing Quarry Operation on PL 106291605, PL 106177164, CL 105169015 and PL 106291178 at Mile 5, Jalan Sin On, District of Tawau, Sabah.
 28. River Stone Mining on Lots PT. 95030461 and PT. 95030462 along Sg. Kedamaian and Aggregate Crushing Facility on Lots CL. 035161642 AND nt. 033092643 By Kilang Batu No: 2 Kota Belud at Kg. Rajunah, Kota Belud, Sabah, Malaysia.
 29. Proposed New Township and Tourism Development on Parcel B1 and B2 at Bukit Nenas, Sandakan, Sabah.
 30. Proposed Housing Development on CL 015237633, CL 015028672, CL 015028663 and CL 015028814 at Kota Kinabalu-Tuaran By-Pass, Kota Kinabalu, Sabah.
 31. Proposed 21 Units Double-Storey Shopoffice Development on PT 20-04080199 at Jalan Pasar, Beluran, Sandakan.
 32. Projek Naik Taraf Jalan Sook - Tulid Sinua, Keningau, Sabah.
 33. Proposed Residential Development on CL 015492458 (REMR. Of 015092207) and NT. 013049806, at Kg. Nunton, Inanam, Kota Kinabalu.
 34. Proposed Persatuan Taoism San-Ching Development on CL 015058474 and Part of CL 015058465 at Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
 35. Proposed Mixed Commercial cum Residential Development and Transport Hub on Lot 01200688 (PT 20-08010082, 20-08010083, 20-08010084, 20-08010085, 20-08010087 and 20-08010089) at Tanjung Aru, Kota Kinabalu, Sabah.
 36. Proposed Amalgamation, Subdivision and 5-Storey Apartments (with strata title to be applied for) and 2-



- Storey Shops/Office (with individual lot title) Development on CL. 015045057, CL. 045045048, CL. 045269066, CL. 045269057, CL. 015068265, CL. 015067393 and CL. 015045039 at Telipok, District of Kota Kinabalu.
37. Proposed Residential and Commercial Development at Kg. Darau, Menggatal, Kota Kinabalu Sabah.
 38. Proposed Housing Development on CL 015492449 at Kg. Nunton, Kolombong, Kota Kinabalu, Sabah.
 39. The Proposed Commercial and 27 Storey Condominium Development (With Subsidiary [STRATA] Titles to be Applied For) on TL. 017538788, Jalan Haji Saman, Kota Kinabalu, Sabah.
 40. The Scheduled Waste Storage and Recovery Plant at Lot H10(Lot 11370), Asian Supply Base, Ranche-Ranche Industrial Estate, Federal Territory of Labuan.
 41. Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan 1 by Serijaya Industri Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah.
 42. Proposed Sand Mining on PT 2009110083 at Sungai Segama, District of Lahad Datu, Sabah.
 43. Menyiapkan Kerja-Kerja Terbangkalai Projek Menaiktaraf Jalan dari Pohon Batu (Simpang Tamu) ke Pancur Hitam, Wilayah Persekutuan Labuan.
 44. Projek Pembinaan Jalan Dua Jala Dari Uitm ke Sepangar Container Terminal (3KM), Kota Kinabalu, Sabah.
 45. Pembinaan Projek Persimpangan Bertingkat Dan Lorong Ketiga Di Bandaraya Kota Kinabalu, Sabah, (Persimpangan (i) Jalan Lintas/Jalan Kolam (ii) Jalan Lintas/Jalan Tuaran Batu 5½.
 46. Proposed Condominium Development (With Subsidiary (Strata) Titles to be Applied for) on C.L. 015281044 at Miles 3½, Jalan Tuaran, Kota Kinabalu, Sabah.
 47. Proposed Mixed Commercial Development with Purpose Built Medical Centre and Related Facilities on TL. 017549530 at Coastal Highway, Kota Kinabalu, Sabah.
 48. Projek Sistem Bekalan Air Graviti Mukim Keranaan, Ranau, Sabah.
 49. Proposed 100MV Combined Cycle Power Plant on NT. 023159864, NT. 11069, NT. 11068, NT. 11067 and NT. 11066 at Kg. Benoni, District of Papar, Sabah.
 50. Cadangan Pembinaan Jalan Segama Northern Bypass (POIC), Lahad Datu, Sabah.
 51. Prohram Jalan Luar Bandar Negeri Sabah (Projek NKRA) – Jalan Gonipis – Tebobon Kiulu, Tuaran, Sabah.
 52. Cadangan Membina Jalan Jempangah – Montenior, Beaufort, Sabah.
 53. Earthwork Activities for the Proposed Water Supply Project at Sg. Mengalong, Sipitang, Sabah.
 54. Development of Oil Palm Plantation Within Part of Block YT 2/04 (5 000 HA Approximately) at Kalabakan, Sabah.
 55. Projek Pemasangan Paip Bekalan Air ke Pulau Gaya Fasa 1, Kota Kinabalu, Sabah.
 56. The Prosed River Sand Mining Operation at PT 20-12020233, Kg. Manggis, Papar, Sabah.
 57. The Proposed River Sand Mining Operation at PT 20-12020233, Kg. Manggis, Papar, Sabah.
 58. Projek Membina Jalan Kota Marudu – Melinsay – Poring, Ranau, Sabah (110 KM) : Package 2 – Marak Parak to Togop.
 59. River Sand Mining Operation at PT. 20-07020593 and CL. 02549236, Kg. Kogoapon, Papar, Sabah.
 60. River Sand Mining Along Sg. Papar On Lots PT. 20-090020312 And CL. 025342625 (Lot 1A) at Kg. Kabang, Papar, Sabah.
 61. River Sand Operation on NT. 17134757 at Sg. Padas, Kg. Suasa and Processing Site on NT. 6867 at Kg. Poring Lupak, Beaufort, Sabah.
 62. The Proposed River Sand Mining on Lot NT 13670 at Sg. Damit, Ktg. Kosusu, Tuaran, Sabah.
 63. Projek Naik Taraf Jalan Donggongon Ke Simpang Jalan Papar Spur (Pakej 1 – Fasa 2 : Km 6.85 – Km 13.7) di Penampang Sabah, Malaysia.
 64. Projek Naik Taraf Jalan Donggongon Ke Simpang Jalan Papar Spur (Pakej 1 – Fasa 1 : Km 0.375 - Km 6.85) di Penampang, Sabah, Malaysia.
 65. Preparation of Lahad Datu Sewerage Scheme 9Phase 2), Sabah.
 66. Development of Forest Plantation at Jambongan Forest Reserve, Pualau Jambongan, Sabah.
 67. Proposed Sepangar Maitime Serivices Base at Sepangar Bay On CL. 015580891, Kota Kinabalu, Sabah.
 68. Aktiviti Penggalian Pasir Sungai di TOL. 50624, Sg. Tuaran dan Pemprosesan di PT. 20-10040422, Kg. Kuala Sabandar, Tuaran.
 69. Proposed Housing Development on CL 015402623 and CL 015392284 at Jalan Kionsom, Mile 6 1/2, Inanam, Sabah.
 70. Proposed Stone Quarry and its Activities at CL 235310344, NT 233102273, CL 233111334 and CL 053033079 at Kg. Kesagaan, Pitas, Sabah.



71. Projek Naiktaraf Jalan Bungallo-Longkou Lama-Timbok, Tuaran, Sabah.
72. Cadangan Pembinaan Pejabat Daerah Agensi Penguatkuasa Maritim Malaysia di Sandakan, Sabah.
73. Proposed Earthwork Activities and Road Construction in 3 Phases within Sipitang Oil and Gas Industrial Park (SOGIP).
74. Eathwork and Housing Development on C.L. 105593271, Iman Estate, Jalan Utara, Tawau Sabah.
75. Proposed Earthwork Activities for The Housing Development on Nt. 213182444, NT. 213090245, NT. 213090236, NT. 213090227, NT. 213090254, NT. 213090272, NT. 213082298, NT. 213088512 & NT. 21308627 at Kg. Kibabaig, Penampang, Sabah.
76. Reclamation, Dredging, Wharf Construction and Associated Works for The Proposed Container Terminal at Phase 3B, POIC Lahad Datu, Sabah.
77. Pembinaan Jalan Pintas Kg. Gersik, Wilayah Persekutuan Labuan Secara Reka dan Bina.
78. Projek Pembinaan Jalan Maliau Basin (Pakej 1 dan Pakej 2), Kalabakan, Sabah.
79. Proposed Development of Customs Department Headquarters on PT. 20-13010127 Located along Sulaman by-pass Road (Jalan UMS) in the District ok Kota Kinabalu, Sabah.
80. Proposed shrimp Aquaculture Project At Sungai Telaga, Pitas, Including shrimp Ponds and Contruction of Access Roads.
81. Proposed Jalan Libaran bypass for Package 4 in Sandakan, Sabah.
82. Perumahan Negara Lambak Kanan, Housing Contract H40, Earthwork, Infrastructure and High-rise Apartment Blocks, Negara Brunei Darussalam 1.
83. JKP/09/2012 Perumahan Negara Kg.Lugu Design & Build of Eathworks, Infrastructure and 1000 units of High Density Development including Master Planning at Kg. Lugu National Housing Scheme with 24 months, Negara Brunei Darussalam.
84. Replanting of Oil Plam Plantation at Gugusan Sahabat (Dent Penisular) Lahad Datu for Felda Wilayah Sahabat, Sabah.
85. Replanting of Oil Palm Plantation at Gugusan Umas (Brantian) Tawau for Felda Wilayah Shabat, Sabah.
86. Projek Pembaikan Cerun dan Jalan dari Rana uke Tam,bunan Fasa 2B, Sabah.
87. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Topokon – Wangkod – Gontung, Tamparuli, Sabah.
88. Proposed Aggregate Quarry Operation on Lots FR. 014010934 & NT. 0130878 at Sepanggar, Kota Kinbalu, Sabah.
89. Environmental Monitoring and Compliance Audit for Earthworks and Development of Desa Impian Housing and Commercial Development on LA. 01201312000242 at Kuala Inanam, including River Realignment Works.
90. Environmental Monitoring and Compliance Audit Report for “Projek Naiktaraf Jalan Segaman Fasa 1, Lahad Datu”.
91. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Ansip-Dalit-Kahaba, Keningau, Sabah.
92. Akitiviti Kerja Tanah dan Pembangunan 900 unit Rumah Teres 1-Tingkat bagi Program Perumahan Rakyat (PPR-DIMILIKI) Seluas 32.113 hektar di Lot NT.0339377, NT. 033090087 Sebahagian daripada NT. 033126993, CL. 035260363, CL. 035260372 dan 2 Lot Tanah Kerajaan di Ulu Perasam ,Daerah Kota Belud, Sabah.
93. Projk Menaiktaraf Jalan Mesej ke Tipangoh Laut, Penampang, Sabah.
94. Proposed Quarry Operation on CL. 195316431, CL. 195316440, CL. 195316459 and NT. 193075008 at Kg. Samin, District of Sipitang Sabah.
95. The Development Of Forest Plantation In Pulau Jambongan, Sabah (Every 6 Months).
96. Melaksanakan Kerja-Kerja Pengawasan Kualitu Udara (Ambient Air Monitoring) Di Stesen Janakuasa Melawa.
97. Projek Menaiktaraf Jalan Dari Donggongon Ke Simpang Jalan Papar Spur (Pakej 3B) Sabah.
98. Proposed 21-Storey Commercial Development (With Subsidiary Strate Tittle To Be Applied For) ON Part Of CL. 015583963 At Damai Luyang, Kota Kinabalu, Sabah.
99. “Akitiviti Kerja Tanah dan Cadangan Pembinaan Semula Penempatan Kg. Gana Dengan Keluasan 71.92 Hektar di Kota Marudu, Sabah”.
100. The Ambient Air Monitoring At Lahad Datu Sabah.
101. Proposed Logging Activities For Area A (515.52 Ha) And Area B (317 Ha) Within Pensiangan Forest Reserve
Owned By Majlis Ugama Islam Sabah (Muis) At Nabawan Pensiangan Sabah.
102. Environmental Monitoring For Facilities To Sabah Ports Sdn Bhd.
103. Development Of oil Palm Plantation In Communal Grant FR 254000041 In Kampung Kawayoi-Inarad, District



- Of Tongod.
104. Proposed "Pembangunan Tanah dalam Kawasan Geran Kemunal FR 154000567 Sapulut 4, Nabawan, Sabah".
 105. "Aktiviti Penggalan Pasir Sungai di TOL. 50624 Sg. Tuaran, Pemprosesan di PT. 20-10040422, Kg. Kuala Sabandar, Tuaran".
 106. Proposed Amalgamation & Subdivision For Housing Development on CL. 015108264, CL.015 The Proposed Subdivision For 2 Units Double Storey Shophouse, 30 Units Double Storey Semi-Detached and 177 Terrace Housing Development on CL.025318450 with 7.467 HA and proposed Borrow Pit at CL.025023152, CL.025022860 and CL.025022851 with Total 10.778 Ha, District of Papar, Sabah.178453 and CL.015484018 at Menggatal, Kota Kinabalu, Sabah.
 107. The Proposed 68 Units Ready Built Factories Phase 5 (RBF5) and Dumping Sites on Part of CL.015583801, CL. 015582153, CL. 015580953 and CL. 045339320 at Kota Kinabalu Industrial Park (K.K.I.P), Kota Kinabalu, Sabah.
 108. Water Sampling at Tanjung Aru, Kota Kinabalu, Sabah.
 109. The Proposed Mixed Development Consists of 1-Storey Basement, 4-Storey Shop/Office, 6-Storey Carpark, 2-Storey Villa, 2 Block of 32-Storey Condominium, 1 Block of 25 Storey Condominium, 16- Storey Hotel Cum Banquet & 12-Storey Office Block on TL 017546879 at Teluk Likas, Kota Kinabalu, Sabah.
 110. The Existing Quarry Operation at Kampung Timbok, Telipok, Kota Kinabalu, Sabah.
 111. "Proposed 5,752 Ha of Logging Oil Plantation at PT. 20-10151023, Lumiri, Pensiangan, Sabah".
 112. The Proposed Sandakan Port Wharf Extension.
 113. The proposed Rock Blasting Works at Ready Built Factories – Phase 5 (RBF 5), Kota Kinabalu Industrial Park (KKIP), Kota Kinabalu, Sabah.
 114. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Lintas, Bertingkat (Fasa 2): (1) Persimpangan Jalan Penampang Baru, (2) Persimpangan Lido Dan (3) Persimpangan Linyas Plaza.
 115. The Proposed Mix Development of Residential on CL 015093008 & CL 015282345 at Kg. Sukang, Jalan Sukang Mabpai, Kota Kinabalu, Sabah (KKMC).
 116. "Projek Pembangunan Lembangan Sungai Bersepadu (PLSB) Sg. Moyog, Sabah – Membina & Menaik Taraf Sungai Putatan Dan Kerja-Kerja Berkaitan (Pakej 3), Sabah".
 117. Quarry Activities on CL. 125317561, Sigalong Estate, Kalumpang, Daerah Semporna, Sabah.
 118. Project Jalan Ulu Karangan, Beaufort, Sabah.
 119. "Projek Menyiapkan Kerja-Kerja Terbangkalai Projek Menaiktaraf Jalan Dari Pohon Batu (Simpang Tamu) Ke Pancur Hitam, Wilayah Persekutuan Lauan (Fasa 2)".
 120. Proposed Kuala Penyu Bay, Beach Resort on Site Fr. 3100 & Lot 1 NT. 183030686 at Sabang, District of Kuala Penyu, Sabah.
 121. Proposed Replanting of Oil Palm Plantation With 1,395.10 Hectares at Ladang Hassan, Sandakan, Sabah.
 122. Kerja-Kerja Pembersihan Kawasan Skim Penempatan Nabawan, Melalui G.N. 444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
 123. Earthwork Activities and Proposed Conversion, Subdivision and Development of 72 Units of 3 Storey Shop Office (With Subsidiary Titles To Be Applied For) At Phase 1, 95 Units Of 2 Storey Terrace House & 32 Units Of 2 Storey Semi Detached House at Phase 2 & 3 on CL.1655003823 (7.92 Hectares) and Dumping Site at NT.163000566 (2.189 Hectares), District Of Tenom, Sabah.
 124. Proposed Development of Industrial Buildings & Facilities on LA.2011010280 (CL.015702075) at Sepanggar, Kota Kinabalu, Sabah.
 125. Earthwork Activities and Implementation of Pan Borneo Highway, Sabah; WP06 – WP08: Proposed Road Construction From Putatan To Sepanggar and Road Upgrading From Sepanggar To Bulatan Berungis, Sabah For Package WP06 (19.6 Km).
 126. Earthwork and Construction Activities For The Proposed Implementation of Pan Borneo Highway, South-West Region Work Package WP1 – WP4 (110 Km), Districts of Sipitang, Beaufort and Papar, Sabah For Package WP3 (22.376 Km).
 127. Proposed Earthwork Activities and Mixed Development On TL.017561867 (2.428 Hectares) and CL.015707570 (2.428 Hectares), Kota Kinabalu, Sabah.
 128. Aktiviti Kerja Tanah Serta Pembangunan Perumahan Dan Komersil Di Cl. 025214096, Batu 14, Jalan Penampang-Papar, Kinarut, Daerah Papar (6.75 Hektar).
 129. Proposed Replanting of Oil Palm Plantation With 114 Hectares at Lormalong Estate at Kunak, Sabah.



130. Proposed Replanting of Oil Palm Plantation With 196.26 Ha at Merotai Estate at Tawau, Sabah.
131. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah – Menaiktaraf Jalan Dari Kg. Melalia Ke Beaufort (WP02).
132. Development of Forest Plantation (582 Hectares) In Pulau Jambongan, Sabah.
133. Proposed Replanting of Oil Palm on PL.076222574 & PL.076222083, Division C, Fields No. 88c, 92c, 93c and 96c With 157.44 Hectures at Ladang Hassan, Sandakan, Sabah.
134. Earthwork Activities and Construction of Inanam Laut Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works), At Inanam , Kota Kinabalu City, Sabah.
135. Earthwork Activities for Construction of Menggatal Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works), At Menggatal, Kota Kinabalu City, Sabah.
136. Earthwork Activities for Construction of Telibong Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) At Telibong, District Of Tuaran, Sabah.
137. Aktiviti Kerja Tanah, Pembinaan Dan Menaiktaraf Jalan Ke Mesej Mangalias (5m), Daerah Tenom, Sabah.
138. Aktiviti Kerja Tanah Untuk Cadangan Membina Dan Menyiapkan Kolej Vokasional Berasrama Penuh Serta Lain-Lain Kemudahan Berkaitan Di Kawasan Hub Pendidikan Sandakan, Daerah Sandakan, Negeri Sabah.
139. Development Activities of The “Proposed Kota Kinabalu Convention City (KKCC – Phase 1) at Tanjung Lipat, Kota Kinabalu, Sabah.
140. Proposed Gold Mining (Phase 1) on CL.105651438 At Mount Wullersdorf, Tawau, Sabah.
141. Proposed Replanting of Oil Palm Plantation With 114 Ha at Lormalong Estate at Kunak, Sabah.
142. Replanting Activities of 835 Hectares Oil Palm on PL.076290009, PL.076222930, CL.075359616 & CL.075359607 at Dusun Estate, Segaliud, District of Sandakan, Sabah.
- 143.



CURRICULUM VITAE – ROZIYANNA BINTI MANJUIN

Name : Roziyanna Binti Manjuin

Qualification : Environmental Science

Key Qualification : Experience in social impact assessment, environmental consultancy services including auditing and monitoring (Air, Noise, and Water Quality)

Membership : Registered with Environment Protection Department, Sabah (Registration No. S0197)

Nationality : Malaysian

Race : Dusun

Date of Birth : 27th July 1984

Education : B.Sc. Hons (Environmental Science), National University of Malaysia, 2006

Major Professional Course Involved

14th August 2020 Half-Day Training Workshop on Construction Noise Model (RCNM – Software Training) (Organized by SOx NOx Asia Sdn Bhd and EPG International Sdn Bhd)

6th November 2019 Seminar Akta Kualiti Alam Sekeliling 1974 anjuran Kelab JASAbA (Seminar Peraturan-Peraturan Kualiti Alam Sekeliling (Udara Bersih) 2014)

22nd January 2018 Seminar on Environmental Mainstreaming in EIA 2018 oleh Kelab Kebajikan dan Sukan Alam Sekitar (KESAS)

9th – 10th November 2016 Seminar on the New Dimension of EIA in Malaysia 2016 oleh Kelab Kebajikan dan Sukan Jabatan Alam Sekitar (KESAS)

27th October 2016 Seminar Pemuatan Industri dan Guided Self-Regulation (GSR) by DOE

16th – 17th October 2015 Workshop Social Impact Assessment (SIA) for Project Development

23rd April 2015 Seminar on Peraturan-peraturan Kualiti Alam Sekeliling (Udara Bersih) 2014 organized by Department of Environment

22nd – 26th October 2013 Road day (Organized by Jabatan Kerja Raya)

22nd – 23rd June 2012 Seminar on Social Impact Assessment (Organized by Ensearch)



4th - 7th July 2010

Seminar on Dissemination of New Laws under The Environmental Quality Act 1974 (Organized by Ensearch and Department of Environment)

6th May 2010

Forum Bersama Perunding Alam Sekitar, Pemantapan Sistem Penilaian Kesan kepada Alam Sekitar (Organized by Environment Protection Department)

9th December 2009

Forum on Social Impact Assessment of Hillside Development (Organized by Malaysian Association of Social Impact Assessment)

11th June 2009

Seminar on Promotion of Cleaner Production (Organized by Department of Environment)

15th – 17th September 2008

Seminar on Strategic Environmental Assessment (SEA) using RIAM, Organized by Envirolink Sdn. Bhd.

Consultancy Projects Involved

A. Environment Monitoring and Audit Compliance Work

1. Proposed Agro-Forestry Development at Lot 3, Bonggaya Forest Reserve, Beluran District, Sabah.
2. Proposed Oil Palm Plantation (OPP) on Lot 2 (10,250 Hectares), Labuk and Sugut, Beluran District, Sabah.
3. Proposed Quarry Operation on PL26108, CL105336098, CL105336105, CL105335877, PL10626110, CL105312570, PL106290626, PL15842 & CL105247541 at Mile 9, Apas Road, Tawau, Sabah.
4. Proposed 1 Borneo Development at Sepanggar Bay Road, Near Kampung Pulau Penampang Reserve, Suang Parai, District of Kota Kinabalu, Sabah.
5. Proposed Quarry Operation on CL 235311510, Kampung Salimpodon Darat, Pitas, Kudat Division, Sabah.
6. Proposed Quarry Operation and Related Activities at Lots CL 125312923, 125312932, 125313448, 125313457 and 125313466, Semporna, Sabah.
7. Proposed Mountain Resort on CL065319315, NT 063079934, NT 063100185 and Part of NT 0631077136 at Kg. Kundasang, Sabah.
8. Proposed GML Quarry of Limestone and Related Activities at KM 63, Tawau/Lahad Datu Highway, Tawau District, Sabah.
9. Proposed Quarry Operation on NT 043196327, NT043188754 and NT 043194270 at Kg. Koporingan, Tuaran Sabah.



10. Proposed Commercial Development on TL 017533505 at Coastal Highway, Kota Kinabalu, Sabah.
11. Proposed Housing Development on CL 015267633, CL 015028672, CL 015028663 and CL 01502881 at Kota Kinabalu-Tuaran By-Pass, Kota Kinabalu, Sabah.
12. Proposed Commercial Development of Suria Sabah on TL 017539810 at Jalan Tun Fuad Stephen, Kota Kinabalu, Sabah.
13. Cadangan Pelaksanaan Projek Pembangunan Rumah Kos Sederhana Rendah dan Kedai di atas Lot NT 7241 dan NT 7248 di Jalan Minintod, Penampang, Sabah.
14. Proposed Housing Development on Phase 5 and Phase 8 at Kuala Menggatal, Kota Kinabalu, Sabah.
15. Cadangan Pelaksanaan Projek Pembangunan Perumahan Kos Sederhana dan Kedai di atas Lot CL 075314877 dan CL 075121078 di Km 13, Jalan Labuk, Sandakan, Sabah.
16. T.4961 – The Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of the Proposed Minintod 132 KV Transmission System.
17. Proposed Mixed Development of Hotel and Shoplots Within Apartment on Lot 207532616 at Labuan Federal Territory.
18. Proposed 4-Storey Apartment on NT. 213160359, CL. 215073626, CL. 215152882 and Part of NT. 5703, Off Jalan Kasigui-Minintod, Bukit Padang, Penampang District, Sabah. (Country Height Apartments).
19. Proposed Mini Hydro Power Plant Development Under Small Renewable Energy Program at Sungai Pangapuyan, Kota Marudu Sabah.
20. Proposed Moving soil and Grave on Premises no CL.105342498 located at Rangu, District of Tawau, Sabah.
21. Proposed SUDC Housing Development by Sabah Urban Development Corporation Sdn Bhd on Lot CL.015551087, Kingfisher Park, Kota Kinabalu, Sabah.
22. Existing Aggregate Quarry on Lots CL.225311080, NT.223123626 and NT.22310323 at Kg. Mangaris, Kota Marudu, Sabah.
23. Proposed Development of Mega Mall, 12-Storey Wisma MAKSAM, 10-Storey Hotel, 2 Blocks of 2-Storey Administration Block and 2-Storey Civil Service Museum on TL 017546431, Ceremonial Drive, Likas, Kota Kinabalu Sabah.
24. Existing Quarry Operation on PL 106291605, PL 106177164, CL 105169015 and PL 106291178 at Mile 5, Jalan Sin On, District of Tawau, Sabah.
25. River Stone Mining on Lots PT.95030461 and PT. 95030462 along Sg. Kedamaian and Aggregate Crushing Facility on Lots CL. 035161642 and NT. 033092643 By Kilang Batu No: 2 Kota Belud at Kg. Rajunah, Kota Belud, Sabah, Malaysia.



26. Proposed New Township and Tourism Development on Parcel B1 and B2 at Bukit Nenas, Sandakan, Sabah.
27. Proposed Housing Development on CL 015237633, CL 015028672, CL 015028663 and CL 015028814 at Kota Kinabalu-Tuaran By-Pass, Kota Kinabalu, Sabah.
28. Proposed 21 Units Double-Storey Shopoffice Development on PT 20-04080199 at Jalan Pasar, Beluran, Sandakan.
29. Projek Naik Taraf Jalan Sook - Tulid Sinua, Keningau, Sabah.
30. Proposed Residential Development on CL 015492458 (REMR. OF 015092207) and NT. 013049806, at Kg. Nunton, Inanam, Kota Kinabalu.
31. Proposed Persatuan Taoism San-Ching Development on CL 015058474 and Part of CL 015058465 at Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
32. Proposed Mixed Commercial cum Residential Development and Transport Hub on Lot 01200688 (PT 20-08010082, 20-08010083, 20-08010084, 20-08010085, 20-08010087 and 20-08010089) at Tanjung Aru, Kota Kinabalu, Sabah.
33. Proposed Amalgamation, Subdivision and 5-Storey Apartments (with strata title to be applied for) and 2-Storey Shops/Office (with individual lot title) Development on CL.015045057, CL.015045048, CL.015269066, CL.015269057, CL. 015068265, CL.015067393 and CL.015045039 at Telipok, District of Kota Kinabalu.
34. Proposed Residential and Commercial Development at Kg. Darau, Menggatal, Kota Kinabalu Sabah.
35. Proposed Housing Development on CL 015492449 at Kg. Nunton, Kolombong, Kota Kinabalu, Sabah.
36. The Proposed Commercial and 27 Storey Condominium Development (With Subsidiary [STRATA] Titles to be Applied For) on TL. 017538788, Jalan Haji Saman, Kota Kinabalu, Sabah.
37. The Scheduled Waste Storage and Recovery Plant at Lot H10 (Lot 11370), Asian Supply Base, Rancha-Rancha Industrial Estate, Federal Territory of Labuan.
38. Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan I by Serijaya Industri Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah.
39. Proposed Sand Mining on PT 2009110083 at Sungai Segama, District of Lahad Datu, Sabah.
40. Menyiapkan Kerja-Kerja Terbangkalai Projek Menaiktaraf Jalan dari Pohon Batu (Simpang Tamu) ke Pancur Hitam, Wilayah Persekutuan Labuan.
41. Projek Pembinaan Jalan Dua Hala dari UiTM ke Sepangar Container Terminal (3KM), Kota Kinabalu, Sabah.



42. Pembinaan Projek Persimpangan Bertingkat Dan Lorong Ketiga Di Bandaraya Kota Kinabalu, Sabah, (Persimpangan (i) Jalan Lintas/Jalan Kolam (ii) Jalan Lintas/Jalan Tuaran Batu 5½.
43. Proposed Condominium Development (With Subsidiary (Strata) Titles to be Applied for) on C.L.015281044 at Miles 3½, Jalan Tuaran, Kota Kinabalu, Sabah.
44. Proposed Mixed Commercial Development with Purpose Built Medical Centre and Related Facilities on Lot TL.017549530 at Coastal Highway, Kota Kinabalu, Sabah.
45. Projek Sistem Bekalan Air Graviti Mukim Keranaan, Ranau, Sabah.
46. Proposed 100MW Combined Cycle Power Plant on NT.023159864, NT.11069, NT.11068, NT.11067 and NT.11066 at Kg. Benoni, District of Papar, Sabah.
47. Cadangan Pembinaan Jalan Segama Northern Bypass (POIC), Lahad Datu, Sabah.
48. Program Jalan Luar Bandar Negeri Sabah (Projek NKRA) - Jalan Gonipis - Tebobon, Kiulu, Tuaran, Sabah.
49. Cadangan Membina Jalan Jempangah -Montenior, Beaufort, Sabah.
50. Earthwork Activities for the Proposed Water Supply Project at Sg. Mengalong, Sipitang, Sabah.
51. Development of Oil Palm Plantation Within Part of Block YT 2/04 (5 000 HA Approximately) at Kalabakan, Sabah.
52. Projek Pemasangan Paip Bekalan Air ke Pulau Gaya Fasa1, Kota Kinabalu, Sabah.
53. Proposed Sabah International Convention Centre (SICC) At Jalan Tun Fuad Stephens, Kota Kinabalu, Sabah.
54. The Proposed River Sand Mining Operation at PT 20-12020233, Kg. Manggis, Papar, Sabah.
55. Projek Membina Jalan Kota Marudu - Melinsau - Poring, Ranau, Sabah (110KM): Package 2 - Marak Parak to Togop.
56. River Sand Mining Operation at PT.20-07020593 and CL.02549236, Kg. Kogopon, Papar, Sabah.
57. River Sand Mining Along Sg. Papar On Lots PT.20-090020312 And CL.025342625 (Lot 1A) at Kg. Kabang, Papar, Sabah.
58. River Sand Mining Operation on NT. 17134757 at Sg. Padas, Kg. Suasa and Processing Site on NT. 6867 at Kg. Poring Lupak, Beaufort, Sabah.
59. The Proposed River Sand Mining on Lot NT 13670 at Sg. Damit, Kg. Kosusu, Tuaran, Sabah.
60. Projek Naik Taraf Jalan Donggongan Ke Simpang Jalan Papar Spur (Pakej 1 - Fasa 2: Km 6.85 - Km 13.7) di Penampang, Sabah, Malaysia.



61. Projek Naik Taraf Jalan Donggongan Ke Simpang Jalan Papar Spur (Pakej 1 - Fasa 1: Km 0.375 - Km 6.85) di Penampang, Sabah, Malaysia.
62. Preparation of Lahad Datu Sewerage Scheme (Phase 2), Sabah.
63. Development of Forest Plantation at Jambongan Forest Reserve, Pulau Jambongan, Sabah.
64. Proposed Sepangar Maritime Services Base at Sepangar Bay On CL. 015580891, Kota Kinabalu, Sabah.
65. Aktiviti Penggalan Pasir Sungai di TOL. 50624, Sg. Tuaran dan Pemprosesan di PT.20-10040422, Kg. Kuala Sabandar, Tuaran.
66. Proposed Housing Development on CL 015402623 and CL 015392284 at Jalan Kionsom, Mile 6 ½, Inanam, Sabah.
67. Proposed Stone Quarry and its Activities at CL 235310344, NT 233102273, CL 233111334 and CL 053033079 at Kg. Kesagaan, Pitas, Sabah.
68. Projek Naiktaraf Jalan Bungallo-Longkou Lama-Timbok, Tuaran, Sabah.
69. Cadangan Pembinaan Pejabat Daerah Agensi Penguatkuasaan Maritim Malaysia di Sandakan, Sabah.
70. Proposed Earthwork Activities and Road Construction in 3 Phases within Sipitang Oil and Gas Industrial Park (SOGIP).
71. Earthwork and Housing Development on C. L. 105593271, Imam Estate, Jalan Utara, Tawau Sabah.
72. Proposed Earthwork Activities for The Housing Development on Nt.213182444, NT.213090245, NT.213090236, NT.213090227, NT.213090254, NT.213090272, NT.213082298, NT.213088512 & NT.21308627 at Kg. Kibabaig, Penampang, Sabah.
73. Reclamation, Dredging, Wharf Construction and Associated Works for The Proposed Container Terminal at Phase 3B, POIC Lahad Datu, Sabah.
74. Pembinaan Jalan Pintas Kg. Gersik, Wilayah Persekutuan Labuan Secara Reka dan Bina.
75. Projek Pembinaan Jalan Maliau Basin (Pakej 1 dan Pakej 2), Kalabakan, Sabah.
76. Proposed Development of Customs Department Headquarters on PT.20-13010127 Located along Sulaman by-pass Road (Jalan UMS) in the District of Kota Kinabalu, Sabah.
77. Proposed shrimp Aquaculture Project At Sungai Telaga, Pitas, Including shrimp Ponds and Contruction of Access Roads.
78. Proposed Jalan Libaran bypass for Package 4 in Sandakan, Sabah.
79. Perumahan Negara Lambak Kanan, Housing Contract H40, Earthwork, Infrastructure and High-rise Apartment Blocks, Negara Brunei Darussalam1.



80. JKP/09/2012 Perumahan Negara Kg. Lugu Design & Build of Earthworks, Infrastructure and 1000 units of High Density Development including Master Planning at Kg. Lugu National Housing Scheme within 24 months, Negara Brunei Darussalam.
81. Replanting of Oil Palm Plantation at Gugusan Sahabat (Dent Penisular) Lahad Datu for Felda Wilayah Sahabat, Sabah.
82. Replanting of Oil Palm Plantation at Gugusan Umas (Brantian) Tawau for Felda Wilayah Sahabat, Sabah.
83. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Topokon - Wangkod - Gontung, Tamparuli, Sabah.
84. Projek Pembaikan Cerun dan Jalan dari Ranau ke Tambunan Fasa 2B, Sabah.
85. Proposed Aggregate Quarry Operation on Lots FR.014010934 & NT. 013087815 at Sepanggar, Kota Kinabalu, Sabah.
86. Environmental Monitoring and Compliance Audit for Earthworks and Development of Desa Impian Housing and Commercial Development on LA. 01201312000242 at Kuala Inanam, including River Realignment Works.
87. Environmental Monitoring and Compliance Audit Report for "Projek Naiktaraf Jalan Segama Fasa 1, Lahad Datu".
88. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Ansip-Dalit-Kahaba, Keningau, Sabah.
89. Aktiviti Kerja Tanah dan Pembangunan 900 unit Rumah Teres 1-Tingkat bagi Program Perumahan Rakyat (PPR-DIMILIKI) Seluas 32.113 hektar di Lot NT. 0339377, NT. 033090087 Sebahagian daripada NT. 033126993, CL. 035260363, CL.035260372 dan 2 Lot Tanah Kerajaan di Ulu Perasan, Daerah Kota Belud, sabah.
90. Projek Menaiktaraf Jalan Mesej ke Tipangoh Laut, Penampang, Sabah.
91. Proposed Quarry Operation on CL. 195316431, CL. 195316440, CL. 195316459 and NT. 193075008 at Kg. Samin, District of Sipitang Sabah.
92. The Proposed Mix Development of Residential on CL015093008 & CL015282345 at Kg. Sukang, Jalan Sukang Mabpai, Kota Kinabalu, Sabah (KKMC).
93. "Projek Pembangunan Lembangan Sungai Bersepadu (PLSB) Sg. Moyog, Sabah – Membina & Menaik Taraf Sungai Putatan Dan Kerja-Kerja Berkaitan (Pakej 3), Sabah".
94. Quarry Activities on CL.125317561, Sigalong Estate, Kalumpang, Daerah Semporna, Sabah.
95. Project Jalan Ulu Karangan, Beaufort, Sabah.
96. Projek Menyiapkan Kerja-Kerja Terbengkalai Porjek Menaiktaraf Jalan Dari Pohon Batu (Simpang Tamu) Ke Pancur Hitam, Wilayah Persekutuan Labuan (Fasa 2).
97. Proposed Kuala Penyu Bay, Beach Resort on Site Fr. 3100 & Lot 1 NT.183030686 at Sabang, Distrct of Kuala Penyu, Sabah.



98. Aktiviti Kerja Tanah dan Projek Naiktaraf Jalan Dari Kg Bangkulat Ke Kg Imbak (11KM), Tongod, Sabah.
99. Quarry Activities on CL.125317562 at Sigalong Estate, Kalumpang, Semporna, Sabah.
100. Projek Pembaikan Cerun – Cerun Jalan Kota Kinabalu – Sandakan (Laluan Persekutuan 22) Pakej 2 di km 83.90, km 96.70, Ranau, Sabah.
101. Development of Oil Palm Plantation in Communal Grant FR. 254000041 in Kg. Kawayoi-Inarad, District of Tongod, Sabah.
102. Cadangan Pembukaan Tanah Dalam Kawasan Geran Funal FR 1540000567 Sapulut 4, Nabawan, Sabah.
103. Proposed 5,752 Ha of Logging & Oil Palm Plantation at PT.20-10151023, Lumiri, Persiangan, Sabah.
104. Proposed Logging Operation With 150.3 Hectares on Part of FR. 124014946 at Semporna, Sabah.
105. Earthwork and Construction Activities For The Proposed Implementation Of Pan Borneo Highway, South-West Region Work Package WP1-WP4 (110 Km), Districts Of Sipitang, Beaufort And Papar, Sabah For Package WP4 (25 Km).
106. Kerja – Kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N 444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
107. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah-Menaiktaraf Jalan Dari Sindumin ke Kg. Melalia.
108. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah – Menaiktaraf Jalan Dari Kampung Melalia ke Beaufort (WP02).
109. Proposed Sewage Treatment Plant (Phase 1) at Beaufort, Sabah.
110. Earthwork and Construction Activities for The Proposed Implementation of Pan Borneo Highway, South-West Region Work Package WP1 – WP4 (110 KM), Districts of Sipitang, Beaufort and Papar, Sabah for Package WP3 (25KM).
111. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Lintas, Kota Kinabalu Termasuk Tiga Persimpangan Bertingkat (Fasa 2): 1) Persimpangan Jalan Penampang Baru, 2) Persimpangan Lido dan 3) Persimpangan Lintas Plaza.
112. Menaiktaraf Jalan dari Donggongan ke Simpang Jalan Papar Spur, Sabah (Pakej 3B).
113. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Sepanjang 8.1 Kilometer bagi Jalan UMS dan Jalan Sepanggar (R606), Kota Kinabalu termasuk Empat Persimpangan Bertingkat di Persimpangan Kingfisher, Persimpangan UMS, Persimpangan Rampayan dan Persimpangan Sepanggar (Indah Permai).
114. Pembinaan Bangunan Pejabat Jabatan Audit Negara, Negeri Sabah.



115. Proposed Proposed Construction of Kompleks Ibu Pejabat Mahkamah Syariah Negeri Sabah On Lot 01200896 (2.023 Hectares), Teluk Likas, Kota Kinabalu, Sabah.
116. River Stone and Sand Mining Along Sg. Langanan on Lots PL. 066290202 and NT. 063052086, Kg. Napong, Ranau, Sabah.
117. Aktiviti Kerja Tanah untuk Projek Pembinaan Talian Penghantaran 132kV dari Kota Belud ke Ranau, Sabah di sebahagian Tanah Kerajaan dan TL.067500181 Di Bawah Program Bekalan Elektrik Luar Bandar (BELB) Secara Rundingan Terus Reka dan Bina.
118. Proposed Earthwork Activities for SMK Petagas (6.11 Hectares), District of Putatan, Sabah.
119. Kerja-Kerja Pemantauan Alam Sekitar di Tapak Pelupusan Berpusat Keningau, Sabah.
120. “Aktiviti Kerja Tanah, Menaiktaraf dan Membina Jalan Sepanjang 2.35 KM Dari Jalan Sukau ke Jalan J.Kg/Jalan Kg. Sukau, Kampung Sukau, Daerah Kinabatangan, Sabah”.
121. “Proposed Gold Mining (Phase 1) on CL.105651438 at Mount Wullersdorf, Tawau, Sabah”.
122. Aktiviti Kerja Tanah Dan Pembinaan Kompleks Sukan Tongod (4.78 Hektar) Serta Pelupusan Tanah Berlebihan (1.89 Hektar) di Sebahagian Tanah Diwartakan untuk Tapak Mini Kompleks, Tongod Sabah.
123. Earthwork Activities and Resort Development Including Road Diversion on CL.185313740, CL.185313731, CL.185313713, CL.185313786, CL.185313768 and CL.185313777 at Kampung Bayong , District of Kuala Penyu, Sabah.
124. Earthwork Activities and Construction of Inanam Laut Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) at Inanam, Kota Kinabalu City, Sabah.
125. Earthwork Activities for Construction of Menggatal Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) at Menggatal, Kota Kinabalu City, Sabah.
126. Earthwork Activities for Construction of Telibong Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) at Telibong, District of Tuaran, Sabah.
127. Earthwork Activities for the Regeneration of Existing Taman Makmur on Lot 20-14010217 with 2.02 Hectares at Luyang, Off Jalan Lintas, Kota Kinabalu.
128. Aktiviti Kerja Tanah dan Pembinaan Kompleks Sukan Tongod (4.78 Hektar) Serta Pelupusan Tanah Berlebihan (1.89 Hektar) di Sebahagian Tanah Di Wartakan Untuk Tapak Mini Kompleks, Tongod, Sabah.
129. Development of Forest Plantation (582 Hectares) in Pulau Jambongan, Sabah.
130. Proposed Quarry Activities Covering 13.162 Hectares On CL.015067384, CL.015030887, CL.015030896, CL.015083477 & CL.015083486, Mile 7 ½, Jalan Tuaran, Inanam, Kota Kinabalu City, Sabah.
131. Aktiviti Kerja Tanah dan Projek Pembangunan Lembangan Sungai Bersepadu (PLSB) Sg. Moyog, Sabah – Membina dan Menaiktaraf Sungai Putatan dan Kerja – Kerja Berkaitan (Pakej 3), Daerah Putatan, Sabah.



132. Proposed Development of Industrial Buildings & Facilities on LA.2011010280 (CL.015702075) at Sepanggar, Kota Kinabalu, Sabah.
133. Proposed Sapangar Bay Conventional Cargo Terminal (SBCCT) And Sapangar Bay Oil Terminal (SBOT), Sapangar, Kota Kinabalu – For Proposed Sapangar Bay Oil Terminal (SBOT), Sapangar, Kota Kinabalu (1.02 Hectares).
134. Extraction of River Stone and Sand Deposit at Sg. Pangapuyan on Tol [JTU(G):800/2223.4.31] and Processing Site at NT.224006704 and NT.224006713, Kota Marudu, Sabah.
135. Earthwork Activities and Implementation of Pan Borneo Highway, Sabah; WP06 - WP08: Proposed Road Construction From Putatan to Sepangar and Road Upgrading from Sepangar to Bulatan Berungis, Sabah for Package WP06 (19.6 KM).
136. Earthwork Activities and Implementation of Pan Borneo Highway, Sabah; WP06 - WP08: Proposed Road Construction From Putatan to Sepangar and Road Upgrading from Sepangar to Bulatan Berungis, Sabah for Package WP06 (19.6 KM).
137. Proposed Replanting of Oil Palm Plantation With 1,395.10 Hectares at Ladang Hassan, Sandakan, Sabah.
138. Proposed Replanting of Oil Palm Plantation on Division C With 157.44 Hectares at Ladang Hassan Sandakan, Sabah.
139. Proposed Replanting of Oil Palm Plantation With 196.26 Hectares at Merotai Estate at Tawau, Sabah.
140. Proposed Replanting of Oil Palm Plantation With 114 Ha at Lormalong Estate at Kunak, Sabah.
141. Oil Palm Replanting Activities on Part of Pt.90090078 (Block 1 To 8 & 12) at Litang Estate (776 Hectares), District of Lahad Datu, Sabah.
142. Replanting Activities of 835 Hectares Oil Palm on PL.076290009, PL.076222930, CL.075359616 & CL.075359607 at Dusun Estate, Segaliud, District of Sandakan, Sabah.

B. Environmental Monitoring Work

1. Environmental Monitoring Work for Cement Industries Sdn Bhd, Sabah (Sepanggar and Lahad Datu).
2. Industrial Effluent Characterization Study Schlumberger WTA (M) Sdn Bhd.
3. Memperelok Jalan dari KM11 ke KM15. Jalan Bebuluh, Wilayah Persekutuan Labuan.
4. Melaksanakan Kerja-kerja Pengawasan Kualiti Udara (Ambient Air Monitoring) Di Stesen Janakuasa Malawa (SESB).



5. Environmental Monitoring Work for “Five Sites (Pekan Kinabatangan, Labuk, Silam, Kunak and Balung) of Gammerlite Sdn Bhd”.
6. Noise Monitoring for Proposed Sabah International Convention Centre (SICC) at Jalan Tun Fuad Stephens, Kota Kinabalu, Sabah.
7. Water Sampling and Analysis for the “Proposed Aquaculture Prawn Farming (318 Ponds) at Telaga, Pitas, Sabah”.
8. Air and Noise Monitoring at Concrete Mixing Plant at Jalan Timur, Tawau, Sabah.
9. Noise Monitoring for Proposed Development of Mega Mall, 12 Storey Wisma Maksak, 10Storey Hotel, 2 Blocks of 2 storey Administor Block and 2 storey civil service museum on TL017546431, Ceremonial Likas, Kota Kinabalu, Sabah.
10. Monitoring Report for the Proposed Earthwork and Infrastructure Works at Jalan Permaisuaru, Negara Brunei Darussalam.
11. Monitoring at Sg. Balung and Sg. Kawa oil Palm Plantation, Tawau, Sabah.
12. Melaksanakan Kerja-kerja Pengawasan Kualiti Udara (Ambient Air Monitoring) Di Stesen Janakuasa Malawa.
13. Pembinaan Jalan Persisir Pantai Dari Membedai Ke Tanjung Aru, Wilayah Persekutuan Laluan.
14. Project "Pembaikan Semula Cerun-Cerun di KM 15.7 dan KM 50.37, Jalan Merotai Ke Kalabakan, Tawau, Sabah".
15. Projek Jalan Telupid Singgat Mata, Beluran, Sabah.
16. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah-Menaiktaraf Jalan Dari Sindumin ke Kg. Melalia.
17. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah – Menaiktaraf Jalan Dari Kampung Melalia ke Beaufort (WP02).
18. Proposed Sewage Treatment Plant (Phase 1) at Beaufort, Sabah.
19. Earthwork and Construction Activities for The Proposed Implementation of Pan Borneo Highway, South-West Region Work Package WP1 – WP4 (110 KM), Districts of Sipitang, Beaufort and Papar, Sabah for Package WP3 (25KM).
20. Projek Jalan Telupid Singgahmata, Beluran, Sabah.
21. Menaiktaraf Jalan dari Donggongan ke Simpang Jalan Papar Spur, Sabah (Pakej 3B).
22. Pembinaan Bangunan Pejabat Jabatan Audit Negara, Negeri Sabah.
23. Water Quality Monitoring in Ulu Kalumpang-Wullersdorf SFM Project Area.
24. Water Sampling and Analysis For Project Kajian Pelan Induk Saliran Bandar Putatan Selatan, Sabah.
25. Air and Noise Monitoring at Ready Mixed Concrete Batching Plant at Jalan Timur, Tawau, Sabah.



C. Environmental Impact Assessment

1. The Proposed Development of Medical School, University Malaysia Sabah, Kota Kinabalu, Sabah.
2. Proposed Fuk Tao Lin Sian Temple Development on Fr.895, Inanam, Kota Kinabalu, Sabah.
3. “Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan I by Benta Wawasan Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah”.
4. “Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan I by Serijaya Industri Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah”.
5. “Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan I Samel Plantation Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah”.
6. “Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan IIC by Ratus Awansari Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah”.
7. Replanting Oil Palm Trees for Minat Teguh Estate (2,433.87 Ha) at Mile 23, Sandakan.
8. Replanting Oil Palm Trees for Sijas Estate (652.58 Ha) at Mile 54, Sandakan.
9. Proposed Quarry Operation on FR 104014217, part of CL 104014217 and CL. 105363620, Rangu, District of Tawau, Sabah.
10. Moving Soil and Gravel on Premises no. CL. 105342498 Located at Rangu, District of Tawau, Sabah.
11. Existing Quarry Operation on NT.12589, NT.12590, NT.12591, L.26310, NT.12381, L.15295, NT.14566 and NT.14567 at Tamparuli, Sabah.
12. Proposed Quarry Operation on CL.225311759, NT.223121284 and NT.223110978, Kg. Manggaris, Langkon, Kota Marudu, Sabah.
13. Projek Menaiktaraf Jalan Kepyayan dari Jambatan Petagas Menghala ke Persimpangan Lok Kawi, Fasa 1C, Sabah.
14. Proposed Housing Development on CL 21552806, NT 4798 Dan NT 9422 in District of Penampang, Sabah.
15. Earthwork Activities for Proposed Subdivision for 2 Units Double Storey Shophouse, 30 Units Double Storey Semi-Detached and 177 Units Terrace Housing Development on



- CL.025318456, 0.5 Km North-West of Papar Town Centre, District of Papar, Sabah and Proposed Borrow Pits at CL 23152, CL 22860 And CL 22851, District of Papar, Sabah.
16. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Lintas, Kota Kinabalu Termasuk Tiga Persimpangan Bertingkat (Fasa 2): 1) Persimpangan Jalan Penampang Baru, 2) Persimpangan Lido dan 3) Persimpangan Lintas Plaza.
 17. The Proposed Shop 2-3 Storey Shop Office, 2 Storey Terrace House and Semi Detached House on CL.025314096 at Mile 14, Penampang-Papar Road, Kinarut, District of Papar.
 18. Projek Menaiktaraf Jalan Mesej ke Timpangoh Laut, Penampang, Sabah.
 19. Proposed 1,133.2 Ha Oil Palm Plantation at Iburu Project Sipitang.
 20. Aktiviti Kerja Tanah Dan Naik Taraf Jalan Montenior-Halogilat/Beaufort (Fasa II), Sabah.
 21. The Proposed Condominium Development on TL. 017517850, CL. 015078323 and TL. 015079848 (with Subsidiary (Strata) Titles to be applied for) along Jalan Tuaran, Likas, Kota Kinabalu, Sabah.
 22. Earthwork Activities at Ladang Sri Harapan Palm Oil Mill at Telupid, Sabah.
 23. The Proposed 1224 Units of 16, 17, 26 & 27 – Storey Apartment for Prima Housing on CL.015177634 at Km 6, off Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
 24. Cadangan Naiktaraf Jalan Papar dari Bulatan Papar ke Bulatan Benoni, Sabah (Jalan Papar Spur).
 25. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Topokon-Wangkod-Gontung, Tamparuli, Sabah.
 26. Proposed Sand Mining on PT. 20-04020947 at Sg. Papar, Kg. Rampazan and Processing Site at Kg. Tomui, Papar, Sabah.
 27. Earthwork Activities and Housing Development on CL. 105593271 with 40.47 Hectares, Imam Estate, Jalan Utara, Tawau, Sabah.
 28. Quarry Activities on CL. 125317562 at Sigalong Estate, Kalumpang, Semporna, Sabah.
 29. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Melangkap Piasau-Gaur, Kota Belud, Sabah.
 30. Proposed 11-Storey Condominium on CL215311961 on Beverly Hills 3, District of Penampang, Sabah.
 31. Cadangan Membina dan Menyiapkan Sebuah Sekolah Menengah Kebangsaan Anibongan yang Mengandungi 24 Bilik Darjah dan Kemudahan Berkaitan di Kinabongan, Pitas, Sabah.
 32. Aktiviti Kerja Tanah dan Menaik Taraf Jalan Sejauh 3.2 Km Bagi Jalan Kepayan dari Jambatan Petagas Menghala Ke Persimpangan Lok Kawi, Fasa 1C, Putatan, Sabah.
 33. Earthwork activities and housing development on part of CL. 215112806 (L. 11280), NT. 9422 (213176053) and NT. 4798 (213176044) with total 5.39 ha comprising of 6-storey car



- park below and condominium towers (subsidiary title to be applied for) at Kampung Minintod, Jalan Kasigui Minintod, district of Penampang, Sabah.
34. Earthwork activities for proposed subdivision for 2 units double storey shophouse, 30 units double storey semi-detached and 177 units terrace housing development on cl.025318450 with 7.467 ha and proposed borrow pit at CL.025023152, CL.025022860 and CL.025022851 with total 10.778 ha, district of Papar, Sabah.
 35. Proposed quarry operation on CL.105335439 (5.17 hectares) at Pasir Putih, Tawau, Sabah.
 36. Earthwork activities and development of proposed 3-storey shop/office (with subsidiary titles to be applied for) and 3/2½- storey terrace houses on CL. 025314096 (6.75 ha) at mile 14, Penampang-Papar road, Kinarut, district of Papar.
 37. Earthwork activities and development of proposed 3-storey shop/office (with subsidiary titles to be applied for) and 3/2½- storey terrace houses on CL. 025314096 (6.75 ha) at mile 14, Penampang-Papar road, Kinarut, district of Papar.
 38. Earthwork activities at Ladang Sri Harapan palm oil mill on part of CL. 085337515 of 60 hectares, Telupid, Sabah.
 39. Membina jalan Lahad Datu bypass, Lahad Datu, Sabah.
 40. Earthwork activities and development of proposed primary housing 1,200 units apartments (with subsidiary title to be applied for) on CL. 015087966 with 9.11 hectares at Jalan Sepanggar, Kg. Ratau, Menggatal, Sabah.
 41. Proposed Upgrading of Jalan Tun Fuad Stephen, Jalan UMS and Jalan Sulaman (Phase 2), Kota Kinabalu, Sabah.
 42. Proposed Development at Gantian Bay, Sepanggar, Kota Kinabalu, Sabah.
 43. "Projek Menyiapkan Kerja-Kerja Terbangkalai Projek Menaiktaraf Jalan Dari Pohon Batu (Simpang Tamu) Ke Pancur Hitam, Wilayah Persekutuan Labuan (Fasa 2: Ch3+900 Hingga Ch6+609)".
 44. Proposal Sg Moyog, Sabah - Membina & Menaik Taraf Sungai Putatan Dan Kerja-Kerja Berkaitan (Pakej 3), Sabah".
 45. "Projek Pembangunan Lembangan Bersepadu Sg Moyog, Sabah – Membina Dan Menaik Taraf Parit 18A, Kerja Penambahbaikan Parit A Dan Kerja-Kerja Berkaitan Di Sungai Kibabaig (Pakej 1), Sabah".
 46. Project Jalan Ulu Karangan, Beaufort, Sabah.
 47. Proposed 2-Storey Seaside Resort on N.T. 10207 And N.T.023225961 At Kg. Kinarut Laut, District of Papar, Sabah.
 48. Logging Operation (840Ha) At Forest Reserve Kuala Tomani Class II, Tenom, Sabah.
 49. Projek Menaiktaraf Jalan Gading - Gading Semporna, Sabah.



50. Project River Sand and Stone Mining on Lot NT173105907 Along Sg. Padas and Processing Site on Lot CL175282676, at Kg Montenior, Beaufort Sabah.
51. Hydraulic, Marine and Mangrove Ecology Study For Jalan Tun Fuan Stephen, Jalan UMS & Jalan Sulaman, Kota Kinabalu (Phase 2: Roundabout Perkasa To Yayasan Flyover).
52. Projek Menaiktaraf Jalan Dari Kg. Bangkulat Ke kg Imbak, Tongod Sabah.
53. Proposed Construction of Road at Labuan F.T.
54. "Projek Menariktaraf Tapak Pelupusan Sisa Pepejal di Bukit Gemok, Tawau, Sabah".
55. Quarry Operation in Mawau Estate Beaufort, Sabah.
56. Project Naiktaraf Jalan Mesej Kg. Kelanyaan, Tenom, Sabah.
57. Program Penanaman Semula Sawit Tanah Anak Negeri at Binkor Keningau.
58. Proposed Development on C.L. 045115919, Kg Tenghilan, Jalan Tuaran - Kota Belud, Tuaran, Sabah.
59. Proposed Design, Construction, Completion and Commissioning of Semporna Water front Mixed Development Inclusive of 42 Acres of Reclamation Works, Common Facilities and Common Infrastructure / External Works on Lot 127501339 Mukim Semporna, Daerah Tawau, Sabah for MESSRS SEDCO.
60. Sand Mining / Stone Extraction for Applied TOL 20-16081502, Sg Labuk Kg Buis, Telupid, Sabah.
61. Cadangan Merekabentuk, Membina dan Menyiapkan 500 unit Rumah Kluster 1 Tingkat Dan Kerja-Kerja Berkaitan Bagi Program Perumahan Rakyat (PPR) Tagasan Di Atas Lot CL 125324003 & CL 125324012, Seluas 61.34 Ekar, Kampung Tagasan Daerah Semporna Sabah.
62. Perlaksanaan Projek Lebuhraya Pan Borneo Sabah - Tawau Coastal Road (Work Package WP15A).
63. Proposed Conversion (From NT. To CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Chalets on NT 013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu.
64. Projek Jalan Suang Duyung Ke Kg. Tanjung Layak - Layak Pitas, Sabah.
65. Aktiviti Kerja Tanah Untuk Tujuan Menaiktaraf Sistem Bekalan Air Di Lahad Datu.
66. Pelaksanaan Projek Lebuhraya Pan Borneo Sabah - Menaiktaraf Jalan Dari Bongawan Ke Papar (WP04).
67. Proposed Earthwork Activities for SMK Petagas (6.11ha), District of Putatan, Sabah.
68. Perlaksanaan Projek Lebuhraya Pan Borneo Sabah - Cadangan Membina Jalan Dari Beaufort Ke Bongawan (WP03).
69. Proposed 10mw AC Solar Photovoltaic Plant Located at CL075487786, Luboh Estate, Sandakan, Sabah.



70. Earthwork Activities at Proposed Borrow Pit at CL.025152032, Jalan Kelatuan, Papar, Sabah.
71. Proposed Conversion, Subdivision and Development of 72 Units of 3-Storey Shophouse at Phase 1, 95 Units of 2-Storey Terrace House & 32 Units of 2-Storey Semi-Detached House at Phase 2 & Phase 3 On CL.165003823, District of Tenom, Sabah.
72. Proposal for An Estimated 276 ha Mitigation Measures (PMM) for Oil Palm Plantation at Litang Estate, Lahad Datu.
73. Projek Menaiktaraf Jalan Pintas Kubu, Beaufort Sabah.
74. Proposed New Quarry on Part of CL125327700 (Approximately 5 Hectares) Located at Batu 6, Jalan Gulung - Gulung, Semporna Sabah.
75. Logging at TOL 08901275 (PT.86082109) Ulu Lingkabau Sugut, Beluran, Sabah.
76. Projek Jalan Telupid Singgahmata, Beluran, Sabah.
77. Perlaksanaan Projek Lebuhraya Pan Borneo Sabah - Menaiktaraf Jalan Dari Kampung Melalia ke Beaufort (WP02).
78. Kerja-Kerja Pembersihan Kawasan SKIM Penempatan Nabawan Melalui G.N.444-69 Seluas 500 Hektar.
79. Proposed Temporary Structure (Tents and Others Building) as camp Ground Facilities on NT143100556 and part of NT143079547 at Kg. Kaingaran Tambunan Sabah.
80. Earthwork Activities at Proposed Borrow Pit on NT.173039739, SN.173060814, SN.173045942, SN.173043418 and SN.173045951 at Kg. Tandoi and Dumping Site on NT.173123825, NT.173123816, NT.173123807, NT.173135316 and NT.173135325 at Kg. Lumat Mawao, Beaufort. (WP03).
81. Proposed Amalgamation and Subdivision of Warehouse Development On CL 025339780 (individual Titles), 3 Blocks Of Condominium On CL 025367999, 8 Blocks of Apartment On CL 025368003 AND Mix-Used Development On CL 025368085 & CL 025368076 At Lok Kawi, District Of Papar, Sabah.
82. Proposed 30-Storey Condominium (With Subsidiary (Strata) Titles To Be Applied For) On CL.015001359, Jalan Bukit Bendera Upper, Kota Kinabalu, Sabah.
83. Proposed Housing Development on CL.015009793 & CL.015005106 at Jalan Pinggir, Kota Kinabalu, Sabah.
84. Earthwork Activities at Proposed Borrow Pit on Part of CL.175346666 at Kg. Lumat and Dumping Sites on CL.175275706 and CL.175007860 at Kg. Lumat, Beaufort. (WP03).
85. Proposed Priority Roads Projects in Kota Kinabalu, Sabah (Site No.2 - Jalan Kolam).
86. Tanah PT.2016101096 Seluar 5 Ekar Untuk Tujuan Mengambil Pasir Sungai atas Syarat TOL di Sungai Jambatan Putih Tawau Oleh Sukina Binti Syukur.
87. Projek Jambatan Kinabatangan Ke-2, Sukau, Kinabatangan, Sabah.



88. Earthwork Activities For New Mosque With 6.475 Hectares (Phase 2) On Part Of L.A. 20-15120271, Jalan Seri Melor, District Of Semporna, Sabah.
89. Proposed Logging Activities On Pt.20-20080088 (2,902 Hectares) At Paitan, District Of Labuk Sugut, Sabah.
90. Activities, Reclamation, And Construction Of Proposed Mixed Development On CL. 015708531 With 1.821 Ha At Sutera Harbour, Kota Kinabalu, Sabah.
91. Aktiviti Kerja Tanah Dan Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) Di Sebahagian CL.015694381, Kota Kinabalu, Sabah.
92. Earthwork Activities for The Proposed Development of KK One For Redevelopment/Rehabilitation of Existing Approved Building Structure Oo Komplek Star City (Phase IIC) On Part of TL.017546940 & TL.017544713 at Kampung Air, Kota Kinabalu, Sabah.
93. Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) Negeri Sabah.
94. Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar dan 1 Block Dewan Makan, Makmal dan Bengkel KH/PAV Serta Pagar di Sk Pekan Pensiangan Untuk Perluasan Sekolah K9 Di Daerah Nabawan, Negeri Sabah.
95. Earthwork Activities For Projek Pembinaan Komplek Sukan Tongod, Sabah.
96. Project Menbina Jalan Tawayari, Lahad Datu, Sabah.
97. Porposed Clearing Activities of FR.154000674 (1,200 Ha) at Kg.Tatalaan 1 Joint Venture Between The Beneficiaries of Communal Grant of Kg.Tatalaan 1 With Sentotimber Sdn Bhd, Pensiangan, Sabah.

D. Proposal for Mitigation Measures

1. Proposed 4-Storey apartments Development of Cyber City Apartment on NT.213189550, NT.213189569, NT.213159507 and 20 Others Native Land at Kampung Kepayan, District of Penampang, Kota Kinabalu, Sabah.
2. Proposed Sandakan Port Wharf Extension, Sandakan, Sabah.
3. Proposed Resort and Diving Academy (Phase 2) At Mamutik Island, Kota Kinabalu, Sabah.
4. Replanting of Oil Palm Plantation (464.32 Ha) at Koyah Estate, Kinabatangan, Sabah.
5. Development of Mixed Agricultural Plantation at CL.135325736 (370.03 Ha), Keningau, Sabah.
6. Proposed Oil Palm Plantation (376.68 Ha) at District of Tongod, Sabah.
7. Replanting Of Oil Palm Plantation At Kandang Besar Estate (192 Ha), Keningau, Sabah.
8. Proposed Resort Development On Tol 10900260 At Celebes Sea, Tawau, Sabah.



9. Proposed Replanting of Oil Palm Plantation with 157.44 Hectares at Ladang Hassan, Sandakan, Sabah.
10. Proposed 2-Storey Seaside Resort on NT.10207 and NT.023225961 at Kg. Kinarut Laut, District of Papar, Sabah.
11. Kerja – Kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N.444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
12. Logging Operation at TOL 08901275 (PT. 86082109) With 161.6 Hectares at Ulu Lingkabau Sugut, Beluran, Sabah.
13. Proposed Subdivision, Residential & Commercial Development Consist of 13-Storey Affordable Apartment (2- Tower, Subsidiary Title Will be Applied For), 2 & 3-Storey Shoplots, 1-Storey Market Square, 3-Storey Mall cum Supermarket, 2-Storey College, Petrol Station Lot and Drive-Thru Lot on CL.025059616 with Total 18.26 Hectares at Papar, Sabah.
14. Development of Resort Consisting of: Phase 1: 10-Storey Hotel Suit (150 rooms), Phase 2: 11-Storey Hotel (250 rooms), Phase 3: Single Storey Resort Villa (8 units), 3-Storey Resort Villa (6 units) and Phase 4: Grand Ball Room on N.T. 183314669 (Lot 1), N.T. 183314678, and N.T. 183319557 at Kampung Bayong, District of Kuala Penyu, Sabah.
15. Proposed Sandakan Port Wharf Extension, Sandakan, Sabah.
16. Proposed Linggisian Eco Luxury Resort Development Phase 1 on Lot NT.03307490, NT.033079686 and NT.2296, Pulau Mantanani Besar, District of Kota Belud, Sabah.
17. Proposed Commercial Development 19-Unit 2 Storey Shop Office on PT. 84190069 at Pekan Sipitang.
18. Proposed 4-story Apartment Development on NT 213189550, NT 213189569, NT213159507, and 19 Other native Land at Kg. Kepayan, district of Penampang Kota Kinabalu, Sabah.

E. Reassessment Report for EIA

1. Reassessment Report for Perlaksanaan Kaedah Penanaman “Terracing” Mengantikan Kaedah “Lavang” untuk Agro Projek di Hutan Simpan Bonggaya”oleh Kelola Maju Sdn Bhd.
2. Reassessment Report for Perlaksanaan Kaedah Penanaman “Terracing” Mengantikan Kaedah “Lavang” untuk Agro Projek di Hutan Simpan Bonggaya”oleh Ikatan Kayangan Sdn Bhd.
3. Reassessment Report for Perlaksanaan Kaedah Penanaman “Terracing” Mengantikan Kaedah “Lavang” untuk Agro Projek di Hutan Simpan Bonggaya”oleh Arus Sawit Sdn Bhd.



4. Reassessment Study for The Proposed Tourist Recreational and Commercial Development (Phase II- KK Times Square) on TL 017533505 along Coastal Highway at Sembulan, Kota Kinabalu, Sabah.
5. Reassessment Study for The Projek Pembinaan Jalan Dua Hala dari UiTM ke Sepangar Container Terminal (3KM), Kota Kinabalu, Sabah.
6. Reassessment Report for “Pembinaan Jalan Segama Northern Bypass (KM 8.4 to KM 16.9, POIC) Lahad Datu, Sabah”.

F. Environmental Management Plan (EMP)

1. Environmental Management Plan for Cadangan Projek Pembangunan Tapak Pelupusan Sampah Perbadanan Labuan di Bukit Kallam, Wilayah Persekutuan Labuan (Tapak Baru).
2. The Scheduled Waste Storage at Lot H10 (Lot 11370), Asian Supply Base, Ranche-Ranche Industrial Estate, Federal Territory of Labuan.
3. The Scheduled Waste Storage and Recovery Plant at Lot H10 (Lot 11370) at Asian Supply Base, Ranche-Ranche Industrial Estate, Federal Territory of Labuan – Combine EMP.
4. The Proposed Construction of 350,000 PE Regional Sewage Treatment Plant (STP) at Inanam, Sabah.

G. Environmental Management and Monitoring Plan (EMMP)

1. JKP/09/2012 Perumahan Negara Kg. Lugu Design & Build of Earthworks, Infrastructure and 1000 units of High Density Development including Master Planning at Kg. Lugu National Housing Scheme within 24 months, Negara Brunei Darussalam.
2. Proposed Earthwork and Infrastructure Works at Jalan Permaisuaru, Negara Brunei.

H. Special Study

1. Penyediaan Prosedur Tetap Operasi Dan Garis Panduan Pelaksanaan Pematuhan sendiri Bagi Pematuhan Syarat-Syarat Alam Sekitar untuk Aktiviti Peladangan Kelapa Sawit Di negeri Sabah, for EPD Sabah.
2. Kajian Penyediaan Pelan Tindakan bagi Meningkatkan Tahap Pematuhan Syarat-Syarat Alam Sekitar bagi Aktiviti Pembangunan di Negeri Sabah



I. **Social Impact Assessment**

1. Atlantica Palm Oil Mill and Andum Estate, Located at KM 72, Jalan Sandakan - Telupid, Sandakan Sabah.
2. Ladang Hassan Estate (1,395.10Ha) Located at Sandakan, Sabah.
3. Ladang Hassan Estate (157.44Ha) and Palm Oil Mill Located at Sandakan, Sabah.
4. Participatory Social Impact Assessment (P-SIA) for the “Shrimp Farm of Sankina Aquaculture Sdn Bhd in Tawau, Sabah, Malaysia”.

**CURRICULUM VITAE – Festory @ Fasther Gadana**

Name : Festory @ Fasther Gadana

Qualification : GIS Analyst

Key Qualification : Experience in Geographic Information System (GIS) / Mapping

Membership : Registered with Environment Protection Department, Sabah (S0115)

Nationality : Malaysian

Race : Bumiputera Sabah

Date of Birth : 17th December, 1975

Place of Birth : Tanjong Kapor, Kudat, Sabah

Identification Card No : 751217-12-5371

Education : Bachelor of Surveying (Geoinformatics), University Technology of Malaysia, Skudai, 1999
Diploma of Land Survey, University Technology of Malaysia, Skudai, 1996

Awards :

Duration	Awards
1998	Dean's List Award by University Technology of Malaysia
1999	Dean's List Award by University Technology of Malaysia



Major Consultancy Projects Involved

A. Environmental Impact Assessment (EIA) (2001-2021) :

1. Proposed Jetty Development at Pulau Tiga Kuala Penyu, Sabah.
2. Proposed Starnis Resort Development on CL 025344736 at Kg. Melinsung, Papar, Sabah.
3. Proposed Mixed Commercial Cum Residential Development and Transport Hub on Lot 01200688 and Railway Line Reserve at Tanjung Aru, Kota Kinabalu, Sabah.
4. Proposed Pembinaan Jalan Bukit Gading dan Jalan Sungai Nasib/Lihak-Lihak, Semporna, Sabah.
5. Extraction of Earth Material on NT 083024159 for Housing Development at Telupid, District of Labuk Sugut, Sabah.
6. Proposed Quarry Operation on CL015081446, NT615 and 015388646at Kampung Mansiang, Menggatal, Sabah.
7. Proposed Development of Mega Mall, 12-Storey Wisma Maksak, 10-Storey Hotel, 2 Blocks of 2-Storey Administration Block and 2-Storey Civil Service Museum on TL 017546431, Ceremonial Drive, Likas, Kota Kinabalu, Sabah (KK Mega Mall).
8. Municipal Solid Waste Sorting, Composting and Recycling Plant at Kayu Madang Sanitary Landfill, Kg. Lapasan, Jalan Gayang, Telipok, Sabah.
9. Proposed Persatuan Taoism San-Ching Development on CL015058474 and Part of CL015058465 at Jalan Kiansom Inanam, Sabah.
10. Proposed Extraction Activities on L215112806 at Kg. Minintod, Jalan Kasigui Minintod, Penampang, Sabah.
11. Proposed Housing, Shop/Office and Nursing Home on PL 784 and NT6460 at Kampung Kuai, Penampang, Sabah.
12. Proposed 6.5 Megawatt Small Renewable Energy Biomass Power Plant on CL.08531115, KM3, Jalan Beluran, Sabah.
13. Proposed Mixed Development of Hotel and Shop Lots with Apartment on Lot 207532616 at Wilayah Persekutuan Labuan, Sabah.
14. "Cadangan untuk Membina Hotel 12-Tingkat dan Rumah Kelab 2-Tingkat di TL 941, L13138,L13137, L15309 Jalan Beatrice, off Batu 1.5, Jalan Utara, Sandakan , Sabah".
15. Proposed Industrial Development on CL075472338 at Jalan Batu Sapi, Sandakan, Sabah.
16. Proposed Earthwork Activities on CL024041585 at Kg. Nadutah, Papar, Sabah.



17. "Cadangan Perlaksanaan Projek Pembangunan Perumahan Kos Sederhana dan Kedai di atas Lot CL 075314877 and 075121078 di KM 13, Jalan Labuk Sandakan, Sabah".
18. Earthwork Activities on 193064229, 193027306 and 193029695 at Sindumin, Sipitang, Sabah.
19. Proposed Amalgamation and Subdivision for 552 Units Condominium (Alam Damai) at Luyang, Kota Kinabalu, Sabah.
20. Proposed Development of 1440 Units of Low- Medium Cost Apartment (Strata Title and other Related Amenities on Lot CL045335064 Telipok, KM .24 Jalan Tuaran, District of Tuaran, Kota Kinabalu, Sabah.
21. Earthwork Activities on CL 015486325 (Phase 5, 6, 7 & 8) at Teluk Sepanggar, Menggatal, Sabah.
22. Proposed Amalgamation and Subdivision for 282 Units Condominium with Communal Facilities on Lots CL015152842 and 015495084 at Bukit Padang, Kota Kinabalu, Sabah.
23. Proposed Construction of a Palm Oil Mill at CL 085330409, Ladang Mamahat, Sabah.
24. Proposed Construction of New Kalabakan Plam Oil Mill at Kalabakan, Tawau, Sabah.
25. "Cadangan Membina dan Menimbus 'Esplanade' di persisir Pantai Pekan Sipitang, Sabah".
26. Proposed Earthwork Activities on CL.015486325 (Phase 5, 6, 7 & 8) at Taman Bukit Sepanggar, Kota Kinabalu, Sabah.
27. Proposed Resort Development on TL941, L13137, L13138, and L15390 at North Road, Sandakan, Sabah.
28. "Cadangan Perlaksanaan Projek Pembangunan 1440 unit Kos Sederhana Rendah Pangsapuri, 76 Unit Kos Sederhana Rumah Teres dan 36 Unit Kedai di atas Lot CL075515598, CL075314877 dan CL07123099 di KM13, Jalan Labuk, Sandakan, Sabah".
29. Proposed Quarry Operation at Kg. Notorus, Penampang, Sabah.
30. Existing Quarry Operation on CL 225311759, NT 223121284 and NT 223110978 at Kg. Manggaris, Langkon, Kudat, Sabah.
31. Proposed Water Supply Project at Sg. Mengalong, Kg. Ulau, Sipitang, Sabah.
32. Proposed Earthwork Activities on 024041505, Kg. Nadutah, Papar, Sabah.



33. Proposed Amalgamation and Subdivision for 282 Units Condominium with Communal Facilities on Lots CL 015152842 and 015495084 at Bukit Padang, Kota Kinabalu, Sabah.
34. Proposed Development of 1440 Units of Low- Medium Cost Apartment (Strata Title and Other Related Ameneties on Lot CL045335064 Telipok, KM .24 Jalan Tuaran, District Of Tuaran, Kota Kinabalu, Sabah.
35. Earthwork Activities on CL 025334221, Lok Kawi, Sabah .
36. Proposed Residential Development on 015492458 (REMR of 015092207) and 013049806 at Kg. Nunton, Inanam, Kota Kinabalu, Sabah.
37. Proposed Construction of New Kalabakan Palm Oil Mill at Kalabakan, Tawau, Sabah.
38. Proposed Construction of a Palm Oil Mill at CL 085330409, Ladang Mamahat, Sandakan, Sabah.
39. Proposed Commercial Development of Suria Sabah on Title No. T.L.017539810 at Jalan Tun Fuad Stephen, Kota Kinabalu.
40. "Cadangan Perlaksanaan Projek Pembangunan 780 Unit Rumah Kos Sederhana Rendah Jenis Apartment 5 Tingkat, 384 Unit Rumah Kos Sederhana Jenis Apartment 4 Tingkat dan 10 unit Kedai 1-Tingkat di atas Lot NT 7241 dan NT 7248 di Jalan Minitod, Penampang, Sabah".
41. Proposed Mountain Resort on CL 065319315, NT 063079934, NT 063100185 and Part of NT 063077136 at Kg. Kundasang, Ranau, Sabah.
42. "Cadangan Membina dan Menyiapkan Semula Ibu Pejabat Polis Daerah dan Perumahan Polis Diraja Malaysia di atas Lot 117503465, Lahad Datu, Sabah, Malaysia".
43. Proposed Construction of a Palm Oil Mill at CL 105334996, Km 66, off Tawau-Brantian Highway, Tawau, Sabah.
44. Proposed Housing Development on CL 135311643, NT 133065139 and CL 135320571 at Mile 6, Keningau District, Sabah .
45. Proposed Development of Mega Mall, 12-Storey Wisma Maksak, 10-Storey Hotel, 2 Blocks of 2-Storey Administration Block and 2-Storey Civil Service Museum on TL 017546431, Ceremonial Drive, Likas, Kota Kinabalu, Sabah.
46. Reuse of Scheduled Waste at Mile 7½, Jalan Tuaran, Kota Kinabalu, Sabah.
47. Extraction of Earth Material on CL 075349414 at Mile 5, Jalan Utara, Sandakan, Sabah.
48. Proposed 2,000-hectare Timber Harvesting at YK1/08, Sg. Pinangah Forest Reserve, Tongod District, Sabah.



49. Logging activities at FMU WEST of FMU No.5, Trusmadi Forest Reserve, Ranau District, Sabah.
50. Logging activities at Sg. Imbak State Land, Tongod District, Sabah.
51. Logging activities at FMU No. 8, Pensiangan District, Sabah.
52. Earthwork Activities for the Proposed 2-Storey Shop/Office and 2-Storey Supermarket on CL.165319737 and CL.165319728 at Tenom Town, District of Tenom, Sabah (2012)
53. Proposed Development of Resort with 5 Chalets, Function Hall and Jetty at NT 750 at Kulapuan Island, Semporna, Sabah.
54. Earthwork Activities for The Proposed Water Supply Project at Sg. Mengalong, Sipitang, Sabah (2012)
55. The Existing Quarry Operation On Nt.12589, Nt.12590, Nt.12591, L.26310, Nt.12381, 04316231, L.17123, 04316123, L.15295, Nt.14566 and Nt.14567 at Tamparuli, Sabah (2012)
56. Proposed Residential Development consisting of 7 Levels Parking Podium, a Recreational Podium and 3 Tower Blocks of 26-Storey Residential Tower on CL. 015058518 at Jalan Kolam, Kota Kinabalu [with Subsidiary (Strata) Titles to be Applied for] (2012)
57. "Aktiviti Kerja Tanah dan Cadangan Pembangunan Projek bagi SMK Tandek II (36 BD) di Lot NT 223124927, NT 223142729, FR 739, Kota Marudu, Sabah untuk Kementerian Pelajaran Malaysia" (2012)
58. Earthwork Activities for Proposed Subdivision & Development of 15 Blocks (136 Units) 2-3 Storey Shoplots on 225312149 at Pekan Kota Marudu, District of Kota Marudu, Sabah (2012)
59. "Cadangan Membina dan Menyiapkan sebuah Sekolah Menengah Kebangsaan Kanibongan yang mengandungi 24 bilik Darjah dan Kemudahan berkaitan di Kanibongan, Pitas, Sabah" (2013)
60. Proposed Kuala Penyu Bay Beach Resort on FR.3100 & Lot 1 NT.183030686 at Kg. Sabang, District of Kuala Penyu, Sabah (2013)
61. The Proposed Quarry Operation on CL.2253110978, NT.223121284 and NT.223110978, Kg. Manggaris, Langkon, Kota Marudu, Sabah (2013)
62. "Projek Naiktaraf Jalan Bungallo-Longkou Lama-Timbok, Tuaran, Sabah" (2013)
63. Development of OPP within part of block YT 2/04 (5,000 ha approximately) at Kalabakan, Sabah.
64. Proposed Housing Development on C.L. 015019940 (10.38 Ac.) at Bukit Padang Phase 1, Luyang, Penampang District, Kota Kinabalu, Sabah.



65. Proposed 15 & 21 Storey Condominium On. C.L. 015124606 at Mile 2, Jalan Tuaran, District Of Kota Kinabalu, Sabah.
66. "Projek Naiktaraf Jalan Sook – Tulid – Sinua, Keningau, Sabah (Fasa II)".
67. Moving Soil and Gravel on Premises No. CL.105342498 located at Rangu, District of Tawau, Sabah.
68. "Projek Naiktaraf Jalan Bunglio-Longkou Lama-Timbok, Tuaran, Sabah".
69. Proposed Sand Mining on PT 2009110083 at Sg. Segama, District of Lahad Datu, Sabah.
70. The Proposed 28 Units 2-Storey Terrace House & 38 Units 2½-Storey Terrace House & 6 Bungalow Lots On 215026289, 01613545 And Part Of 015027688, Off Jalan Penampang Lama, District Of Penampang, Kota Kinabalu, Sabah.
71. Environmental Management Plan for Existing Operation of Kapilit Palm Oil Mill for Sabah Softwoods Berhad at Kalabakan, Sabah.
72. Environmental Management Plan for Chipmill for Sabah Softwoods Berhad at Kalabakan, Sabah.
73. "Cadangan Membina Sebuah Tokong Cina Nam Tien Kong (Jiu Wang Da Di) Di Atas Tanah 013110971 (Lot 6) & 013110999 (Lot 8) Di Kg. Tatahan, Jalan Kiansom, Inanam, Kota Kinabalu, Sabah".
74. The Proposed Condominium Development on TL. 017517850, Cl. 015078323 and T.L. 015079848 (With Subsidiary (Strata) Titles to be Applied for) along Jalan Tuaran, Likas, Kota Kinabalu, Sabah.
75. The Proposed 5 Units Of 4 Storey Link Villas (With Subsidiary Titles to be Applied for) on CL.015329549, CL.015329558, CL.015411908, CL.015358782 at Taman Kinabalu, Off Jalan Kolam Luyang, District of Kota Kinabalu, Sabah
76. "Projek Jalan Bokara, Sandakan, Sabah"
77. Projek Cadangan Pembinaan Jeti Dan Jambatan Konkrit Baru Di Balembang, Pulau Bum-Bum Semporna, Sabah.
78. Proposed Amalgamation Of Lot Pt 015452990, 015453004, 015453013, 015453022, 015453095, 015453102, 015453111, 015453120, 015453139, 015453148, 015453157, 015453031, 015453040, 015453059, 015453068, 015453077, 015453086, 015453095, Road Reserve (258/989) & State Reserve (0.169ha) For The Development Of 2 Blocks Of 28 Storey Commercial Suite, 1 Block Of 25 Storey Mixed Used (Hotel, Apartments And Office), 1 Multiscreen Cinema And Conference Center On Top Of 5 Storey Retail Podium And Basement Carpark, Plus 1 Office Block Of 10 Storey At Jalan Nenas, Kota Kinabalu District, Sabah.



79. Proposed Development of 130 Unit SOHO Duplex dan Service Apartment 26-Tingkat dan 291 Unit Kedai di atas Tanah CL. 215429324, Jalan Bundusan, Penampang, Sabah.
80. Replanting For Sijas Estate (823 Ha) At Mile 54, Sandakan, Sabah.
81. Replanting For Minat Teguh Estate (2,434ha) at Mile 54, Sandakan, Sabah.
82. Projek Menaiktaraf Sistem Bekalan Air di Lahad Datu, Sabah.
83. Proposed 20-Storey Commercial Development (With Subsidiary Strata Title To Be Applied For) On Part Of Cl. 015583963 (Lot 1) at Damai Luyang, Kota Kinabalu District, Sabah.
84. The Proposed Condominium Development on TL. 017517850, Cl. 015078323 and T.L. 015079848 (With Subsidiary (Strata) Titles to be Applied for) along Jalan Tuaran, Likas, Kota Kinabalu , Sabah.
35. Earthwork Activities for Proposed Amalgamation and Subdivision of 6 units of Detached Warehouse cum 3-Storey Office, 34 Units of Semi-detached Warehouse cum 3-Storey Office and 4 Blocks of Light Industrial Showroom cum Office on CL.015583463, CL.015583472 and CL.015583481 at Mile 7.5, Jalan Tuaran, District of Kota Kinabalu.
86. Proposed Development of One Block Service Suites (132 Units) with Ground Floor Shops and 6 Levels of Car Park with Strata Title to be Applied for on CL015092430 at KM 7, Jalan Tuaran, Likas, Kota Kinabalu, Sabah.
87. Proposed Amalgamation, Subdivision And 5-Storey Apartments (With Strata Title To Be Applied For) And 2-Storey Shops/ Office (With Individual Lot Title) Development On CL015045057, CL015045048, CL015269066, CL015269057, CL015068265, CL015067393 And CL015045039 At Telipok, District of Kota Kinabalu.
88. Projek Cadangan Pembinaan Jeti Dan Jambatan Konkrit Baru Di Kg.Balimbang, Pulau Bum-bum, Semporna, Sabah.
89. Development Of Oil Palm Plantation Within Part Of Block Yt 2/04 (5,000 Ha Approximately) At Kalabakan, Sabah.
90. Proposed Condominium Development On Tl. 017517850, 015078323 And Tl 015079848 (With Subsidiary (Strata) Titles To Be Applied For) Along Jalan Tuaran, Likas Kota Kinabalu.
91. Projek Naiktaraf Jalan Sook – Tulid – Sinua, Keningau, Sabah (Fasa II).
92. Proposed Housing Development On Cl. 015019940 (10.38 Ac.) At Bukit Padang Phase 1, Luyang, Penampang, District.
93. Proposed Earthwork Activities and Road Construction in 3 Phases within Sipitang Oil and Gas Industrial Park (SOGIP)
94. Proposed Commercial Development 19-Unit 2 Storey Shop Office On Pt.84190069 at Pekan Sipitang.
95. Projek Menaik Taraf Jalan Topokon-Wangkod-Gontung, Tamparuli, Sabah.
96. Proposed Earthwork Activities On Site Preparation For Project Rimbunan Kaseh At Kg.Saga-Saga, Membakut
97. Proposed Housing Development On Part Of Cl. 105593271, Imam Estate, Jalan Utara, Tawau, Sabah



98. Proposed Sand Mining On Pt.20-04020947 At Kg. Rampazan And Processing At Kg. Tamoi, Papar.
99. Proposed Earthwork Activities For Housing Development On NT. 213037284 (2.71 Ha) And Nt. 213076629 (1.33 Ha) At Kg. Ketiau, Putatan, Sabah.
100. Merekabentuk, Membina Dan Menyiapkan 900 Unit Rumah Teres 1-Tingkat Dan Kerja-Kerja Yang Berkaitan Dengannya Bagi Program Perumahan Rakyat (Ppr-Dimiliki) Di Ulu Perasan, Daerah Kota Belud, Sabah.
101. Earthwork Activities For The Proposed Chinese Cemetery On 01200841 At Jalan Menggatal, District Of Kota Kinabalu (Menggatal Zhong Hua Memorial Park)
102. Proposed Housing Development On Cl 015108264, CL 015178453 And Cl 015484018 At Menggatal, Kota Kinabalu
103. Proposed Quarry Operation At 261205 (About 120 Acres), Mile 9, Jalan Apas, Tawau, Sabah
104. Proposed River Sand Extraction At Sg. Lugutan, Sipitang, Sabah.
105. Earthwork Activities For The Proposed 68 Units Ready Built Factories Phase 5 (RBF5) On Part Of Cl.01558380 And Cl.015582153 And Dumping Site At Iz10 And Iz11, Kota Kinabalu Industrial Park (K.K.I.P), Kota Kinabalu, Sabah
106. Cadangan Penyusunan Dan Pembinaan Semula Penempatan Kg.Gana, Kota Marudu Di Bawah Pelaksanaan Projek Agropolitan, Kementerian Kemajuan Luar Bandar Dan Wilayah
107. Proposed Agro-Forestry Development In Blocks YT 2/06 And YT 3/06 At Luasong, Tawau, Sabah.
108. Proposed Development Of Esplanade And Jetty At Bengkoka, Pitas
109. Earthwork Activities For Proposed Subdivision For 2 Units Double Storey Shophouse, 30 Units Double Storey Semi-Detached And 177 Units Terrace Housing Development On Cl.025318456, 0.5 Km North-West Of Papar Town Centre, District of Papar, Sabah And Proposed Borrow Pits At CL 23152, CL 22860 And Cl 22851, District Of Papar, Sabah
110. The Proposed Shop 2-3 Storey Shop Office, 2 Storey Terrace House And Semi Detached House On Cl.025314096 At Mile 14, Penampang-Papar Road, Kinarut, District Of Papar
111. Projek Menaiktaraf Jalan Mesej Ke Timpangoh Laut, Penampang, Sabah.
112. 39. EIA for Proposed Subdivision, Residential & Commercial Development Consist of 13-Storey Affordable Apartment (2-Tower, Subsidiary Title Will be Applied For), 2 & 3 Storey Shoplots, 1-Storey Market Square, 3-Storey Mall cum Supermaket, 2-Storey College, Petrol Station Lot and Drive-Thru Lot on CL.025059616 with Total 18.26 Hectares at Papar, Sabah.
113. EIA for Earthwork Activites and Development of Proposed Pr1m Housing 1,200 Units Apartment (With subsidiary title to be applied for) on CL.015087966 with 9.11 Hectares at Jalan Sepanggar, Kg. Ratau, Menggatal, Sabah.
114. EIA for Aktiviti Kerja Tanah dan Pembinaan Jalan Montenior – Halogilat / Beaufort (Fasa II), Sabah.
115. EIA for Cadangan Naiktaraf Jalan Papar Dari Bulatan Papar Ke Bulatan Benoni, Sabah (JalanPapar Spur).
116. EIA for Proposed Quarry Operation at Block BW1/13 (0.65 Ha) at Gunung Rara Forest Reserve, Tawau.
117. EIA for Proposed Earthwork Activities at Salambigar, Negara Brunei Darussalam.



118. EIA for Aktiviti Penimbusan Laut Di Teluk Sepanggar Di CL.015580891 (Fasa II), Kota Kinabalu, Sabah.
119. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Pinangah – Masaum Sepanjang 11 KM, Tongod, Sabah.
120. EIA for Membina Jalan Lahad Datu Bypass, Lahad Datu, Sabah.
121. EIA for Proposed River Stone Extraction on PT. 2014190248 (0.78 Ha) at Sg. Mengalong and Processing Site on NT.193020530 and Part of NT. 193016769 (Total 0.607 Ha) at Kg. Melamam, Sipitang, Sabah.
122. EIA for Proposed Residential Development of 29-Storey Condominium 87 Units with 0.27 Hectares on TL.017528719, off Jalan Signal Hill Park, Kota Kinabalu, Sabah.
123. EIA for Earthwork Activities and Proposed Development on FR. 014008934 at Kg. Kibagu, Sepanggar, Kota Kinabalu, Sabah.
124. EIA for Earthwork Activities and Development for The Proposed Residential for Shop, Duplex Housing and 1 Block Condominium [With Subsidiary (Strata) title to be applied for] on CL. 015282345 and CL. 015093008 at Kg. Sukang, Jalan Sukang Mabpai, Kota Kinabalu, Sabah.
125. EIA for Proposed Earthwork Activities and Residential Development on Part of CL. 015055526 (9.767 Hectares) at Kg. Darau, Jalan Tuaran, Kota Kinabalu, Sabah.
126. EIA for Proposed Earthwork Activities and Mixed Development on TL. 017561867 (2.428 HA) and CL. 015707570 (2.428 HA), Kota Kinabalu, Sabah.
127. EIA for Proposed Earthwork Activities and Amalgation, Conversion, Subdivision and Development of CL. 115314488 and CL. 115314497 into a Residential Development with 12.78 Hectares off Mile 8, Lahad Datu-Kunak Highway, District of Lahad Datu, Sabah.
128. EIA for River Sand Extraction at PT. 2016100284 (0.81 Ha) Sungai Brantian, Tawau, Sabah.
129. EIA for Aktiviti Kerja Tanah Untuk Cadangan Membina dan Menyiapkan Kolej Vokasional Berasrama Penuh Serta Lain-Lain Kemudahan Berkaitan di Kawasan Hub Pendidikan Sandakan, Daerah Sandakan, Negeri Sabah.
130. EIA for Earthwork Activities and Proposed Mixed Resort Development (strata title to be applied) on FR. 054032923, NT. 053081100, NT. 053081119, FR. 054032941, NT. 053081888 and NT. 053086954 with 23.485 Hectares at Kg. Marimbau, District of Kudat, Sabah.
131. EIA for Aktiviti Kerja Tanah untuk Projek Pembinaan Talian Penghantaran 132KV dari Kota Belud Ke Ranau, Sabah di Sebahagian Tanah Kerajaan dan TL. 067500181 di bawah Program Bekalan Elektrik Luar Bandar (BELB) Secara Rundingan Terus Reka dan Bina.
132. EIA for Earthwork Activities and Proposed Conversion & Sub-Division of Mixed Commercial Development Comprises Of i) 1 Block of 15-Storey Commercial Building, Sova, Multi-Storey Basement Carpark, ii) 1 Block of 21-Storey Specialist Centre, Office, Multi-Storey & Basement Carpark, iii) 1 Block of Single Storey Commercial Building with 2.28 Hectares on CLS. 075131387, 075133909 and 075131378 at Mile 1 ½, Jalan Utara, Sandakan, Sabah.
133. EIA for Logging operation at Kg. Mindohuan (605.90 HA), Ranau, Sabah.
134. EIA for Logging Operation (840 HA) at Forest Reserve Kuala Tomani Class II, Sabah.



135. EIA for Aktiviti Kerja Tanah dan Menaiktaraf Jalan Sepanjang 27.118 KM bagi Jalan Lok Kawi-Pengalat-Papar, Sabah.
136. EIA for Extraction of River Stone and Sand Deposit at Sg. Pangapuyan on TOL (JTU(G):800/2223.4.31) and Processing Site at NT. 224006704 and NT. 224006713, Kota Marudu, Sabah.
137. EIA for Earthwork Activities and Upgrading of 6.27 Km Jalan Karangan, Beaufort, Sabah.
138. EIA for Earthwork Activities at Proposed Borrow Pit at CL. 025152032, Jalan Kelatuan, Papar, Sabah.
139. EIA for Loggong Operation at Kg. Mindohuan (605.90 Ha), Ranau, Sabah.
140. EIA for Earthwork Activities and Proposed Conversion, Subdivision and Development of 72 Units of 3-Storey Shop Office (With Subsidiary Titles To Be Applied For) at Phase 1, 95 Units Of 2-Storey Terrace House & 32 Units of 2-Storey Semi Detached House at Phase 2 & 3 On CL. 1655003823 and Dumping Site At Nt. 163000566, District of Tenom, Sabah.
141. EIA for Aktiviti Kerja Tanah Dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah.
142. EIA for Proposed Earthwork Activities and Conversion, (From NT to CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Homestay on NT. 013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu.
143. EIA for Proposed Replanting of Oil Palm Plantation With 1.395.10 Hectares At Ladang Hassan, Sandakan, Sabah.
144. EIA for Proposed Earthwork Activities for Development of Commercial Complex on CL. 215429208 and Part of CL. 215429324 (3.988 Ha) at Jalan Bundusan, Penampang District Sabah.
145. EIA for Earthwork Activities And Construction Of Inanam Laut Reservoir (Telibong II Phase 1 Water Treatment Plant Upgrading Works) at Inanam, Sabah.
146. EIA for Earthwork Activities And Resort Development Including Road Diversion On CL. 185313740, CL. 185313731, CL. 185313713, CL. 185313786, CL. 185313768 And Cl. 185313777 At Kampung Bayong, District Of Kuala Penyu, Sabah.
147. EIA for Replanting Activities For Sook Estate (2468 Ha) Located At Jalan Tulid, Sook Keningau, Sabah.
148. EIA for Proposed Development of Industrial Buildings & Facilities on LA. 2011010280 (CL. 015702075) at Sepanggar, Kota Kinabalu, Sabah.
149. EIA for Earthwork Activities And Proposed Housing Development On Part Of CL. 045115919 (29.59 Hectares), Km 4, Jalan Tuaran – Kota Belud, Sabah Consisting of 833 Units of Double Storey Terrace Affordable Homes Under My Home Scheme, 800 Units Of “ Projek Perumahan Rakyat” Under “Build & Shell” Scheme and 7 Units of Double Storey Shops (Strata Titles To Be Applied For Lot 2).
150. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ke Mesej Mangalias, Tenom, Sabah.
151. EIA for Replanting Activities for Dusun Estate (835 Hectares) Located at Sandakan, Sabah.
152. EIA for Earthwork Activities For Proposed Conversion, Amalgamation, Subdivision and Development of NT. 043238878, NT. 04317179 & NT. 043172818 Into A residential Development At Kg. Serusup, District Of Tuaran.



153. EIA for Earthwork Activities For Proposed Dumping Site (18.1 Hectare) At CL. 015606283, Kingfisher, Kota Kinabalu, Sabah.
154. EIA for Proposed Clearing Activities of FR.154000674 (1,200 Ha) at Kg.Tatalaan 1 Joint Venture Between The Beneficiaries of Communal Grant of Kg.Tatalaan 1 With Sentotimber Sdn Bhd, Pensiangan, Sabah.
155. EIA for Earthwork Activities And Proposed Amalgamation And Subdivision Of New Water Tank And PPU on CL.025339780 (Individual Title), 2 Blocks of Condominium on CL.025367999, 3 Blocks of Apartment on CL.025368003 and Mixed-Used Development on CL.025368085 & CL.025368076 (Total 15.65 Hectares) at Lok Kawi, District of Papar, Sabah (With Subsidiary (Strata) To Be Applied For).
156. EIA for Earthwork Activities for Proposed Conversion, Subdivision and Development of CL. 135314439 into a Housing Development at Kampung Ulu Liawan, District of Keningau.
157. EIA for Aktiviti Kerja Tanah dan Pembinaan Kompleks Sukan Tongod (4.78 Ha) Serta Pelupusan Tanah Berlebihan (1.89 Ha) di Sebahagian Tanah Diwartakan Untuk Tapak Mini Kompleks, Tongod Sabah.
158. EIA for Replanting Activities at Litang Estate (776 Hectares), Lahad Datu, Sabah.
159. EIA for Aktiviti Kerja Tanah dan Membina Jalan Tawayari, Lahad Datu, Sabah.
160. EIA for Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar dan 1 Blok Dewan Makan, Makmal dan Bengkel Kh/Pav Serta Pagar di Sk Pekan Pensiangan Untuk Perluasan Sekolah K9 di Daerah Nabawan, Negeri Sabah.
161. EIA for Earthwork Activities for The Proposed Development of KK One For Redevelopment/Rehabilitation of Existing Approved Building Structure Oo Kompleks Star City (Phase IIC) On Part of TL.017546940 & TL.017544713 at Kampung Air, Kota Kinabalu, Sabah.
162. EIA for Aktiviti Kerja Tanah dan Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) di Sebahagian CL.015694381, Kota Kinabalu, Sabah.
163. EIA for Earthwork Activities, Reclamation, And Construction Of Proposed Mixed Development On CL. 015708531 With 1.821 Ha At Sutera Harbour, Kota Kinabalu, Sabah.
164. EIA for Earthwork Activities And Proposed Residential Development (7.52 Ha) And Disposal Of Overburden (2.51 Ha) On Part Of CL.175336080, Jalan Taman Wawasan, District Of Beaufort, Sabah.
165. EIA for Earthwork Activities Of Ponds Construction At Sook Estate, Located At Jalan Tulid, Sook, Keningau, Sabah.
166. EIA for Proposed Off-Site Scheduled Waste Storage At KKIP, Off Jalan Sepanggar, Kota Kinabalu, Sabah.
167. Earthwork Activities at Proposed Borrow Pit on Part of CL.175346666 and Dumping Sites on CL.175275706 and CL.175007860 at Kg. Lumat, Beaufort.
168. Earthwork Activities and Proposed Upgrading of Jalan Kolam Including Two Flyovers and Supplementary Roads (Total 8.636 KM), Kota Kinabalu, Sabah.
169. Earthwork Activities and Upgrading of Jalan Paitan - Pantai Boring, Beluran, Sabah.
170. Aktiviti Kerja Tanah dan Projek Menaiktaraf Jalan Gading – Gading, Semporna, Sabah.



171. Aktiviti Kerja Tanah dan Projek Naiktaraf Jalan dari Kg. Bangkulat Ke Kg. Imbak, Tongod, Sabah.
172. Earthwork Activities and Proposed Upgrading of 6.96 KM Jalan Tun Fuad Stephen, Jalan UMS & Jalan Sulaman, Kota Kinabalu, Sabah – Phase I.
173. Aktiviti Kerja Tanah dan Menaiktaraf Jalan Semawang Ke Tanjung Kuala Gum Gum, Sandakan, Sabah.
174. Proposed Logging Activities On PT.20-20080088 (2,902 Hectares) At Paitan, District Of Labuk Sugut, Sabah.
175. Earthwork Activities For New Mosque With 6.475 Hectares (Phase 2) On Part Of L.A. 20-15120271, Jalan Seri Melor, District Of Semporna, Sabah.

B. PROPOSAL FOR MITIGATION MEASURES (PMM) (2014-2021) :

1. Proposed Linggisan Eco Luxury Resort Development Phase 1 on Lot NT.03307490, NT.033079686 and NT.2296, Pulau Mantanani Besar, District of Kota Belud, Sabah.
2. Proposed Commercial Development 19-Unit 2-Storey Shop Office on PT.84190069 at Pekan Sipitang.
3. Development of Resort Consisting of: Phase 1: 10-Storey Hotel Suit (150 rooms), Phase 2: 11-Storey Hotel (250 rooms), Phase 3: Single Storey Resort Villa (8 units), 3-Storey Resort Villa (6 units) and Phase 4: Grand Ball Room on N.T. 183314669 (Lot 1), N.T. 183314678, and N.T. 183319557 at Kampung Bayong, District of Kuala Penyu, Sabah.
4. Proposed Logging Operation with 150.3 Hectares on Part of FR. 124014946 at Semporna, Sabah.
5. Logging Operation at TOL 08901275 (PT. 86082109) With 161.6 Hectares at Ulu Lingkabau Sugut, Beluran, Sabah.
6. Kerja – Kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N.444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
7. Proposed 2-Storey Seaside Resort on NT.10207 and NT.023225961 at Kg. Kinarut Laut, District of Papar, Sabah.
8. Proposed Resort and Diving Academy (Phase 2) At Mamutik Island, Kota Kinabalu, Sabah.
9. Replanting of Oil Palm Plantation (464.32 Ha) at Koyah Estate, Kinabatangan, Sabah.
10. Development of Mixed Agricultural Plantation at CL.135325736 (370.03 Ha), Keningau, Sabah.
11. Proposed Oil Palm Plantation (376.68 Ha) at District of Tongod, Sabah.
12. Proposed Replanting Of Oil Palm Plantation With 114 Ha At Lormalong Estate At Kunak, Sabah.
13. Proposed Replanting Of Oil Palm Plantation With 196.26 Ha At Merotai Estate At Tawau, Sabah.
14. Proposed 2-Storey Seaside Resort On Nt.10207 And Nt.023225961 At Kg. Kinarut Laut, District Of Papar, Sabah.
15. Program Pembangunan Dan Penanaman Semula Sawit (233 Ha) Tanah Anak Negeri At Bingkor, Keningau, Sabah.
16. Proposed Replanting Of Oil Palm Plantation With 157.44 Hectares At Ladang Hassan, Sandakan, Sabah.



17. Replanting Of Oil Palm Plantation At Kandang Besar Estate (192 Ha), Keningau, Sabah.
18. Proposed Resort Development On Tol 10900260 At Celebes Sea, Tawau, Sabah.

C. REASSESSMENT REPORT (RR) (2014-2021) :

1. Projek Pembinaan Jalan Maliau Basin (Pakej 1 Dan Pakej 2) , Kalabakan, Sabah.
2. The Proposed Stone Quarry And Its Activities At CL.235310344, NT.233102273, CL.233111334 And CL.053033079 At Kg. Kesagaan, Pitas, Sabah.
3. Membina Jalan Lahad Datu Bypass, Lahad Datu, Sabah.
4. Aktiviti Kerja Tanah Untuk Tujuan Menaiktaraf Sistem Bekalan Air Di Lahad Datu.
5. Earthwork Activities For Construction Of Telipok Reservoir (Telibong li Phase 2 Water Treatment Plant Upgrading Works), Sabah.
6. Earthwork Activities For Construction Of Telibong Reservoir (Telibong li Phase 2 Water Treatment Plant Upgrading Works), Sabah.
7. Earthwork Activities For Construction Of Menggatal Reservoir (Telibong li Phase 2 Water Treatment Plant Upgrading Works), Sabah.
8. Proposed Sand Mining On Tol.08902801 At Sg. Klagan, Beluran, Sabah.
9. Existing Aggregate Quarry Operation And Associated Facilities On Lots Fr.014010934, Nt.013081815, Nt.013068543 And Nt.013068534 At Sepanggar, Kota Kinabalu, Sabah.

D. SUPPLEMENTARY REPORT (SR) (2021) :

1. New Access Road For Proposed Amalgamation And Development Of TI.017561867, CI.015707570 And CI.015721301 Into Mixed Development At Jalan Haji Saman, Kota Kinabalu, Sabah.

CURRICULUM VITAE

Name	Claus Pedersen
Nationality	Denmark
Education	PhD, Hydrodynamics and Coastal Engineering, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark, 1993 MSc, Hydrodynamics and Coastal Engineering, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark, 1990
Courses	Seminar on Strategic Environmental Assessment (SEA) using RIAM, Niche Training Network in collaboration with Envirolink Sdn. Bhd., 2008 Workshop: Guidelines on Economic Valuation of Environmental Impacts for EIA Projects (Part A and B), Department of Environment, Malaysia, 2008
Memberships	Department of Environment (DOE), Malaysia - EIA Consultant (C0214) Environmental Protection Department (EPD), Sabah - Membership No. S0026 Natural Resources and Environment Board (NREB), Sarawak - Membership No. NREB/1/00640
Key qualifications	Coastal Hydraulics, Morphodynamics and Environmental Management

Employment record

Year	Firm	Position and responsibilities
2008 - date	DHI Water & Environment, Malaysia	South-East Asia Regional Technical Director.
2003 - 2008	DHI Water & Environment, Malaysia	Managing Director, Malaysia Offices.
1998 - 2003	DHI Water & Environment, Malaysia	Senior Coastal Engineer & Project Manager, Responsible for technical management of numerous projects in South East Asia.
1993 - 1998	Danish Hydraulic Institute, Denmark	Research and Coastal Engineer.
1990 - 1993	Institute of Hydrodynamics and Hydraulic Engineering	PhD Student, PhD Student in wave breaking, sediment transport under the advice of Prof. Rolf Deigaard and Prof. Jørgen Fredsøe. Teaching and advising undergraduate students. Six-month stay at California Institute of Technology. Pasadena, USA.

Experience record

Year	Project, Country	Position and activities
2016	Treasure Bay Bintan Masterplan Studies, Bintan, Indonesia	Hydraulic input and optimization of layout for masterplan for major tourism and resort development. Expert input supported by hydraulic modelling.
2016	Independent review of hydraulic studies for Penang reclamation project, Penang, Malaysia	Engaged as international expert to carry out a review of the hydraulic studies carried out in support of the EIA for a major reclamation study
2015	Sandsource study for reclamation fill, Sabah, Malaysia.	Project director for a sand source investigation focused on identifying a suitable sand source for reclamation and beach nourishment for the Tanjung Aru Eco Development.
2015	Sedimentation and dredge plume assessment for Gorgon channel maintenance, Western Australia.	Project manager for the modelling and assessment of sedimentation and potential maintenance dredge plumes for Gorgon navigation channel and berth pockets
2015	Sedimentation and dredge plume assessment for the dredging of the CaTRo Channel, Caspian Sea, Kazakhstan.	Project manager for the assessment of dredge plumes and sedimentation associated with the 3-year dredging programme for the 65 km long CaTRo channel in the Caspian Sea.
2015	Stabilisation and restoration of Karambunai Beach, Sabah, Malaysia	Technical advisor and reviewer of design of beach protection to mitigate ongoing severe erosion and reestablish beach amenity values. Includes assessment of river mouth and coastal impacts.
2015	Wheatstone Sedimentation Assessment. Western Australia.	Project Manager for modelling and assessment of sedimentation for the Wheatstone dredged areas carried out for Chevron.
2015	Management Plan for River Stone and Sand Mining, Sg. Mengalong and Sg. Lukutan, Sabah, Malaysia.	Technical advisor and coastal lead on assessment of sustainable river sand mining carried out for the Environment Protection Department of Sabah, Malaysia.
2015	Hydraulic Studies and Sedimentation Assessment for SMOE port expansion, Batam, Indonesia.	Technical advisor and reviewer. Hydraulic and morphological studies to determine design conditions and risk of siltation associated with expansion of the SMOE facilities at Batam, Indonesia.
2015	Sedimentation Assessment for Ashburton North Port and dredged channel. Australia	Project Manager for study of port and channel sedimentation for Ashburton North harbor carried out for Pilbara Port Authority.
2015	Dredge plume assessment for maintenance dredging. Western Australia	Project Manager for assessment of the likely dredge plumes associated with maintenance dredging for the Wheatstone LNG terminal.

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2015	EIA for Terminal Extension at MCT, Brunei.	Technical Advisor for impact modelling for dredging and reclamation for the proposed terminal extension at MCT.
2015 - 2016	Tanjung Aru Eco Development Special Environmental Impact Assessment, Sabah, Malaysia	Technical Advisor and manager for modelling support and assessment of coastal and marine impacts of a masterplan for a beach rehabilitation and reclamation project.
2015	Shell Todd Oil Services Ltd Marine Consent Application, New Zealand	Lead reviewer on Oil spill and Drill cuttings modelling for Environmental Court hearing for consent application.
2015	Gorgon LNG, Western Australia	Project Manager. Modelling and advice in support of submission to regulators on risk to corals from turbidity and sedimentation from propeller wash resuspension.
2015	Feasibility Assessment for Tourism Development, Bintan, Indonesia	Project Manager. Input to feasibility assessment for master plan for the major Bintan Bay tourism development. Assessment of hydraulic aspects, water quality, marina and navigational aspects, siltation and coastal stability.
2015	Assessment and Modelling of floatables, BSB Brunei.	Technical Advisor and coordinator for advice and modelling of strategies for trapping floatable in Sungai Brunei and Sg. Kedayan.
2015	Dredge sedimentation assessment, Western Australia	Reviewer for assessment of sedimentation from 2-year dredging programme for Wheatstone navigation channel.
2014-15	Sg. Segama river sand mining, Lahad Datu, Sabah, Malaysia	Technical Advisor and quality assurer for a study of sustainable sand mining capacity for Sg. Segama carried out for the Environment Protection Department.
2014-15	Kudat Tourism Masterplan, Malaysia	Technical Advisor. Provided technical advice and presentations to technical and steering committees for the development of a comprehensive coastal tourism masterplan.
2014	Sediment plume modelling for EIA for the BPMC pipeline installation, Brunei.	Technical Advisor and manager for modelling and assessment of sediment plumes generated from trenching of the BPMC gas pipeline.
2013-2015	Wheatstone Dredge Advisory and Risk Mitigation Assistance, Australia	Project Manager. Provision of advice and support to EMMP for dredging of navigation channel and trunkline for the Wheatstone LNG Project. Components include provision of daily remote sensing images, daily hindcast and forecast modelling of currents, waves and dredge plumes for concurrent dredge programmes by different contractors. Daily reporting with advise on risks of cumulative impacts and potential mitigation options.

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2014	Waituna Lagoon, New Zealand	Technical Advisor. Provided expert advice for a pre-feasibility engineering study for technical solutions to managing lagoon entrance opening and closure for drainage and water quality.
2014	Bintan Treasure Bay, Indonesia	Technical Advisor. Provided expert advice on hydraulic feasibility of master plan for major resort development. Suggested changes to master plan to resolve potential issues with water quality, navigation and coastal stability.
2014	Coastal Adaptation Study, Singapore	Technical Expert. Provided review and technical input on coastal adaptation strategies to counter the effects of climate change and global sea level rise.
2014	Eastern Channel Feasibility Studies, Brunei	Coastal Technical Expert. Provided technical advice and input for modelling and navigational assessment for feasibility assessment study for dredged channel configuration to the PMB marine base.
2014	Oman Fisheries Harbors	Project Manager – modelling assessment. Coastal studies for two fisheries harbors in Oman to redesign harbors to resolve sedimentation problems. Presented to Ministry of Fisheries, Oman.
2013 - 2015	Tg Aru Eco Development Masterplan Study, Malaysia	Project Director, overlooking the hydraulic modelling and design input for marine components for the masterplan for a major redevelopment of the main public beach area in Kota Kinabalu. Project includes re-engineering and upgrade of public beach, a waterway connecting a fishermen's wharf development and a marina development catering for mega-yachts, reclamation for hotels, residential and a golf course.
2013	Wheatstone - Revalidation of Dredge Plume Model, Australia	Project Manager. Fulfillment of Ministerial Conditions for approval of the Wheatstone EIS. Revalidation of dredge plume model applied for the Wheatstone EIS based on field data collection after start of dredging.
2013-2014	Wheatstone Coral Validation Modelling, Australia	Project Manager. Model validation for coral spawn modelling carried out to support an assessment of the potential impacts to coral larvae from dredging during a mass coral spawn event. Particle tracking model was validated against deployed GPS tracked drifters over two periods during the spawning season.
2013	Padas river sand mining study, Sabah, Malaysia	Technical Advisor and Coastal Expert. Modelling study of the sustainable sand mining capacity for lower Padas river system for the Environment Protection Department.

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2013	DI Oilspill Modelling Assistance, Australia	Project Manager. Oil spill modelling for day bunkering sites during a three year dredging campaign.
2012 - 2013	Wheatstone LNG plant diffuser outfall, Australia	Technical Advisor and Reviewer. Provided review and technical advice on diffuser outfall modelling for a temporary outfall during construction phase of the LNG facility.
2012 - 2013	Wheatstone Environmental Web Portal and Support Framework, Australia	Project Manager. Setup of modelling framework and web portal for provision of hindcast and forecast modelling, MODIS imagery and advice on the assessment of risks for cumulative impacts from concurrent dredging programmes.
2012	River Hydraulic Study for Eco-Tourism Resort at Sg. Kalumpang, Tawau, Malaysia	Project Director. Project director for the assessment of potential impacts to river hydraulics, including current, flood and morphological assessment, from a piled development in major mangrove channel.
2012 - 2013	Tk Rubiah EMMP, Perak, Malaysia	Project Director. Project director for extensive modelling and assessment for dredge plume management during construction. Included daily spill assessment, hindcast modelling and reporting over a 2 months dredging campaign.
2012	Teluk Rubiah DEIA Post Approval Support, Malaysia	Technical Advisor and Presenter. Provided support to Vale through modelling, advice and presentations to authorities on using proactive spill monitoring and management as an alternative to silt curtains for mitigation of dredge plume impacts. Appeal to authorities successful.
2012	Pengerang LNG Supplementary EIA, Johor, Malaysia, Malaysia	EIA consultant. EIA consultant for supplementary EIA for the Pengerang LNG terminal.
2011 - 2012	Preparation of EIA guidelines for Sabah, Malaysia	Project Director. Development of two guides for Environment Protection Department for environmental assessment of 1) Dredging & Reclamation; 2) Coastal Development.
2011 - 2012	Input to Sabah Environmental Policy, Malaysia	Project Director. Input to development of an Environmental Policy for Sabah with focus on water related issues.
2011 - 2013	Wheatstone Coral Spawn Impact, Australia	Project Manager. Agent Based Modelling to assess the potential impacts to coral larvae from dredge plumes and sedimentation caused by dredging to support an assessment of possible dredge scenarios that will not impact coral reproduction.
2011	Pantai Dalit Resort Morphological Assessment, Malaysia	Technical Advisor. Assessment of morphological development and stability of coastal spit based on a combination of sediment transport modelling and assessment of historical satellite images.

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2011 - 2012	SG 5412 Environmental Support to Chevron Thailand Exploration and Production, Thailand	Project Manager, Coastal Impact Assessment. Support to Chevron Thailand in assessing coastal impacts from a proposed Shorebase for offshore activities in Gulf of Thailand. Assessment included quantification and illustration of likely impacts and assessment of mitigation options.
2011 - 2013	Wheatstone LNG Project - Environmental Support, Australia	Project Manager. Pre-construction support to Chevron Central Environmental team for environmental approvals process, including but not limited to assessment of environmental risks associated with dredging, optimisation of dredge programmes and input to the Environmental Monitoring and Management Plans
2011 - 2012	Wheatstone LNG Project - Spoil Ground Stability Assessment (Phase 4), Australia	Project Manager. Assessment of stability of dredge spoil grounds for 40 million m3 dredge programme. Included modelling and assessment of a range of climatic conditions, including cyclones.
2011	Wheatstone LNG Project - Support During Tendering, Australia	Technical Expert Advisor. Support during tendering phase for navigation channel dredging. DHI support included assessment through modelling of environmental risks associated with dredging programmes presented by tenderers.
2011 - 2012	ISMP Papar-Tuaran, Sabah, Malaysia	Technical Advisor. Development of a detailed Integrated Shoreline Management Plan for a coastal section on the west coast of Sabah, including detailed assessments of the main public beach area and a pre-planned tourism cluster development.
2011 - 2013	Sabah Islands Management Plan, Malaysia	Technical Advisor. Technical advisor for development of a management plan for islands in Sabah, including assessment of exposure, morphological stability, tourism potential and environmental assets and protection requirements.
2011	Sg. Papar & Kimanis sand mining carrying capacity study, Malaysia	Project Director. Assessment of carrying capacity for sand mining in river systems through a combination of catchment and river modelling and assessment of impacts on coastal sediment budget.
2011	Wheatstone LNG Development - Modelling of Discharges, Australia	Project Manager. Modelling of dispersion and dilution of TEG releases for input to the Environmental Impact Assessment for Wheatstone
2011	Mathematical Model Studies for Oil Dispersion at Kakinada Port, India	Technical Advisor. Technical advisor and quality assurance for oil spill modelling carried out for port feasibility
2011	Wheatstone LNG Project, EIS Support Dredging, Australia	Project Manager. Comprehensive modelling support and advice for the marine components of the EIA for the Wheatstone LNG project. Input included dredge plume modelling for 40 million m3 dredging of navigation channel, berthing facilities

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		and trench for trunkline installation, development of receptor tolerances, impacts assessment and programme optimisation.
2011	Browse LNG Development - Downstream Peer Review Presentations, Australia	Presenter. Presentation and discussion of findings to peer review panel for Strategic Environmental Assessment for the proposed Browse LNG Presinct Development at James Price Point, Kimberley, Western Australia.
2010 - 2011	Browse LNG Development - Cyclone Modelling and Assessment, Australia	Project Manager. Cyclone modelling and assessment of related coastal impacts for Strategic Environmental Assessment for the proposed Browse LNG Presinct Development at James Price Point, Kimberley, Western Australia.
2010	Browse LNG Development - Upstream Post/Pre-lay Trenching, Australia	Project Manager. Dredge plume modelling and input to impact assessment for the Strategic Environmental Assessment for the proposed Browse LNG Presinct Development at James Price Point, Kimberley, Western Australia.
2010 - 2011	Wheatstone LNG Development - Layout Changes to Materials Offloading Facilities, Australia	Project Manager. Assessment of Environmental effects of layout changes to the coastal harbour for the Materials Offloading Facility, including modelling of effects to coastal sediment transport and budget and oil spill dispersion.
2010 - 2011	Wheatstone LNG Development - Support to Chevron in regulator consultation, Australia	Project Manager. Support to Chevron in regulator consultation, including presentations to state and federal government regulators.
2010	Wheatstone LNG Development - Nearshore Discharge Modelling, Australia	Project Manager. CORMIX and 3D modelling of marine outfalls, comprising mixed nearshore discharges including produced water and grey water at two different locations.
2010	Dredge Plume Impacts to Coral Larvae, Australia	Project Manager. Modelling of potential impacts to coral larvae from dredge plumes and siltation. The potential impacts were assessed based on the statistical overlap between modelled dredge plumes and coral larvae dispersed over a 10 day period following coral spawning.
2010	Browse LNG Development - Coastal Sediment Transport Processes, Australia	Project Manager. Assessment of Coastal Impact, channel backfill rates and maintenance requirements for Strategic Environmental Assessment for the proposed Browse LNG Presinct Development at James Price Point, Kimberley, Western Australia.
2010 - 2011	50209 Whakatane Harbour Entrance Improvement Project, New Zealand	Technical Expert. Provided technical advice and assistance on river mouth study of the potential to upgrade the navigaitonal access through the Whakatane river mouth
2010 - 2011	Browse LNG Strategic	Technical advisor and head of modelling team.

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	Assessment, Australia	Strategic coastal impact assessment. Provided input to dredge plume modelling.
2010	Course on Shoreline Management, Singapore	Lecturer. Providing lectures on shoreline management in Malaysia for course on shoreline management in Singapore.
2009 - 2010	Environmental modelling for the Browse Downstream Project, Australia	Technical Advisor. Dredge plume modelling and oil spill modelling.
2009 - 2010	Tsunami Modelling Impact Assessment for North and East Coast of Sabah, Malaysia	Technical Advisor and modelling team leader. Tsunami modelling and impact assessment for South China, Sulu and Sulawesi Sea tsunami impacts on Sabah
2009	Side scan and sub-bottom profiling survey, Myanmar	Project Director. . A survey was carried out along the 24 inch PCML pipeline using high resolution side scan sonar to detect if the pipeline is buried or exposed or above the seabed (free-span).
2009	Murphy Oil. Metocean design conditions for West Patricia, Sarawak, Malaysia	Project Director. Additional work on derivation of met-ocean design conditions for West Patricia oil/gas field.
2009	Design of Permanent Solution for Yetagun & Yadana Pipelines, Myanmar	Project Director. Appointed to make a revision of the metocean conditions near the landfall for the pipelines and perform a detailed assessment of possible coastal protection design options for the pipelines within the surf zone.
2009	Sabah Oil and Gas Terminal, Kimanis Landfall Study, Malaysia	Project Director. Assessment of morphology and pipeline stability at landfall site.
2009	Sapangar Bay Terminal Online Monitoring System, Malaysia	Project Director. Instrumentation and installation of Meteomarine monitoring system.
2009	SOGT Kimanis. Thermal Plume and Sedimentation Assessment for Preliminary and Detailed Design Input, Malaysia	Project Director. Providing preliminary design input and guidance at the pre-tender phase.
2009	Providing evidence to the Environmental Court for the Opotiki River Mouth Training, New Zealand	Technical Expert. Preparing and providing written and verbal evidence to the environmental hearing for the proposed Opotiki river mouth training.
2008	Department of Irrigation & Drainage Coastal Manual, Malaysia	. Input to the Coastal Manual. Chapter 4: River Mouth Dynamics and Management Guidelines.
2008	DHI-NTU Research Centre, Singapore	. Technical input to project definition under the joint DHI-NTU Research Centre, Singapore.
2008	Cobia Farm HD Study	Project Director. Additional investigations into large

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	Phase 2, Malaysia	scale fish farming in Malaysia
2008	Kuching Flood Bypass, Sarawak, Malaysia	Project Director. Assessment of hydraulic impacts for input to EIA for flood bypass system for Kuching, Sarawak.
2008	Kuala Terengganu Airport Reclamation, Sand-source studies, Malaysia	Project Director. Assessment of sediment plume impacts from sand sourcing for reclamation for runway extension.
2008	Langkawi Nourishment Hydraulic Studies, Malaysia	Project Director. Assessment of stability and impacts of proposed beach nourishment.
2008	Landfall Study for Yetagun and Yadana Pipelines, Myanmar	Project Director. Coastal assessment and coastal protection study for exposed pipelines at landfall area for Petronas and Total, Myanmar.
2008	Similajau Port Masterplan, Sarawak, Malaysia	Project Director. Design Conditions and input to design optimisation and impact assessment for Masterplan study of major port development, Similajau, Sarawak
2008	Murphy Oil. Metocean design conditions for West Patricia, Sarawak, Malaysia	Project Director. Determination of met-ocean design conditions for West Patricia oil/gas field.
2008	Bintulu Port Sedimentation Studies, Bintulu, Malaysia	Project Director. DHI is contracted to carry out sedimentation studies, sediment plume modelling for disposal ground as well as carry out hydrographic survey
2008	Tawau Reclamation for commercial development, Sabah, Malaysia	Project Director. EIA for reclamation project for major commercial complex development.
2008	Kuala Terengganu Airport extension coastal monitoring, Malaysia	Project Director. Establishment of coastal monitoring programme and reporting on regular coastal monitoring programme.
2008	Shell Sarawak side-scan sonar and habitat survey, Malaysia	Project Director. Habitat surveys and mapping for proposed pipeline and platform sites
2008	South China Sea Wave Model, Singapore	Project Director. Hindcast and forecast wave data of the entire South China Sea.
2008	Cutad and Hamilo Coves for the Hamilo Coast project, Ternate, Cavite, Philippines	Project Director. Hydraulic and Coastal Engineering study for the Hamilo Coast Development.
2008	Proposed Dry Dock and Dredging Works, Johor Bharu, Malaysia	Project Director. Hydraulic modelling study in support of EIA.
2008	Sapangar Bay Oil Terminal, Impact assessment for Jetty Extension, Sabah, Malaysia	Project Director. Impact assessment for extension of jetty for Sapangar Bay Oil Terminal

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2008	Sandakan Fisheries Jetty and Dredged Channel, Sabah, Malaysia	Project Director. Impact assessment for input to EIA for marine components of proposed fisheries complex
2008	Kimanis Gas-Fired Power Plant, Sabah, Malaysia	Project Director. Input on current patterns, thermal plume and chlorine dispersion, sediment dispersion, coastal morphology impact, marine ecology as well as design input.
2008	Shell Off-shore surveys, Sarawak, Malaysia	Project Director. Input to ERM for offshore survey campaign for Shell, Sarawak.
2008	Shell Sarawak deep water coral habitat surveys, Malaysia	Project Director. Mapping of coral habitats through ROV surveys.
2008	Shell Sarawak. Drill Waste Plume Modelling, Malaysia	Project Director. Modelling and impact assessment of drill waste from offshore platform.
2008	Labuan Mega-methanol Jetty, Malaysia	Project Director. Post-construction Hydrographic and side-scan sonar survey to identify any construction debris.
2008	Initial Hydraulic design conditions for site assessment for import/export Jetty, Malaysia	Project Director. Provision of preliminary hydraulic design conditions for site selection for major import/export jetty complex.
2008	Shore Approach Survey Yetagun & Yadana Pipelines, Myanmar	Project Director. Revision of metocean conditions and assessment of coastal protection design for the pipelines.
2008	Pasir Gudang MMHE Dredging, Johor, Malaysia	Project Director. Sediment plume impact assessment for proposed maintenance dredging campaign
2008	Kedah Oil Refinery Oil Spill Modelling, Malaysia	Project Director. Survey campaign for oil spill modelling for proposed Kedah Oil Refinery.
2008	Kudat Open Ocean Fish Cage Study, Sabah, Malaysia	Project Director. To assess the viability of open cage fish farming in Kudat.
2008	ISMP Melaka Proposed Topographic, Hydrographic and Associate surveys from Muara Sg Linggi to Muara Sg Muar, Malaysia	Project Director. To undertake surveys to supplement existing hydraulic, sediment transport, water quality data for model-set up and calibration/verification purposes
2008	Sepang Gold Coast, Malaysia	Project Manager. Assessment of morphological impacts of temporary construction platform.
2008	DHI Singapore Technical Assistance, Singapore	Technical Director. Technical input and QA role on numerous projects in Singapore and South-east Asia for regional hub.
2007	Proposed causeway-bridge linking mainland to Pulau	Project Director. A desk-top study to address the hydrodynamics, wave and also morphological

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	Udar Kecil, Sepangar, Sabah, Malaysia	impacts on the proposed causeway and bridge linkage is associated with reclamation works across the existing 505m wide strait between Pulau Udar Kecil and mainland Sabah
2007	Labuan Jetty Assessment, Labuan F. T., Malaysia	Project Director. A new Jetty is proposed along an existing reclamation with dredged deep water and DHI is to carry out an assessment of potential hydraulic impacts.
2007	Desktop assessment of proposed reclamation at Sungai Nibong, Penang, Malaysia	Project Director. A preliminary assessment of 4 potential reclamation sites to identify any potential “stoppers” for reclamation and EIA approval.
2007	Langkawi Resort Site Selection, Pulau Langkawi, Malaysia	Project Director. Assessment of siting of artificial beaches and a marina for an international resort development.
2007	ISMP Melaka, Malaysia	Project Director. Comprehensive shoreline management plan covering Melaka. Study includes intensive field campaigns and numerical modelling to establish baseline conditions. Establishment of management strategies and definition of management units
2007	Labuan Sand Source Modelling, Malaysia	Project Director. DHI carried out a numerical modelling study on the potential hydraulic and sediment plume impacts to support an environmental impacts assessment for sand sourcing of approximately 215,000 m3 over a three years period at a location offshore Pulau Labuan, in the Brunei Bay
2007	Minahas 2 x 55MW CSFPP, Sulawesi, Indonesia	Project Director. DHI conducted the hydrographic survey and preliminary model study on optimisation of jetty and cooling water layout
2007	Sealord Fish Farm Site Assessment Study, Malaysia	Project Director. DHI was contracted to investigate potential farm and hatchery sites around the Sabah shoreline and provide basic information on associated aquaculture industries.
2007	Perak Sand Source Hydraulic Modelling and EIA Study, Perak, Malaysia	Project Director. EIA for sand extraction from an area in approximately 30m water depth offshore of Perak. This study outlines the development and application of numerical modelling to assess potential impacts associated with offshore sand sourcing for the project. It considers hydraulics and sediment plume movement offshore of Perak.
2007	Tg. Dawai Fabrication Plant for Oil Rig, Kedah, Malaysia	Project Director. Hydraulic modelling and marine ecology studies in support of an EIA for the oil rig fabrication plant.
2007	Kuantan Mega Port, Kuantan, Malaysia	Project Director. Hydraulic studies for layout optimisation and to support an EIA for a proposed major port development.

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2007	Pulau Perhentian Pipeline Study, Terengganu, Malaysia	Project Director. Hydraulic studies in support of the PEIA.
2007	Sungai Duyong Fishing Hub, Malacca, Malaysia	Project Director. Hydraulic studies to address issues directly related to construction of a new berthing facility for fishing boats constructed in a dredged basin to the west of the river.
2007	Initial Assessment of Port Tg Ayam, Johor, Malaysia	Project Director. Initial assessment of proposed port locations in South Johor
2007	KKIA Sand Source Study, Sabah, Malaysia	Project Director. Numerical modelling study on the potential hydraulic and sediment plume impacts from sand sourcing for Kota Kinabalu International Airport (KKIA) redevelopment of approximately 5 million m ³ of sand at a location offshore of Kota Kinabalu, Sabah
2007	ISMP Penang, Malaysia	Project Director. Scopes included data collection, investigations, and establish baseline conditions for the coastal processes in the area through a desk study and numerical modelling. The baseline study will make extensive use of numerical models for coastal sediment budgets, marine sediment budgets, erosion threat mapping, marine water quality and river sediment plume dispersion.
2007	Runway Reclamation for Sultan Mahmud Airport, Terengganu, Malaysia	Project Director. The hydraulic study is carried out to document the impacts of the runway extension, which will be carried out as sea reclamation.
2007	Cooling Water Shortage Study, Kapar Power Station, Malaysia	Project Director. The objective of the study is mitigation of cool water shortage at the power station.
2007	Pahang River Mouth Improvement Studies, Pahang, Malaysia	Project Director. The study was to determine a layout of river mouth improvement works which will secure adequate navigation depth at the LKIM jetty facility, safe navigation through the river mouth and provide sufficient wave sheltering at the berthing area without unacceptable impacts in terms of e.g. flooding and coastal erosion.
2007	Penang Reclamation, Penang, Malaysia	Project Director. To assess the potential impacts of the reclamation, a numerical modelling study including hydrodynamic, wave and sediment transport is required to be carried out for the proposed reclamation of approx. 37.4 acres of land at the east coast of Penang Island.
2007	Proposed Layout Changes to Pulau Warisan, Terengganu, Malaysia	Project Director. To carry out an assessment of potential flow and flood impacts according to new design changes and to ensure the new reclamation shape would not have negative impacts on flow and flood release to the revertment to be built at the edges of Pulau Warisan.

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2007	Sandakan Reclamation, Sabah, Malaysia	Project Director. To carry out hydraulic modelling to form the basis for hydraulic impacts and sediment plume modeling in respect of the reclamation.
2007	Sipitang Esplanade, Sabah, Malaysia	Project Director. To carry out hydraulic modelling to form the basis for hydraulic impacts and sediment plume modeling in respect of the reclamation.
2007	Boustead Naval Shipyard Lumut, Perak, Malaysia	Project Director. To carry out numerical modelling for a hydraulic study for the proposed new ship-lift at Lumut Naval Dockyard to consider design aspects such as current and wave climate at the site and assessment of potential sedimentation and also environmental assessment.
2007	Kuantan River Mouth Improvement Studies, Kuantan, Malaysia	Project Director. To carry out the detailed hydraulic studies and provide input to the conceptual and detailed design of the project and also to identify and investigate ways to ensure safe and convenient navigation for the fishing fleet through the river mouth while ensuring that the river mouth has the necessary hydraulic capacity to minimise the risk of upstream flooding with minimum impacts on e.g. coastal morphology
2007	Sabah Oil and Gas Nearshore Sand Source, Kimanis Bay, Sabah, Malaysia	Project Director. To conduct and produce an environmental statement/technical note on the potential environmental impacts and feasibility of sourcing sand.
2007	Cobia Site Study, Malaysia	Project Director. To establish large-scale marine fin fish farming in Malaysia
2007	DEIA for proposed development of Integrated Port at Ranca-Ranca, Labuan F.T., Malaysia	Project Director. To focus on the coastal hydraulics component using numerical modeling for baseline assessment, impact prediction and assessment of mitigation measures inclusive of layout optimisation.
2006	Proposed dredged navigation channel at Sg. Salut, Sabah, Malaysia	Project Director. A hydraulic study to support an EIA for the dredging of a navigation channel, inclusive of morphological assessment within lagoon, through river mouth and in the sea.
2006	Proposed airport for Pulau Tioman, Malaysia	Project Director. A study to assess the hydraulic and coastal impacts of the reclamation for the proposed project.
2006	KKIA Sandsource Studies, Malaysia	Project Director. Application of numerical modelling to assess potential impacts associated with offshore sand sourcing.
2006	Labuan Integrated Shoreline Management Plan, Labuan F.T., Malaysia	Project Director. Coastal assessment and engineering component of the Labuan Shoreline Management Plan

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2006	Kuala Terengganu River Mouth Reclamation Phase 2, Terengganu, Malaysia	Project Director. Design of coastal protection for 8 km of coastline.
2006	DEIA for the proposed beach reclamation at Tg. Api, Kuantan, Pahang, Malaysia	Project Director. Design optimisation and EIA for major tourism development on reclaimed land
2006	Cambodia Institutional Strengthening, Cambodia	Project Director. EIA case study and training of government authorities.
2006	Proposed reclamation of Mersing Laguna, Mersing, Johor, Malaysia	Project Director. EIA for major tourism development on reclaimed land, inclusive of design optimisation for creation of stable beaches and internal waterways
2006	Proposed Sandakan Integrated Barter Trade Terminal Development at Batu Sapi, Sandakan, Sabah, Malaysia	Project Director. EIA for Sandakan Barter Trade Terminal, inclusive of modelling studies for jetty and also identify key environmental impacts
2006	Labuan Mega Methanol Jetty EIA, Labuan F.T., Malaysia	Project Director. EIA of jetty construction for the proposed Mega Methanol Plant.
2006	Penang Marina Reclamation Project, Penang, Malaysia	Project Director. Hydraulic and coastal impact assessment through numerical modelling of the proposed Penang Marina, inclusive of reclamation.
2006	Penang Reclamation Impact Assessment, Penang, Malaysia	Project Director. Hydraulic and morphological impact assessment for reclamation works.
2006	EIA for the proposed jetties at Pulau Balambangan and Sapangar Bay Clinker Plant, Sapangar, Sabah, Malaysia	Project Director. Hydraulic impact assessment for jetty development.
2006	Lido Boulevard Reclamation, Johor, Malaysia	Project Director. Hydraulic impact assessment of proposed water front development at Lido, Johor.
2006	Proposed Palm Oil Cluster (POIC) Sandakan, Sabah, Malaysia	Project Director. Hydraulic impact assessment of reclamation for the Sandakan Palm Oil Industrial Cluster in support of EIA.
2006	Port Klang Harbour City Reclamation, Selangor, Malaysia	Project Director. Hydraulic impact assessment of the Harbour City Reclamation at Port Klang.
2006	Integrated Shoreline Management Plan, Negeri Sembilan, Malaysia	Project Director. Hydraulic model studies and coastal component of Shoreline Management Plan for Negeri Sembilan.
2006	Klang Marina Hydraulic	Project Director. Hydraulic studies and impact

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	Studies, Selangor, Malaysia	assessment for proposed marina site.
2006	Proposed reclamation of sea for the redevelopment of KKIA, Malaysia	Project Director. Hydraulic studies for the reclamation for extension of Kota Kinabalu International Airport.
2006	Royal Malaysian Navy Access Road Extension, Sapangar Bay, Sabah, Malaysia	Project Director. Hydraulic studies on impacts and design aspects of access road on reclaimed causeway
2006	Kuala Terengganu Reclamations, Terengganu, Malaysia	Project Director. Hydraulic study on the impact of dredging and reclamation works in the Terengganu River near Kuala Terengganu
2006	Proposed land reclamation for integrated resort project in Tumpat, Kelantan, Malaysia	Project Director. Impact assessment and design optimisation through numerical model study of major reclamation development on highly dynamic coastline and lagoon system.
2006	Batu Ferringhi coastal protection, Penang, Malaysia	Project Director. Morphological assessment of coastal stretch with small river mouths.
2006	Sg. Duyong River Mouth Study, Melaka, Malaysia	Project Director. Numerical modelling study to address navigation and siltation problems in the Sg. Duyong river mouth and channel
2006	Sg. Bebar, Nenasi, River Mouth Project, Pahang, Malaysia	Project Director. Numerical modelling study to identify and assess possible river mouth stabilisation on morphologically dynamic coastline
2006	Lahad Datu POIC Jetty EIA, Lahad Datu, Sabah, Malaysia	Project Director. PMM of Jetty development
2006	Silam Power Station, Lahad Datu, Sabah, Malaysia	Project Director. Preliminary modelling of currents and thermal plume for tender support for the Silam Power Station.
2006	Yemen LNG,	Project Director. Review of design conditions for LNG Terminal in Yemen, inclusive of wave, 3D current and mooring analysis.
2006	EIA for sand mining offshore Sg. Udang, Melaka, Malaysia	Project Director. To assess the hydraulic and sediment plume impacts of the borrow pit using numerical modeling.
2006	DEIA for the proposed Mukah Power Plant, Mukah, Sarawak, Malaysia	Project Director. To carry out numerical modelling to support the assessment of potential impacts to the marine environment due to discharge of cooling water and on the impacts on the coastline due to the plant.
2006	EIA and QRA for the Proposed Sabah Oil and Gas Terminal (SOGT) at Kimanis, Sabah, Malaysia	Project Director. To undertake the hydraulic and morphological impact assessment for the main EIA to perform an impact assessment on the marine habitats and other environmental receptors.

Year	Project, Country	Position and activities
2006	South China Sea Wave Modelling,	Project Director. Wave modelling for the South China Sea to assess modelling capabilities and requirements for longterm monitoring.
2006	Assessment of effect of mangroves on tsunami propagation., Malaysia	Project engineer. Hydraulic modelling assistance for Nahrim for assessment of the effects of mangroves on tsunamis and the exposure of coastline along Straits of Melaka.
2006	Sg. Papar River Mouth Studies, Papar, Sabah, Malaysia	Project Manager. Assessment of navigation and siltation problems in the Papar river mouth
2006	Opotiki Rivermouth, New Zealand	Project manager. Coastal component of design review of proposed river mouth training of Opotiki Harbour.
2005	Proposed palm oil industrial cluster at Lahad Datu, Sabah, Malaysia	Project Director. Coastal hydraulic study of the project
2005	Cambodia Coastal Zone Environmental Management, Cambodia	Project Director. Coastal zone management of the Cambodia shoreline
2005	Deepwater coral survey, Offshore Sabah, Malaysia	Project Director. Deepwater coral survey at South Furious Shoal
2005	Kunak Oil Jetty, Kunak, Sabah, Malaysia	Project Director. EIA aspect of the proposed oil jetty. Tasks included coastal morphology, sediment plumes and environmental impacts
2005	Labuan Market, EMMP, F.T. Labuan, Malaysia	Project Director. EMMP study
2005	Sandakan Oil Palm Jetty, Sandakan, Sabah, Malaysia	Project Director. EMMP study
2005	Proposed reclamation and sand source study at F.T. Labuan, Malaysia	Project Director. Environmental impact assessment study
2005	Jimah Power Station, Malaysia	Project Director. Feedback monitoring on 2x 700MW coal fired power plant project at Jimah
2005	Coastal protection works, Pantai Sabak, Kelantan, Malaysia	Project Director. Hydraulic and coastal engineering studies.
2005	Coastal protection works, Bukit Chendering to Kuala Marang, Terengganu, Malaysia	Project Director. Hydraulic and coastal engineering study
2005	Widening of the Penang Bridge, Penang, Malaysia	Project Director. Hydraulic modelling and design engineering
2005	Sepang Gold Coast,	Project Director. Hydraulic modelling at the site between Kuala Sepang Besar and Kuala Sepang

Year	Project, Country	Position and activities
	Malaysia	Kecil, Bagan Lalang, Mukim Sepang.
2005	Dredging dumping site at Asian Supply Base, F.T. Labuan, Malaysia	Project Director. Hydraulic study
2005	EIA for the proposed 3-sand borrow areas in Straits of Malacca, Selangor Darul Ehsan, Malaysia	Project Director. Hydraulic study on the 3-proposed sand borrow sites
2005	Proposed extension of the Asian Supply Base, F.T. Labuan, Malaysia	Project Director. Hydraulic study on the proposed extension of the Asian Supply Base site
2005	Coral Mapping at Teluk Dalam, Pulau Redang, Malaysia	Project Director. Overseeing the completion of the coral reef mapping
2005	Proposed breakwater for Terengganu, Malaysia	Project Director. Review of the proposed breakwater for Terengganu
2005	PMLSB Mega Methanol Project, F.T. Labuan, Malaysia	Project Director. Sea water plume dispersion study
2005	Proposed pipeline between F13 and F13 West, Miri, Sarawak, Malaysia	Project Director. Sediment plume modelling for the study
2005	Proposed Resort Development at Police Beach, Pulau Gaya, Sabah, Malaysia	Project Director. the EIA aspect of the proposed development. Tasks included coastal morphology, sediment plumes and environmental impacts
2005	Stockton Beach, Australia	Project engineer. Support to Australian office for modelling and management of coastal areas suffering from erosion; establishment of local management plan.
2004	Detailed Impact Assessment of Tuas View Extension and Pulau Tekong Land Reclamations, Singapore	Project engineer. Detailed independent multi-disciplinary impact assessment as part of ITLOS proceedings between Malaysia and Singapore relating to cross-border environmental impacts from reclamation works.
2004	Jimah Power Station, Lukut, Malaysia	Project Manager. Comprehensive 3D thermal plume and siltation study for EIA aspects and design optimisation of cooling water structures
2004	Jimah Power Station, Lukut, Malaysia	Project Manager. Hydraulic modelling study in support of EIA. Assessment included coastal thermal plumes, coastal morphology, sediment plumes and backwater effects in river.
2003 - 2006	Sabah Shoreline Management Plan, Sabah, Malaysia	Project Director. Comprehensive shoreline management plan covering the entire coast of Sabah. Study includes intensive field campaigns and numerical modelling to establish baseline

Year	Project, Country	Position and activities
		conditions. Establishment of management strategies and definition of management units
2003	Royal Malaysian Naval Base Sapangar Bay, Kota Kinabalu, Sabah, Malaysia	Project engineer. Design wave & water level study for the proposed development of the Royal Malaysian Naval Base at Sapangar Bay, Kota Kinabalu, Sabah
2003	Burdekin Storm Surge Study, Brisbane, Australia	Project engineer. Establish detailed hindcast and forecast models for modelling of cyclone induced storm surges.
2003	Portugis Village, Melaka, Malaysia	Project engineer. Hydraulic study of the urban renewal scheme – tourist complex on the sea reclamation site at Portugis Village, Town Area, Melaka
2003	JIP4 Comprehensive Impact Assessment, Singapore	Project engineer. Impact assessment of the world's largest ongoing reclamation project. Extensive modelling of currents, waves, sediment plumes, morphology, eutrophication.
2003	Sandakan Market Sandsource EIA, Sandakan, Sabah, Malaysia	Project engineer. Numerical modelling of sediment plume and morphological stability in connection with sand borrow dredging.
2003	Pulau Mentangor Marina, Pulau Pangkor, Malaysia	Project Manager. Optimization of proposed marina. Hydraulic study of currents and navigational conditions, design conditions, wave disturbance, siltation
2002	Tuas Power Turbidity, Singapore	Project engineer. Modelling of potential added turbidity in the water intake for Tuas Power due to ongoing reclamation activities.
2002	Terengganu Breakwater Project, Malaysia	Project engineer. Modelling of waves, hydrodynamics, morphology, wave disturbance, 3d-salinity in connection with design and optimization of breakwaters for river mouth training and establishment of harbour.
2002	Langkawi, Malaysia	Project engineer. Wave and coastal stability study for proposed groin and beach nourishment project.
2001 - 2002	Likas Bay, Sabah, Malaysia	Survey and re-assessment of volume for potential reclamation project
2001 - 2002	Pulau Ular reclamation, Singapore	Project engineer. Assessment of hydraulic, thermal, sedimentological, navigational and environmental impact of major proposed reclamation project.
2001 - 2002	Sungai Muda River Mouth, Malaysia	Project engineer. Assessment of morphological stability, navigation and flood management in connection with proposed river mouth training. Assessment of morphological stability for second river barrage.

Year	Project, Country	Position and activities
2001 - 2002	Sapangar Bay Naval Port, Sabah, Malaysia	Technical Supervisor. Modelling of sediment plumes from proposed dredging sites
2001	Jurong Island, Layout Testing, Singapore	Assessment of alternative reclamation schedules on navigational conditions in the Singapore Straits through numerical modelling.
2001	Merbau & NGL Cracker, Singapore	Assessment of hydraulic, thermal and navigational impact of major proposed reclamation projects.
2001	Intergen Site Selection, Singapore	Feasibility study for site selection for power plant. Identification of thermal discharges and modelling of present and future thermal balance.
2001	Jurong Island Thermal Balance, Singapore	Project engineer. 3-dimensional numerical assessment of thermal balance around Jurong Island for planning of future thermal discharges.
2001	Jurong Island Phase 4-Tuas View Extension, Singapore	Project engineer. Establishment of major hydraulic model covering the entire Singapore Straits. Detailed current forecasting and evaluation of navigational conditions at SPMs.
2001	Illawarra Wave Refraction, Wollongong, Australia	Project engineer. Establishment of near-shore design wave conditions based on off-shore statistics and 2d wave modelling.
2001	Kota Belud SMDS Met-Ocean Project, Sabah, Malaysia	Technical manager. Establishment of numerical hydraulic and thermal models for a proposed SMDS plant.
2001	Kuala Belait Breakwater Hydraulic Study, Brunei	Technical manager. Hydraulic and morphological assessment of design of river mouth training and navigation channel.
2001	Kuantan River Mouth Improvement Project, Pahang, Malaysia	Technical manager. Hydraulic and morphological assessment of design of river mouth training and navigation channel.
2000 - 2001	Pilot study – Offshore Sand Source Study for Likas Bay Reclamation, Sabah, Malaysia	Technical manager. Hydraulic and sediment plume modelling.
2000	Likas Mangroves, Sabah, Malaysia	Project Engineer. Detailed study of salinity balance and drainage within Likas Mangroves, KK City Bird Sanctuary. Optimisation of channel layout and design.
2000	Gelugor Mainline Project. Environment and Seabed Erosion Study, Penang, Malaysia	Project engineer. The morphological stability study along the pipeline.
2000	Lekir Bulk Terminal, Perak, Malaysia	Technical manager. Extensive field campaign including hydrographic survey, tide and current measurements, sediment core sampling, visual diving inspection.

Year	Project, Country	Position and activities
2000	Manjung Power Station Project. Cooling Water Intake Culverts (Offshore) Hydrographic Survey, Lumut, Perak, Malaysia	Technical manager. Extensive field campaign including hydrographic survey, tide and current measurements, sediment core sampling, visual diving inspection.
1999 - 2000	Sapangar Bay Container Port hydraulic studies, Sabah, Malaysia	Project Engineer. Assessment of hydraulic impact, sedimentation, flooding and water quality for container port development
1999 - 2000	Meruntum Lagoon, Sabah, Malaysia	Project Engineer. Assessment of water quality aspects within lagoon. Analysis of impacts from dredging spoils and optimisation of mitigation measures.
1999	Papar Islamic School coastal protection, Sabah, Malaysia	Project Engineer. Assessment of coastal sediment balance and coastal protection options.
1998 - 2000	Pulupandan Port Masterplan, Philippines	Project Manager. 4 months' expatriation in Philippines, Masterplan for port development, numerical investigation of hydraulics and sediment transport, training.
1998 - 1999	, Malaysia	Project Engineer. Varieties of coastal projects during 16 months' expatriation.
1998	Sabah Shoreline Management Plan, Malaysia	Project Engineer. Focus on regional sediment balances throughout Shoreline Management Plan for West Coast of Sabah
1997 - 1998	Tanshui Harbour, Taiwan	Project Manager in Taiwan during 2 months' expatriation. Investigation of coastal erosion and siltation, define coastal protection scheme in connection with major harbour development.
1997	SPA Technical Assistance Phase I. 3 months expatriation in Cairo, Egypt	Training of 2 groups of local engineers in coastal processes and the application of numerical tools (LITPACK).
1997	Jumeirah Coastal Zone Management, United Arab Emirates	Project Engineer. Redesign of coastal protection works. 2-dimensional morphological simulations.
1997	Hurghada, Egypt	Project Manager. Marina development including investigations of waves, sediment transport, coastal erosion and stability and water quality aspects
1996 - 1997	Kerengga Harbour, Malaysia	Project Manager and Engineer. Large proposed harbour, investigation of: Coastal and river impact, sedimentation of approach channel and harbour basins, design waves and water levels, wave agitation. Extensive use of numerical models.
1996	LITPACK, India	LITPACK installation and training course.
1996	LITPACK, Indonesia	LITPACK installation and training course.

Year	Project, Country	Position and activities
1996	NTOU II, Taiwan	LITPACK training course.
1996	Marang River Mouth Improvement Project, Malaysia	. Three and a half month expatriation in Malaysia in connection with technical assistance for the Marang River Mouth Improvement Project.
1996	LITPACK training course, Malaysia	Training Course
1996	Turtle Island, Indonesia	Project Engineer. Littoral transport modelling, coastline stability, impact of large reclamation works
1995	LITPACK,	Extensive work on updating and developing DHI's numerical modelling tool for littoral processes, LITPACK.
1995	Installation of LITPACK., Germany	Training course in LITPACK.
1995	Installation of MIKE 21 and LITPACK., Taiwan	Training in LITPACK.
1995	Al-Sharq Waterfront Project, Kuwait	Project Engineer. 2D Sedimentation study of harbour entrance.
1995	Nouakchott, Mauritania	Project Engineer. Sedimentation and coastal erosion study.
1995	EXPO '98 Marina,	Project Engineer. Sedimentation study of proposed marina for EXPO '98.
1994 - 1995	Yunlin, Taiwan	Four months expatriation in Taiwan. Project on large reclamation and associated problems. Application of MIKE 21 and LITPACK to a variety of problems. Supervision and training of local staff in the use of LITPACK and MIKE 21.
1994	Guldborg Marina, Denmark	Project Engineer. Evaluation of sedimentation processes in a harbour
1994	Thyborøn, Denmark	Project Engineer. Morphological development around a tidal inlet.
1993 - 1994	LITPACK,	Development of software package for littoral processes.
1993 - 1994	Rio Piedras, Spain	Future development of a sandspit at a tidal inlet
1993 - 1994	MAST,	Research in flow over ripples
1993	Seapipe, Korsør, Denmark	Project Manager. Protection of a seapipe at an eroding beach.

Languages	Speaking	Reading	Writing
Danish	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Poor	Poor	Poor
French	Poor	Poor	Poor

Publications

Papers published in peer-reviewed international journals:

Pedersen, C; Deigaard, R; Fredsøe, J; and Hansen, EA (1995): Simulation of sand in plunging breakers. *Journal of Waterway, Port, Coastal and Ocean Engineering*, ASCE, Mar/Apr 1995, Vol 121 No 2, pp 77-87.

Fredsøe, J; Sumer, MS; Laursen, TS; and Pedersen, C (1993): Experimental investigation of wave boundary layers with a sudden change of roughness. *Journal of Fluid Mechanics*, Vol 252, pp 117-146, July 1993.

Papers published in international conference proceedings:

Savioli J.C; Pedersen C; Rijmenant J.V; Oliver M.A; Chua J.F and Rocha C. (2013): Dredging - how can we manage it to minimise Impacts. *Proceedings of the 7th International Conference on Asian and Pacific Coasts (APAC 2013)*. Bali, Indonesia, 2013.

Nielsen C; Sidek M.Y; Pedersen C and Madsen H. (2012): Drainage design in Brunei Darussalam; Generation of Design Rainfall and Ocean Water Level Conditions. *Engineers Australia 34th Hydrology and Water Resources Symposium*, Sydney, 2012.

Hjelmager J. and Pedersen C. (2012): River Mouth Management in Malaysia – an Overview of Issues. *8TH International Conference on Coastal and Port Engineering in Developing Countries*, Madras, India, 2012.

Pedersen, C; Ling A. and Driscoll A. (2014): Dredge Plume Forecasting & Management. Poster Presentation. *International Conference on Coastal Engineering (ASCE)*. Seoul, Korea, 2014.

Pedersen, C; Ling A.C.C and Hjelmager J. (2011): Merits of a Scenario Approach in Dredge Plume Modelling. *Coasts and Ports*, Perth, 2011.

Pedersen, C; Deigaard, R; Fredsøe, J; and Hansen, EA (1992): Sediment transport due to plunging breaking waves. *Proceedings MAST G6 Coastal Morphodynamics*, Pisa, Italy, May 1992.

Pedersen, C; Deigaard, R; Fredsøe, J; and Hansen, EA: Numerical simulation of sand in plunging breakers. *Proceedings of 23rd Conference on Coastal Engineering*, ASCE, Venice, Vol 2, pp 2344-2357.

Pedersen, C; Mangor, K; Foster, T; and Wong, WT (1996): The application of numerical modelling in river mouth stabilisation. The Marang case. *Proceedings from the Tenth Congress of the Asia and Pacific Division of the International Association for Hydraulic Research (IAHR)*, Langkawi, Malaysia, 1996.

Pedersen, C; Ziauddin A.L and Lai C. (2010): Tsunami Modelling and Risk Mapping for East Coast of Sabah, Malaysia. *Proceedings of 32nd International Conference on Coastal Engineering*, ASCE, Shanghai, 2010.

Pedersen, C and Ling A.C.C (2011): Dredge Plume Modelling as a Tool in Ecological Impact Assessments. Presentation at AMSA Conference, Perth, 2011.

Books and book chapters:

JPS Malaysia Coastal Manual. Chapter 4: Rivermouth/tidal inlet management and planning guidelines.

Other Publications:

Pedersen, C (1993): Numerical simulation of sediment transport due to plunging breaking waves. Series Paper No 58, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark.

Pedersen, C; Deigaard, R; and Sutherland, J (1993): Turbulence measurements under broken waves. Progress report No 74, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark.

Pedersen, C (1990): Experimental investigation of bed properties in oscillatory flow. MSc thesis, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark.

Sumer, BM; Pedersen, C; Yu, D; and Fredsøe, J (1990): Bed shear-stress measurements in the vicinity of a pipeline in waves. Progress report no. 71, Institute of Hydrodynamics and Hydraulic Engineering, Technical University of Denmark.

DORATHY PENJINUS

Current Address:

Lot 13, 2nd Floor, Block B,
Lintas Square, Jalan Lintas,
88300, Kota Kinabalu,
Sabah, Malaysia.

Mobile:

+6 019 528 0602

Email:

dorathypenjinus@gmail.com

NATIONALITY Malaysian

DATE OF BIRTH 26th June 1990

LANGUAGES Malay, English

EDUCATION **BSc. (Hons) Marine Science** | School of Science and Technology,
Universiti Malaysia Sabah | 2009 – 2012

WORK EXPERIENCE **Co-founder / Marine Biologist** | Sealance Marine Enviro Services
Plt.
15th May 2019 – Present

Marine Biologist | Berjaya Corporation Bhd.
1st November 2018 – 14th May 2019

Environmental Scientist | Aquadynamic Solutions Sdn. Bhd.
18th May 2015 – 31st May 2018

Program Coordinator (Marine Biologist) |
Reef Guardian Sdn. Bhd.
02nd April 2014 – 27th April 2015

Environmental Executive | Envsolve Sdn. Bhd.
04th October 2012 – 31st March 2014

Intern | DHI Water & Environment (M) Sdn. Bhd.
04th July 2012 – 30th September 2012

CERTIFICATION Registered Environmental Consultant with **Environment
Protection Department (EPD) Sabah** |
Field of Expertise : Marine Science
Registration No. : S0216
Valid Through : 14th January 2023

KEY SKILLS Well-versed in **Environmental Impact Assessment (EIA)**, **Proposal for Mitigation Measures (PMM)** studies and Environmental Monitoring according to the guidelines set by EPD Sabah and DOE Malaysia

Field data collection - water sampling, sediment sampling, benthic invertebrate survey, in-situ water physico-chemical measurement, assessment of coral reefs/seagrass beds/mangroves

Environmental Data Analysis - data sorting and quality control; plots and charts production, application of statistical analyses and mathematical models, calculation of ecological indices

Research - scientific literature review, experimental design and technical report writing

OTHER RELEVANT SKILLS Certified **PADI Advanced Open Water Scuba Diver**

Experienced user of **ArcGIS** in creating maps and analyzing mapped information

Skilled user of graphic editing tools such as **Adobe Illustrator** and **Inkscape**

Competent in using **Microsoft Office** suite - Word, Excel, Powerpoint

ENVIRONMENT RELATED PROJECT REFERENCES

Project Title	Brief Description	Task / Responsibility	Period of Involvement
Marine Ecology Study for Earthwork Activities, Reclamation, and Construction of Proposed Mixed Development on CL.015708531 with 1.821 ha at Sutera Harbour, Kota Kinabalu, Sabah	A study to characterize the existing marine environment in the proposed project area.	<ul style="list-style-type: none"> • Lead the survey team in conducting substrate survey using point intercept transect method. • GIS mapping of the surveyed area. • Report writing. • Client liaison. 	July 2020 – November 2020

Marine Ecology Study for Proposed Subdivision of CL.025370629 and Amalgamation of CL.025313080 & CL.025342563 for Tourism and Recreation Resort Development with Total 42.8 Hectares along Jalan Pengalat Lok Kawi, at Kampung Suoangan, Kinarut, Papar, Sabah	A study to characterize the existing marine environment in the proposed project area.	<ul style="list-style-type: none"> • Lead the survey team in conducting substrate survey using point intercept transect method. • GIS mapping of the surveyed area. • Report writing. • Client liaison. 	November 2019 – January 2020
Marine Ecology Study for “Pembinaan Pangkalan Maritim Agensi Penguatkuasaan Maritim Malaysia (APMM), Semporna, Sabah”	A study to characterize the existing marine environment in the proposed project area.	<ul style="list-style-type: none"> • Lead the survey team in doing the benthic substrate survey using underwater camera. • GIS mapping of the surveyed area. • Report writing. • Client liaison. 	January 2018 - April 2018
Hydraulic Study for the Proposed Earthwork Activities and Upgrading of Jalan Tun Fuad Stephen, Jalan UMS and Jalan Sulaman, Kota Kinabalu, Sabah-Phase II	Assessment of the potential impact of the proposed road expansion on the adjacent flood mitigation pond, mangrove habitat, water and marine sediment quality.	<ul style="list-style-type: none"> • Participate in mangrove assessment survey. • Liaison with government agency. • Report writing. 	January 2018 - April 2018
Hydraulic Study for the Proposed Jetty Development at Banggi Island, Kudat, Sabah	A study to assess the potential hydraulic impacts from the proposed jetty construction.	<ul style="list-style-type: none"> • Assist in the deployment of Acoustic Doppler Current Profiler (ADCP). 	December 2017 - January 2018
Carrying Capacity and Site Assessment Study for the Proposed Salmon Aquaculture in Port Adventure, Stewart Island, Southland, New Zealand	A study to characterize the existing environment in Port Adventure, to determine the environmental impacts that may arise and to estimate a sustainable production biomass per year for the proposed salmonid aquaculture in the bay.	<ul style="list-style-type: none"> • Conduct water quality sampling, sediment sampling, benthic invertebrates sampling & benthic substrate survey. • GIS - benthic habitat mapping. • Water and sediment physico-chemical data analyses. 	February 2017 - May 2018

		<ul style="list-style-type: none"> • Desktop review of the impacts of marine aquaculture on water column and benthic environment. • Report writing. 	
Hydraulic Study for the Proposed Sea Sand Borrow Pit at Bunburry Shoal, Offshore Kota Kinabalu, Sabah	A study to investigate potential hydraulic impacts from sand extraction activity at an offshore sand borrow pit.	<ul style="list-style-type: none"> • Conduct sediment sampling and preliminary benthic substrate survey using underwater camera. 	February 2017
Seasonal Variation in Macquarie Harbour Pelagic Oxygen Demand, Tasmania, Australia	A study to quantify spatial and temporal variation in pelagic oxygen demand (POD) in the harbour and to determine factors influencing POD in the water column.	<ul style="list-style-type: none"> • Collect water samples and in-situ measurements. • Conduct experiment to quantify POD. • Create conceptual model. 	February 2017
Water Quality and Benthic Compliance Monitoring in Big Glory Bay, Stewart Island, Southland, New Zealand	An EMP to monitor the water quality and benthic impacts from finfish and shellfish aquaculture activities in the bay.	<ul style="list-style-type: none"> • Conduct sediment core sampling, benthic substrate survey using underwater camera and benthic invertebrates sampling. • Report writing. 	February 2017 - May 2017
Potential Causes of <i>Beggiatoa</i> Coverage in and Around Franklin Lease and World Heritage Area in Macquarie Harbour, Tasmania, Australia	A study to investigate the possible causes that contributes to the formation of <i>Beggiatoa</i> mats on the seabed in the World Heritage Area.	<ul style="list-style-type: none"> • Desktop review on <i>Beggiatoa</i> species. • Analysis of physico-chemical water quality, weather data and other environmental forcing in the harbour. • Create conceptual model. • Report writing. 	November 2016 - December 2016

Spring and Summer Risk Analysis on Fish Health in Macquarie Harbour, Tasmania, Australia	A study to predict the water column dissolved oxygen and temperature conditions and their potential impacts on fish health during spring and summer seasons.	<ul style="list-style-type: none"> • Analysis of climate and weather data. • Conduct statistical analysis on historical data of water temperature and dissolved oxygen. • Provide forecasts of harbour conditions based on statistical analyses. • Report writing. 	June 2017 - March 2018, October 2016 - March 2017
Hydraulic Study for the Proposed Sapangar Bay Conventional Cargo Terminal (SBCCT) and Sapangar Bay Oil Terminal (SBOT) on Land Parcels 01125674 and 01125194	A study to assess the potential hydraulic impacts from the proposed reclamation and dredging activities for port expansion.	<ul style="list-style-type: none"> • Participate in bathymetric and shoreline morphology surveys. • Report writing. 	October 2016 - February 2018
Hydraulic Study for the Proposed Earthwork Activities and Mixed Development on TL. 017561867 and CL. 015707570, Kota Kinabalu, Sabah	A study to assess the potential hydraulic impacts of the proposed reclamation activity for mixed development at Kota Kinabalu waterfront.	<ul style="list-style-type: none"> • Participate in bathymetric and shoreline morphology surveys. • Report writing. 	July 2016 - February 2017
Ammonium Emission Modelling for a Proposed Salmon Farm Lease in Storm Bay, Tasmania, Australia	A study to model the dispersion of soluble nutrient (ammonium) derived from the proposed salmon farm lease and to assess the potential impacts of soluble farm waste on the possibility of eutrophication in the water column.	<ul style="list-style-type: none"> • GIS - incorporating modelling results in GIS layout. • Desktop review on nutrient diffusion and dispersion. 	June 2016 - September 2016
Monthly Water Quality Monitoring in Macquarie Harbour, Tasmania, Australia	An EMP to monitor the impacts of salmon aquaculture on water quality in Macquarie Harbour.	<ul style="list-style-type: none"> • Collect water samples for laboratory analyses. • Measure in-situ water column physico-chemical properties. 	February 2016 - April 2018

Marine Ecology and Mangrove Study for the EIA for the Proposed New Extended Area for Existing Shrimp Farm Boundary, Pitas, Sabah	A baseline survey to assess the existing marine and mangrove environment within and surrounding the proposed project site.	<ul style="list-style-type: none"> • Conduct marine benthic invertebrate sampling, fish and mangrove surveys. • GIS - delineation of mangrove coverage in and surrounding project area. • Report writing. 	December 2015 - January 2016
Hydraulic Modelling for a Proposed Aquaculture Hatchery Outfall in Okiwi Bay, Marlborough, New Zealand	A study to model the diffusion and dispersion of nutrient discharged from an aquaculture facilities through an offshore outfall.	<ul style="list-style-type: none"> • Historical weather data analysis. • Desktop review on soluble nutrient transport and dispersion. 	November 2015 – August 2016
Desktop Review on the Impacts of Biofouling on Aquaculture Structures, Net Cleaning Methods and Biofouling Organisms on Cultured Species	A review on the possible effects of fish cages in-situ net cleaning operation on the health of mussel in adjacent farms in Port Esperance, Tasmania, Australia.	<ul style="list-style-type: none"> • Desktop review on the negative effects of in-situ net cleaning operation and impacts of biofouling organisms on other farmed organisms. 	May 2015 – August 2015
Macquarie Harbour Dissolved Oxygen Working Group (MHDOWG) Report – Nutrients	A study to assess the effects of salmonid aquaculture on the ambient water columns in the harbour, particularly on the nutrient and dissolved oxygen levels.	<ul style="list-style-type: none"> • Create conceptual model. • Desktop review on benthic nutrient fluxes and oceanic recharge mechanism. 	May 2015 – October 2015

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROJECT REFERENCES

Project Title	Task / Responsibility	Approving Authority	Date of Submission and Approval
Projek Cadangan Pembinaan Jeti dan Jambatan Konkrit Baru di Balembang, Pulau Bum-Bum, Semporna, Sabah	<ul style="list-style-type: none"> • Project coordinator. • Conduct site visit, field data collection and social interviews. • Report writing. • Liaise with client and government agencies. 	Environment Protection Department (EPD) Sabah	Submission: 19/08/2013 Approval: 19/05/2014
Projek Naik Taraf Jalan Bokara-Batu Sapi Fasa 2, Sandakan, Sabah			Submission: 08/01/2014 Approval: 24/02/2015
Cadangan Membina dan Menyiapkan Sebuah Sekolah Menengah Kebangsaan Kanibongan yang Mengandungi 24 Bilik Darjah dan Kemudahan Berkaitan di Kanibongan, Pitas, Sabah			Submission: 15/03/2013 Approval: 24/12/2013
Proposed Housing Development on CL.015019940 (10.38 acres) at Bukit Padang 1, Luyang, Penampang District, Sabah			Submission: 05/08/2013 Approval: 06/08/2014
Projek Naik Taraf Jalan Bungallo-Longkou Lama-Timbok, Tuaran, Sabah			Submission: 17/12/2012 Approval: 10/12/2013
Earthwork Activities for the Proposed 2-Storey Shop/Office and 2-Storey Supermarket on CL.165319737 & CL.165319728 at Tenom Town, Sabah			Submission: 27/12/2012 Approval: Conditional Approval was granted in 2013

**PARTICIPATION
IN PROFESSIONAL
COURSE /
SEMINAR/
TRAINING** **Ecological Assessment and Management Training** |
Environmental Management and Research Association of
Malaysia (ENSEARCH) and Universiti Malaysia Sabah (UMS)
28th – 29th March 2016

**Essential Ecological Approach to Fisheries Management
(EEAFM) Course** | Department of Fisheries Sabah
26th – 30th October 2014

**Seminar Pengurusan Alam Sekitar: Isu & Cabaran Pengurusan
Pulau-Pulau di Sabah** | Jabatan Perlindungan Alam Sekitar (JPAS)
Sabah
18th December 2013

Road Day Proceedings | Public Works Department (JKR) Sabah
22nd – 23rd October 2013

Induction Course for EIA Consultants | Department of
Environment (DOE) Malaysia
21st – 22nd May 2013

Training: Social Impact Assessment | Environmental
Management and Research Association of Malaysia
(ENSEARCH)
10th – 11th April 2013

**PEER REVIEWED
PUBLICATION** Maxey, J. D., Hartstein, N. D., **Penjinus, D.**, & Kerroux, A. (2017).
Simple quality control technique to identify dissolved oxygen
diffusion issues with biochemical oxygen demand bottle
incubations. *Borneo Journal of Marine Science and Aquaculture*
(*BJoMSA*), 1, 75 - 79.

**PRESENTATIONS
AT PROFESSIONAL
MEETINGS &
CONFERENCES** **Penjinus, D.**, Hartstein, N. D., Kerroux, A. & Maxey, J. D.
Climatic Drivers Influencing Benthic and Water Column
Conditions in Macquarie Harbour, Tasmania, Australia. Poster
presentation. International Conference on Marine Science and
Aquaculture 2017, Kota Kinabalu, Sabah.

Maxey, J. D., Hartstein, N. D., Kerroux, A. & **Penjinus, D.** Simple
quality control technique to identify dissolved oxygen diffusion
issues with biochemical oxygen demand bottle incubations. Oral
and poster presentations. International Conference on Marine
Science and Aquaculture 2017, Kota Kinabalu, Sabah.

REFERENCES References available upon request



CURRICULUM VITAE – Tai Tsui Man

Name : Tai Tsui Man

Qualification : Environmental Science

Key Qualification : Experience in handling environmental consultancy services including environmental impact and site assessment studies.

Membership : Registered with Environment Protection Department, Sabah (Reg. No. S0209)

Nationality : Malaysian

Race : Chinese

Date of Birth : 7th September 1986

Place of Birth : Sandakan, Sabah

Education : B. Sc. (Hons) Environmental Science, Universiti Kebangsaan Sabah, 2010

Major Professional Course Involved

22nd January 2018 Seminar On Environmental Mainstreaming in EIA 2018 oleh Kelab dan Sukan Alam Sekitar (KESAS)

9th – 10th November 2016 Seminar on the New Dimension of EIA in Malaysia 2016 o Kebajikan dan Sukan Jabatan Alam Sekitar (KESAS)

21st June 2011 Khusus Penghantaran Laporan Bulanan Efluen Secara Online

Major Consultancy Projects Involved:

1. EIA for Proposed 21 Units Double-Storey Shop-office Development on PT 20-04080199 at Jalan Pasar, Beluran, Sandakan.
2. EIA for Projek Menaik Taraf Jalan Sook-Tulid Sinua, Keningau, Sabah (Fasa 1).
3. EIA for Proposed Sand Mining on P.T. 2010110223 at Sg. Segama, District of Lahad Datu, Sabah.
4. EIA for Cadangan Membina Jalan Jempangah - Montenior, Beaufort, Sabah.
5. EIA for Cadangan Membina Jalan Pekebun Kecil - Lumou Minisukang, Telupid, Sandakan, Sabah.
6. EIA for Aktiviti Kerja Tanah dan Cadangan Pembangunan Projek bagi SMK Tandek II (36 BD) di Lot NT 223124927, NT 223142729, FR 739, Kota Marudu, Sabah untuk Kementerian Pelajaran Malaysia.



7. EIA for Proposed Residential Development consisting of 7 Levels Parking Podium, a Recreational Podium and 3 Tower Blocks of 26-Storey Residential Tower on CL. 015058518 at Jalan Kolam, Kota Kinabalu [with Subsidiary (Strata) Titles to be Applied for.
8. EIA for Earthwork Activities for Proposed Amalgamation and Subdivision of 6 units of Detached Warehouse cum 3-Storey Office, 34 Units of Semi-detached Warehouse cum 3-Storey Office and 4 Blocks of Light Industrial Showroom cum Office on CL.015583463, CL.015583472 and CL.015583481 at Mile 7.5, Jalan Tuaran, District of Kota Kinabalu.
9. EIA for Cadangan Penyatuan, Pembahagian, Penukaran Syarat Guna Tanah dan Membina Sebuah Tokong Cina Nam Tien Kong (Jiu Wang Da Di) Di Atas Tanah 013110971 (lot 6) & 013110999 (Lot 8) Di Kg. Katahan, Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
10. EIA for Proposed Quarry Operation on CL 225311759, NT 223121284 and NT 223110978, Kg. Manggaris, Langkon, Kota Marudu, Sabah.
11. EIA for Proposed Earthwork Activities and Road Construction in 3 Phases within Sipitang Oil and Gas Industrial Park (SOGIP).
12. EIA for Aktiviti Kerja Tanah, Pembinaan dan Naiktaraf Jalan Bokara Batu Sapi Fasa 2, Sandakan, Sabah.
13. EIA for Proposed Conversion and Subdivision of Lot 2 Single Storey Multi-Purpose Halls with Ancillary Buildings and Lot Future Development on NT.013068981 at Kg. Tombongan at District of Kota Kinabalu.
14. EIA for Aktiviti Kerja Tanah dan Menaiktaraf Jalan Ansip-Dalit-Kahaba, Keningau, Sabah.
15. EIA for Proposed Earthwork Activities for Development of Commercial Complex on CL.215429208 and Part of CL.21549324 (Approx. 9.85 Acres/3.988 Hectares) at Jalan Bundusan, Penampang District, Sabah.
16. EIA for Quarry Activities on CL.125317562 at Sigalong Estate, Kalumpang, Semporna, Sabah.
17. EIA for Proposed Housing Development on part of CL. 105593271, Imam Estate, Jalan Utara, Tawau, Sabah.
18. EIA for Aktiviti Kerja Tanah Dan Pembinaan Bagi Projek Cadangan Perlaksanaan Program Rimbunan Kaseh at Kg. Saga-Saga, Membakut, Sabah.
19. EIA for Perumahan Negara Kg. Lugu Design & Build of Earthworks, Infrastructure and 1000 units of High Density Development including Master Planning at Kg. Lugu National Housing Scheme within 24 months, Negara Brunei Darussalam.
20. EIA for Earthwork Activities for Proposed Moving Soil And Gravel On Premises No. CL 105342498 at Rangu, Tawau District, Sabah.
21. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Topokon-Wangkod-Gontung, Tamparuli, Sabah.
22. EIA for Aktiviti Kerja Tanah dan Pembangunan 900 Unit Rumah Teres 1-Tingkat Bagi Program Perumahan Rakyat (PPR-DIMILIKI) seluas 32.113 hektar di lot NT. 0339377, NT. 033090087, sebahagian daripada NT. 033126993, CL. 035260363, CL. 035260372 dan 2 Lot Tanah Kerajaan di Ulu Perasan, Daerah Kota Belud, Sabah.
23. EIA for Proposed Housing Development On CI 015108264, CI 015178453 And CI



015484018 with 7.69 Hectares at Kg.Mansiang, Menggatal, Kota Kinabalu.

24. EIA for Proposed 21 – Storey Commercial Development (With Subsidiary Strata Title To Be Applied For) On Part Of Cl. 015583963 At Damai Luyang, Kota Kinabalu District, Sabah.
25. EIA for Aktiviti Kerja Tanah dan Menaiktaraf Jalan Ansip-Dalit-Kahaba, Keningau, Sabah.
26. EIA for the Earthwork Activities on RBF 5 and Dumping Sites at IZ 10 and IZ 11, Kota Kinabalu Industrial Park (K.K.I.P).
27. PMM for the Proposed Kuala Penyu Bay Beach Resort on Site FR.3100 & Lot 1 NT.183030686 at Kg. Sabang, District of Kuala Penyu, Sabah.
28. PMM for the Proposed Commercial Development 19-Unit 2 Storey Shop Office On PT. 84190069 at Pekan Sipitang.
29. PMM for the Proposed Linggisian Eco Luxury Resort Development on Lot N.T. 03307490, N.T. 033079686 and N.T. 2296, Pulau Mantanani Besar, District of Kota Belud, Sabah.
30. PMM for the Proposed 4-Units of 4-Storey Office/Clinic, Pekan Sipitang.
31. PMM for the Proposed Development Of Esplanade And Jetty At Bengkoka, Pitas.
32. PMM for the Proposed Sandakan Port Wharf Extension.
33. Reassessment Report for the Proposed Industrial Development on CL 075472338 at Jalan Batu Sapi, Sandakan, Sabah.
34. Reassessment Report for the Earthwork Activity At Phase 5a Of Proposed Mixed Commercial Cum Residential Development And Transport Hub On Lot 01200688 (Pt 20-08010086 & Pt 20-08010088), 01200944 And Part Of Lot 02100705 (Pt 20- 08010082, 20-08010083, 20-08010084, 20-08010085, 20-08010087 & 20-08010089) At Tanjung Aru, Kota Kinabalu, Sabah.
35. EMP for Menyiapkan Kerja-Kerja Terbengkalai Projek Menaiktaraf Jalan dari Pohon Batu (Simpang Tamu) ke Pancur Hitam, Wilayah Persekutuan Labuan (Fasa 1: CH-75 hingga CH3500).
36. EMP for Perumahan Negara Kg. Lugu Design & Build of Earthworks, Infrastructure and 1000 units of High Density Development including Master Planning at Kg. Lugu National Housing Scheme within 24 months, Negara Brunei Darussalam.
37. EMP for Pembinaan Projek Persimpangan Bertingkat & Lorong Ketiga Di Bandaraya KK, Sabah (Persimpangan (i) Jalan Lintas/Jalan Kolam (ii) Jalan Lintas/Jalan Tuaran Batu 5 ½).
38. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Mesej ke Timpangoh Laut, Penampang Sabah.
39. EIA for Proposed Subdivision, Residential & Commercial Development Consist of 13-Storey Affordable Apartment (2-Tower, Subsidiary Title Will be Applied For), 2 & 3 Storey Shoplots, 1-Storey Market Square, 3-Storey Mall cum Supermaket, 2-Storey College, Petrol Station Lot and Drive-Thru Lot on CL.025059616 with Total 18.26 Hectares at Papar, Sabah.
40. EIA for Earthwork Activites and Development of Proposed Pr1m Housing 1,200 Units



Apartment (With subsidiary title to be applied for) on CL.015087966 with 9.11 Hectares at Jalan Sepanggar, Kg. Ratau, Menggatal, Sabah.

41. EIA for Aktiviti Kerja Tanah dan Pembinaan Jalan Montenior – Halogilat / Beaufort (Fasa II), Sabah.
42. EIA for Cadangan Naiktaraf Jalan Papar Dari Bulatan Papar Ke Bulatan Benoni, Sabah (JalanPapar Spur).
43. EIA for Proposed Quarry Operation at Block BW1/13 (0.65 Ha) at Gunung Rara Forest Reserve, Tawau.
44. EIA for Proposed Earthwork Activities at Salambigar, Negara Brunei Darussalam.
45. EIA for Aktiviti Penimbusan Laut Di Teluk Sepanggar Di CL.015580891 (Fasa II), Kota Kinabalu, Sabah.
46. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Pinangah – Masaum Sepanjang 11 KM, Tongod, Sabah.
47. EIA for Membina jalan Lahad Datu Bypass, Lahad Datu, Sabah.
48. EIA for Proposed River Stone Extraction on PT. 2014190248 (0.78 Ha) at Sg. Mengalong and Processing Site on NT.193020530 and Part of NT. 193016769 (Total 0.607 Ha) at Kg. Melamam, Sipitang, Sabah.
49. EIA for Proposed Residential Development of 29-Storey Condominium 87 Units with 0.27 Hectares on TL.017528719, off Jalan Signal Hill Park, Kota Kinabalu, Sabah.
50. EIA for Earthwork Activities and Proposed Development on FR. 014008934 at Kg. Kibagu, Sepanggar, Kota Kinabalu, Sabah.
51. EIA for Earthwork Activities and Development for The Proposed Residential for Shop, Duplex Housing and 1 Block Condominium [With Subsidiary (Strata) title to be applied for] on CL. 015282345 and CL. 015093008 at Kg. Sukang, Jalan Sukang Mabpai, Kota Kinabalu, Sabah.
52. EIA for Proposed Earthwork Activities and Residential Development on Part of CL. 015055526 (9.767 Hectares) at Kg. Darau, Jalan Tuaran, Kota Kinabalu, Sabah.
53. EIA for Proposed Earthwork Activities and Mixed Development on TL. 017561867 (2.428 HA) and CL. 015707570 (2.428 HA), Kota Kinabalu, Sabah.
54. EIA for Proposed Earthwork Activities and Amalgation, Conversion, Subdivision and Development of CL. 115314488 and CL. 115314497 into a Residential Development with 12.78 Hectares off Mile 8, Lahad Datu-Kunak Highway, District of Lahad Datu, Sabah.
55. EIA for River Sand Extraction at PT. 2016100284 (0.81 Ha) Sungai Brantian, Tawau, Sabah.
56. EIA for Aktiviti Kerja Tanah Untuk Cadangan Membina dan Menyiapkan Kolej Vokasional Berasrama Penuh Serta Lain-Lain Kemudahan Berkaitan di Kawasan Hub Pendidikan Sandakan, Daerah Sandakan, Negeri Sabah.
57. EIA for Earthwork Activities and Proposed Mixed Resort Development (strata title to be applied) on FR. 054032923, NT. 053081100, NT. 053081119, FR. 054032941, NT. 053081888 and NT. 053086954 with 23.485 Hectares at Kg. Marimbau, District of Kudat, Sabah.
58. EIA for Aktiviti Kerja Tanah untuk Projek Pembinaan Talian Penghantaran 132KV dari Kota Belud Ke Ranau, Sabah di Sebahagian Tanah Kerajaan dan TL. 067500181 di bawah Program Bekalan Elektrik Luar Bandar (BELB) Secara Rundingan Terus Reka dan Bina.



59. EIA for Earthwork Activities and Proposed Conversion & Sub-Division of Mixed Commercial Development Comprises Of i) 1 Block of 15-Storey Commercial Building, Sova, Multi-Storey Basement Carpark, ii) 1 Block of 21-Storey Specialist Centre, Office, Multi-Storey & Basement Carpark, iii) 1 Block of Single Storey Commercial Building with 2.28 Hectares on CLS. 075131387, 075133909 and 075131378 at Mile 1 ½, Jalan Utara, Sandakan, Sabah.
60. EIA for Logging operation at Kg. Mindohuan (605.90 HA), Ranau, Sabah.
61. EIA for Logging Operation (840 HA) at Forest Reserve Kuala Tomani Class II, Sabah.
62. EIA for Aktiviti Kerja Tanah dan Menaiktaraf Jalan Sepanjang 27.118 KM bagi Jalan Lok Kawi-Pengalat-Papar, Sabah.
63. EIA for Extraction of River Stone and Sand Deposit at Sg. Pangapuyan on TOL (JTU(G):800/2223.4.31) and Processing Site at NT. 224006704 and NT. 224006713, Kota Marudu, Sabah.
64. EIA for Earthwork Activities and Upgrading of 6.27 Km Jalan Karangan, Beaufort, Sabah.
65. EIA for Earthwork Activities at Proposed Borrow Pit at CL. 025152032, Jalan Kelatuan, Papar, Sabah.
66. EIA for Loggong Operation at Kg. Mindohuan (605.90 Ha), Ranau, Sabah.
67. EIA for Earthwork Activities and Proposed Conversion, Subdivision and Development of 72 Units of 3-Storey Shop Office (With Subsidiary Titles To Be Applied For) at Phase 1, 95 Units Of 2-Storey Terrace House & 32 Units of 2-Storey Semi Detached House at Phase 2 & 3 On CL. 1655003823 and Dumping Site At Nt. 163000566, District of Tenom, Sabah.
68. EIA for Aktiviti Kerja Tanah Dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah.
69. EIA for Proposed Earthwork Activities and Conversion, (From NT to CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Homestay on NT. 013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu.
70. EIA for Proposed Replanting of Oil Palm Plantation With 1.395.10 Hectares At Ladang Hassan, Sandakan, Sabah.
71. EIA for Proposed Earthwork Activities for Development of Commercial Complex on CL. 215429208 and Part of CL. 215429324 (3.988 Ha) at Jalan Bundusan, Penampang District Sabah.
72. EIA for Earthwork Activities And Construction Of Inanam Laut Reservoir (Telibong II Phase 1 Water Treatment Plant Upgrading Works) at Inanam, Sabah.
73. EIA for Earthwork Activities And Resort Development Including Road Diversion On CL. 185313740, CL. 185313731, CL. 185313713, CL. 185313786, CL. 185313768 And Cl. 185313777 At Kampung Bayong, District Of Kuala Penyu, Sabah.
74. EIA for Replanting Activities For Sook Estate (5468 Ha) Located At Jalan Tulid, Sook Keningau, Sabah.
75. EIA for Proposed Development of Industrial Buildings & Facilities on LA. 2011010280 (CL. 015702075) at Sepanggar, Kota Kinabalu, Sabah.
76. EIA for Earthwork Activities And Proposed Housing Development On Part Of CL. 045115919 (29.59 Hectares), Km 4, Jalan Tuaran – Kota Belud, Sabah Consisting of 833 Units of Double Storey Terrace Affordable Homes Under My Home Scheme, 800 Units Of “ Projek Perumahan Rakyat” Under “Build & Shell” Scheme and 7 Units of



- Double Storey Shops (Strata Titles To Be Applied For Lot 2).
77. EIA for Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ke Mesej Mangalias, Tenom, Sabah.
 78. EIA for Replanting Activities for Dusun Estate (835 Hectares) Located at Sandakan, Sabah.
 79. EIA for Earthwork Activities For Proposed Conversion, Amalgamation, Subdivision and Development of NT. 043238878, NT. 04317179 & NT. 043172818 Into A residential Development At Kg. Serusup, Distict Of Tuaran.
 80. EIA for Eathwork Activities For Proposed Dumping Site (18.1 Hectare) At CL. 015606283, Kingfisher, Kota Kinabalu, Sabah.
 81. EIA for Porposed Clearing Activities of FR.154000674 (1,200 Ha) at Kg.Tatalaan 1 Joint Venture Between The Beneficiaries of Communal Grant of Kg.Tatalaan 1 With Sentotimber Sdn Bhd, Pensiangan, Sabah.
 82. EIA for Earthwork Activities And Proposed Amalgamation And Subdivision Of New Water Tank And PPU on CL.025339780 (Individual Title), 2 Blocks of Condominium on CL.025367999, 3 Blocks of Apartment on CL.025368003 and Mixed-Used Development on CL.025368085 & CL.025368076 (Total 15.65 Hectares) at Lok Kawi, District of Papar, Sabah (With Subsidiary (Strata) To Be Applied For).
 83. EIA for Earthwork Activities for Proposed Conversion, Subdivision and Development of CL. 135314439 into a Housing Development at Kampung Ulu Liawan, District of Keningau.
 84. EIA for Aktiviti Kerja Tanah dan Pembinaan Kompleks Sukan Tongod (4.78 Ha) Serta Pelupusan Tanah Berlebihan (1.89 Ha) di Sebahagian Tanah Diwartakan Untuk Tapak Mini Kompleks, Tongod Sabah.
 85. EIA for Replanting Activities at Litang Estate (776 Hectares), Lahad Datu, Sabah.
 86. EIA for Aktiviti Kerja Tanah dan Membina Jalan Tawayari, Lahad Datu, Sabah.
 87. EIA for Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar dan 1 Blok Dewan Makan, Makmal dan Bengkel Kh/Pav Serta Pagar di Sk Pekan Pensiangan Untuk Perluasan Sekolah K9 di Daerah Nabawan, Negeri Sabah.
 88. EIA for Earthwork Activities for The Proposed Development of KK One For Redevelopment/Rehabilitation of Existing Approved Building Structure Oo Komplex Star City (Phase IIC) On Part of TL.017546940 & TL.017544713 at Kampung Air, Kota Kinabalu, Sabah.
 89. EIA for Aktiviti Kerja Tanah dan Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) di Sebahagian CL.015694381, Kota Kinabalu, Sabah.
 90. PMM for Proposed Commercial Development 19-Unit 2 Storey Shop Office On PT. 84190069 at Pekan Sipitang.
 91. PMM for Development of Resort Consisting of: Phase 1: 10-Storey Hotel Suit (150 rooms), Phase 2: 11-Storey Hotel (250 rooms), Phase 3: Single Storey Resort Villa (8 units), 3-Storey Resort Villa (6 units) and Phase 4: Grand Ball Room on N.T. 183314669 (Lot 1), N.T. 183314678, and N.T. 183319557 at Kampung Bayong, District of Kuala Penyu, Sabah.
 92. PMM for Proposed Logging Operation with 150.3 Hectares on Part of FR. 124014946 at Semporna, Sabah.
 93. PMM for Logging Operation at TOL 08901275 (PT. 86082109) With 161.6 Hectares



- at Ulu Lingkabau Sugut, Beluran, Sabah.
94. PMM for Kerja – Kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N.444-69 Seluas 418.65 Hektar, Nabawan, Sabah.
 95. PMM for Proposed 2-Storey Seaside Resort on NT.10207 and NT.023225961 at Kg. Kinarut Laut, District of Papar, Sabah.
 96. PMM for Proposed Resort and Diving Academy (Phase 2) At Mamutik Island, Kota Kinabalu, Sabah.
 97. PMM for Replanting of Oil Palm Plantation (464.32 Ha) at Koyah Estate, Kinabatangan, Sabah.
 98. PMM for Development of Mixed Agricultural Plantation at CL.135325736 (370.03 Ha), Keningau, Sabah.
 99. PMM for Proposed Oil Palm Plantation (376.68 Ha) at District of Tongod, Sabah.
 100. RR for Membina Jalan Lahad Datu Bypass, Lahad Datu, Sabah.
 101. RR for Aktiviti Kerja Tanah untuk Tujuan Menaiktaraf Sistem Bekalan Air di Lahad Datu.
 102. RR for Earthwork Activities For Construction Of Menggatal Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works), Sabah.
 103. RR for Earthwork Activities For Construction Of Telibong Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works), Sabah.
 104. RR for Earthwork Activities For Construction Of Telipok Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works), Sabah.
 105. RR for Proposed Sand Mining on TOL.08902801 at Sg. Klagan, Beluran, Sabah.
 106. EMP for Pelaksanaan Projek Lebuh raya Pan Borneo Sabah-Menaiktaraf Jalan Dari Sindumin Ke Kg. Melalia.
 107. EMP for Pembangunan Lembangan Sungai Bersepadu Sg. Moyog, Sabah (Pakej 3) - Membina & Menaiktaraf Sungai Putatan dan Kerja-Kerja Berkaitan.
 108. EMP for Menaiktaraf Jalan dari Donggongan ke Simpang Jalan Papar Spur, Sabah (Pakej 3B).
 109. EMP for Facilities to Sabah Ports Sdn. Bhd.
 110. EMP for Pembangunan Lembangan Sungai Bersepadu Sg. Moyog, Sabah (Pakej 1) - Membina & Menaiktaraf Sungai Parit 18A, Penambahbaikan Parit A dan Kerja-Kerja Berkaitan di Sg. Kibabaig.
 111. EMP for Projek Menaiktaraf Tapak Pelupusan Sisa Pepejal di Bukit Gemok, Tawau, Sabah.
 112. EMP for Pembinaan Jalan Pesisir Pantai dari Membedai ke Tanjung Aru, WP. Labuan.
 113. EMP for Project Cadangan Membina Satu Blok Bangunan Pentadbiran, Dewan Serbaguna Dan Auditorium Di Institut Pendidikan Guru Kampus Gaya (Fasa 2) Kota Kinabalu, Sabah.
 114. EMP for Rancangan Tebatan Banjir(Rtb) Sungai Tebongan(Kampung Teguli) Putatan, Sabah. (Tawaran Semula).
 115. EMP for Rancangan Tebatan Banjir Sungai Pancuran, Lembangan Sungai Sepagaya, Lahad Datu, Sabah.
 116. EIA for Proposed Shop/Office & Jetty Development at Part of Land on PT. 90082796 at Jalan Pasar Beluran.
 117. EIA for Proposed Earthwork Activities and Development of 560 Units on 1 Block of 8-Storey Carpark and Facilities Podium with Two (2) Towers of 32-Storey



- Condominium on CL. 15417048 at Donggongon Town in the District of Penampang, Kota Kinabalu, Sabah (with subsidiary strata title to be applied for).
118. EIA for Earthwork Activities at Ladang Sri Harapan Palm Oil Mill on Part of CL. 085337515 of 60 hectares, Telupid, Sabah.
119. EIA for Earthwork Activities For The Proposed Chinese Cemetery On 01200841 at Jalan Menggatal, District of Kota Kinabalu (Menggatal Zhong Hua Memorial Park) – 333 V-hua.
120. EIA for Proposed Sand Mining on PT.20-04020947 at Sg. Papar, Kg. Rampazan and Processing Site at Kg. Tomui, Papar, Sabah.

CURRICULUM VITAE- Herwan Wahit

Name : Herwan Wahit

Qualification : Occupational and Safety Management; Food Science and Nutrition

Key Qualification : Experience in handling environmental consultancy services including auditing and monitoring (Air, Noise, and Water Quality)

Membership : Registered with Environment Protection Department, Sabah (Reg. No. S0218)

Nationality : Malaysian

Race : Bumiputera

Date of Birth : 06th May 1976

Place of Birth : Kota Kinabalu, Sabah

Education : B. Sc. (Occupational and Safety Management)
Open University Malaysia, 2017

: B. Sc. (Food Science)
National of University Malaysia, 2000

MAJOR CONSULTANCY PROJECTS INVOLVED

A. Environment Monitoring and Audit Compliance Work

1. Proposed Agro-Forestry Development at Lot 3, Bonggaya Forest Reserve, Beluran District, Sabah.
2. Proposed Oil Palm Plantation (OPP) on Lot 2 (10,250 Hectares), Labuk and Sugut, Beluran District, Sabah.
3. Proposed Oil Palm Plantation (OPP) Development at Benta Wawasan I by Serijaya Industri Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserves, Tawau District, Sabah".
4. The Proposed Replanting of 390 Hectares Oil Palm Plantation at Merotai Estate, Tawau, Sabah by Borneo Samudera Sdn. Bhd.
5. The Proposed Replanting of Oil Palm Plantation At Pegagau Estate, Semporna, Sabah.



6. The Proposed Replanting of 2, 238, 59 Hectares Oil Palm Plantation at Sg. Balung Estate, Tawau, Sabah.
7. The Proposed Replanting of Oil Palm Plantation at Sg. Kawa Estate, Tawau, Sabah.”
8. Replanting Of Oil Palm Plantation At Gugusan Sahabat (Dent peninsular) Lahad Datu For Felda Wilayah Sahabat, Sabah.
9. The Proposed Replanting of Oil Palm Plantation at Gugusan Umas (Brantian) Tawau for Felda Wilayah Sahabat, Sabah.
10. The Project Proponent for the Development of Oil Palm Plantation within Part of Block YT2/04 (5,000 Ha Approximately) at Kalabakan, Sabah.
11. Proposed Oil Palm Plantation Development at Benta Wawasan 1 by Serijaya Industri Sdn Bhd, Yayasan Sabah Forest Management Area, Kalabakan and Gunung Rara Forest Reserve, Tawau, Sabah”.
12. The Preparation of Lahad Datu Sewerage Scheme (Phase 2), Sabah.
13. Cadangan Pembinaan Pejabat Daerah Agensi Penguatkuasa Maritim Malaysia di Sandakan, Sabah.
14. Proposed Sand Mining On P.T. 200911083 At Sg. Segama, District of Lahad Datu Sabah.
15. Cadangan Pembinaan Jalan Segama Northern Bypass (POIC) Lahad Datu, Sabah.
16. Proposed Sand Mining on Lot P.T. 20-10080715 At Sg. Klangan, Beluran, Sabah.
17. Development of Forest Plantation at Jambongan Forest Reserve, Pulau Jambongan, Sabah.
18. The Proposed Jalan Libaran Bypass for The Package 4 in Sandakan, Sabah.
19. Projek Naik Taraf Jalan Donggongan ke Simpang Jalan Papar Spur (Pakej 1- Fasa 2: Km 6.85 – Km 13.7) di Penampang, Sabah, Malaysia.
20. Projek Naik Taraf Jalan Donggongan Ke Simpang Jalan Papar Spur (Pakej 1- Fasa 1: Km 0.375 – Km 6.85) di Penampang, Sabah, Malaysia.
21. The Proposed New Nature Township and Tourism Development at Bukit Nenas, Sandakan.
22. Projek Pembinaan Jeti dan Jambatan Konkrit Baru di Kg. Balimbang, Pulau Bum-Bum, Semporna, Sabah.
23. Projek Sistem Bekalan Air Graviti Mukim Keranaan, Ranau, Negeri Sabah.
24. Reclamation, Dredging, Wharf Construction and Associated Works for The Proposed Container Terminal at Phase 3B, POIC Lahad Datu, Sabah, Malaysia.
25. The Proposed 21 Units Double Store Shop Office Development on PT 20-04080199 at Jalan Beluran, Sandakan.
26. Proposed River Sand Mining on Lot NT 13670 at Sg Damit, Kg. Kosusu, Tuaran, Sabah.
27. Proposed Quarry Operation on PL 26108, CL 105336098, CL 105336105, CL 105335877, PL 10626110, CL 105312570, PL 106290626, PL 15842 and CL 105247541 at Mile 9, Apas Road, Tawau, Sabah.



28. The Proposed Quarry Operation on CL 235311510, Kampung Salimpodon Darat, Pitas, Kudat Division, Sabah.
29. The Existing Quarry Operation on PL 106291605, PL 106177164, CL 105169015 and PL 106291178 at Mile 5, Jalan Sin On, Tawau, Sabah.
30. The Proposed Quarry Operation and Related Activities at Lots CL 125312923, CL 125312932, CL 125313448, CL 125313457 and CL 125313466, Semporna, Sabah.
31. The Proposed GML Quarry of Limestone and Related Activities at Km 63, Tawau/ Lahad Datu Highway, Tawau District, Sabah.
32. The Proposed Housing Development on CL 015267633, CL 015028672, CL 015028663 and CL 01502881 at Kota Kinabalu-Tuaran by-Pass, Kota Kinabalu.
33. The Proposed SUDC Housing Development by Sabah Urban Development Corporation Sdn Bhd on Lot CL 015551087, Kingfisher Park, Kota Kinabalu, Sabah.
34. Cadangan Perlaksanaan Projek Pembangunan Rumah Kos Sederhana Rendah dan Kedai di atas Lot NT 7241 dan NT 7248 di Jalan Minintod, Penampang, Sabah.
35. The Proposed Residantial Development on CL 015492458 (Remr. Of 015092207) and NT 013049806 at Kg. Nunton, Inanam, Kota Kinabalu, Sabah.
36. The Proposed Amalgamation and Subdivision for 552 Units Condominium (Alam Damai) at Luyang, Kota Kinabalu, Sabah.
37. The Proposed Persatuan Taoism San-Ching Development on CL. 015058474 and part of CL. 015058465 at Jalan Kiansom, Inanam, Kota Kinabalu, Sabah.
38. The Proposed Tamparuli town Sewerage Scheme at Tuaran District, Sabah (Design & Build).
39. Proposed Hotel, Services Apartment & Club House Development (With Subsidiary & Strata Title To be Applied For) on TL.017538778, Jalan Saman, Kota Kinabalu, Sabah.
40. Proposed Sand Mining On P.T. 200911083 At Sg. Segama, District of Lahad Datu Sabah.
41. Cadangan Mereka bentuk, Membina & Menyiapkan 696 unit Rumah Pangsa 11 Tingkat & Kerja-kerja yang Berkaitan bagi Program Perumahan Rakyat (PPR DISEWA) di atas Tanah Seluas 17.6 Ekar, Lot CL.215401255 (PL 3213) & Lot NT.213134233, Kg. Ketiau, Putatan, Sabah.
42. Cadangan Pembinaan Jalan Segama Northern Bypass (POIC) Lahad Datu, Sabah.
43. Projek Sistem Bekalan Air Graviti Mukim Keranaan, Ranau, Negeri Sabah.
44. Projek Pembinaan Jalan Dua Hala Dari Uitm ke Sepanggar Container Terminal (3KM) Kota Kinabalu, Sabah.
45. Cadangan Membina Jalan Pekebun Kecil-Lumou Minisukang, Telupid, Sabah.
46. Proposed 5752 Ha of Logging Oil Plantation at PT 20-10151023, Lumiri, Pensiangan, Sabah.



47. Proposed “Pembangunan Tanah dalam Kawasan Geran Komunal FR154000567 Sapulut 4, Nabawan, Sabah”.
48. Development of Oil Palm Plantation in Communal Grant FR254000041 in kampong Kawayoi – Inarad, District of Tongod.
49. Proposed Sandakan Port Wharf Extension Sandakan, Sabah.

B. Environmental Monitoring Work

1. Environmental Monitoring (Air, noise & water sampling) Work for Cement Industries Sdn Bhd, Sabah (Kota Kinabalu Branch)
2. Environmental Monitoring (Air, noise & water sampling) Work for Cement Industries Sdn Bhd, Sabah (Lahad Datu Branch)
3. Environmental Monitoring (Air, noise & water sampling) Work for Ere Sdn Bhd, Kg. Kodundungan, Penampang Project site.
4. Environmental Monitoring (Air, noise & water sampling) Work for Ere Sdn Bhd, Parking Lot, SMC Luyang Project Site.
5. Environmental Monitoring (Air, noise & water sampling) Work for New Paradigm Logistics Sdn Bhd, Lahad Datu Site.

C. Environmental Impact Assessment

1. Quarry Activities on CL.125317562 at Sigalong Estate, Kalumpang, Semporna, Sabah.
2. Earthwork Activities for the Proposed Moving Soil and Gravel on Premises No. CL. 105342498 Located at Rangu, District of Tawau, Sabah.
3. Proposed Logging Operation with 150.3 Hectares on Part of FR.124014946 at Semporna, Sabah (Scoping Note).
4. Proposed Quarry on LA. 20-14230653 at Kg. Bilangan Darat, Pitas, Sabah (Scoping Note).
5. Earthwork Activities and Upgrading of 6.27 Km Jalan Ulu Karangan, Beaufort, Sabah.
6. Earthwork Activities at Proposed Borrow Pit at CL.025152032, Jalan Kelatuan, Papar, Sabah.
7. Aktiviti Kerja Tanah dan Projek Naiktaraf Jalan dari Kg. Bangkulat Ke Kg. Imbak, Tongod, Sabah
8. Earthwork Activities and Proposed Upgrading of 6.96 Km Jalan Tun Fuad Stephen, Jalan Ums & Jalan Sulaman, Kota Kinabalu, Sabah – Phase II
9. Aktiviti Kerja Tanah dan Projek Menaiktaraf Jalan Gading – gading, Semporna, Sabah
10. Logging Operation at Kg. Mindohuan (605.90 Ha), Ranau, Sabah.



11. Proposed Earthwork Activities and Conversion (From Nt To CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Homestay on Nt013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu
12. Earthwork Activities and Upgrading of Jalan Paitan □ Pantai Boring, Beluran, Sabah
13. Aktiviti Kerja Tanah Dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah
14. Earthwork Activities at Proposed Borrow Pit on Part of CL.175346666 and Dumping Sites on CL.175275706 and CL.175007860 at Kg. Lumat, Beaufort.
15. Proposed Replanting of Oil Palm Plantation with 1,395.10 Hectares at Ladang Hassan, Sandakan, Sabah
16. Proposed Earthwork Activities and Conversion (From Nt To CL), Subdivision and Commercial Tourism Development Consist of 10 Units of Homestay on Nt013068963 at Kg. Tombongon, Menggatal, Kota Kinabalu.
17. Aktiviti Kerja Tanah dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah
18. Earthwork Activities and Proposed Upgrading of Jalan Kolam Including Two Flyovers and Supplementary Roads (Total 8.636 Km), Kota Kinabalu, Sabah
19. Aktiviti Kerja Tanah dan Pembinaan Jalan Sepanjang 1.85 Km dari Jalan Sukau Ke Jalan J.Kg, Sukau, Kinabatangan, Sabah.
20. Earthwork Activities for The Proposed 10 Mwa Solar Photovoltaic Plant Located at CL. 0754887786, Luboh Estate, Sandakan, Sabah
21. Earthwork Activities for Construction of Menggatal Reservoir (Telibong li Phase 2 Water Treatment Plant Upgrading Works), Sabah
22. Earthwork Activities and Development of Proposed Prima Housing 1,200 Units Apartments (with Subsidiary Title to be Applied for) on CL. 015087966 with 9.11 Hectares and Dumping Site at CL. 014004338, CL. 013040312 and CL. 013057255 at Jalan Sepanggar, Kg. Ratau, Menggatal, Sabah
23. Program Pembangunan dan Penanaman Semula Sawit (233 Ha) Tanah Anak Negeri at Bingkor, Keningau, Sabah.
24. Proposed Quarry on Pt.20-14230653 at Kg. Bilangau Darat, Pitas, Sabah
25. Proposed Earthwork Activities for Development of Commercial Complex on CL.215429208 and Part of CL.215429324 (3.988 Ha) at Jalan Bundusan, Penampang District Sabah
26. Earthwork Activities of Ponds Construction at Sook Estate, Located at Jalan Tulid, Sook Keningau, Sabah.
27. Earthwork Activities for Proposed Residential Development on Part of CL.175336080, Jalan Taman Wawasan, District of Beaufort, Sabah.



28. Earthwork Activities And Construction Of Inanam Laut Reservoir (Telibong II Phase 2 Water Treatment Plant Upgrading Works) at Inanam, Sabah
29. Earthwork Activities And Resort Development Including Road Diversion On CL.185313740, CL.185313731, CL.185313713, CL.185313786, CL.185313768 And CL.185313777 at Kampung Bayong, District Of Kuala Penyu, Sabah
30. Proposed Development of Industrial Buidings & Facilities on LA. 2011010280 (CL. 015702075) at Sepanggar, Kota Kinabalu, Sabah
31. Earthwork Activities And Proposed Housing Development On Part Of CL.045115919 (29.59 Hectares), Km 4, Jalan Tuaran – Kota Belud, Sabah Consisting of 833 Units of Double Storey Terrace Affordable Homes Under My Home Scheme, 800 Units Of “Projek Perumahan Rakyat” Under “Build & Sell” Scheme and 17 Units of Double Storey Shops (Strata Titles To Be Applied For Lot 2).
32. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ke Mesej Mangalias, Tenom, Sabah
33. Replanting Activities for Dusun Estate (835 Hectares) Located at Sandakan, Sabah
34. Earthwork Activities For Proposed Conversion, Amalgamation, Subdivision and Development of NT.043238875, NT.04317179 & NT.043172818 Into A Residential Development At Kg Serusup, District Of Tuaran
35. Earthwork Activities at Proposed Dumping Site (18.1 Hectare) At CL 015606283, Kingfisher, Kota Kinabalu, Sabah
36. Porposed Clearing Activities of FR.154000674 (1,200 Ha) at Kg.Tatalaan 1 Joint Venture Between The Beneficiaries of Communal Grant of Kg.Tatalaan 1 With Sentotimber Sdn Bhd, Pensiangan, Sabah.
37. Earthwork Activities And Proposed Amalgamation And Subdivision Of New Water Tank And PPU on CL.025339780 (Individual Title), 2 Blocks of Condominium on CL.025367999, 3 Blocks of Apartment on CL.025368003 and Mixed-Used Development on CL.025368085 & CL.025368076 (Total 15.65 Hectares) at Lok Kawi, District of Papar, Sabah (With Subsidiary (Strata) To Be Applied For).
38. Earthwork Activities for Proposed Conversion, Subdivision and Development of CL. 135314439 into a Housing Development at Kampung Ulu Liawan, District of Keningau
39. Replanting Activities at Litang Estate (776 Hectares), Lahad Datu, Sabah
40. Earthwork Activities For Projek Pembinaan Kompleks Sukan Tongod, Sabah.
41. Project Menbina Jalan Tawayari, Lahad Datu, Sabah
42. Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar dan 1 Block Dewan Makan, Makmal dan Bengkel KH/PAV Serta Pagar di Sk Pekan Pensiangan Untuk Perluasan Sekolah K9 Di Daerah Nabawan, Negeri Sabah.
43. Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (Sprm) Negeri Sabah



44. Earthwork Activities for The Proposed Development of KK One For Redevelopment/Rehabilitation of Existing Approved Building Structure Oo Komplex Star City (Phase IIC) On Part of TL.017546940 & TL.017544713 at Kampung Air, Kota Kinabalu, Sabah.
45. Aktiviti Kerja Tanah Dan Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (Sprm) Di Sebahagian Cl.015694381, Kota Kinabalu, Sabah
46. Activities, Reclamation, And Construction Of Proposed Mixed Development On CL. 015708531 With 1.821 Ha At Sutera Harbour, Kota Kinabalu, Sabah
47. Proposed Logging Activities On Pt.20-20080088 (2,902 Hectares) At Paitan, District Of Labuk Sugut, Sabah
48. Earthwork Activities For New Mosque With 6.475 Hectares (Phase 2) On Part Of L.A. 20-15120271, Jalan Seri Melor, District Of Semporna, Sabah.

D. Proposal Mitigation Measure

1. Kerja – kerja Pembersihan Kawasan Skim Penempatan Nabawan Melalui G.N.444-69 Seluas 418.65 Hektar, Nabawan, Sabah
2. Proposed 2-Storey Seaside Resort on Nt.10207 and Nt.023225961 at Kg. Kinarut Laut, District of Papar, Sabah
3. Proposed Replanting of Oil Palm Plantation with 157.44 Hectares at Ladang Hassan, Sandakan, Sabah
4. Proposed Resort and Diving Academy (Phase 2) At Mamutik Island, Kota Kinabalu, Sabah.
5. Replanting of Oil Palm Plantation (464.32 Ha) at Koyah Estate, Kinabatangan, Sabah
6. Development of Mixed Agricultural Plantation at CL.135325736 (370.03 Ha), Keningau, Sabah
7. Proposed Oil Palm Plantation (376.68 Ha) at District of Tongod, Sabah
8. Replanting Of Oil Palm Plantation At Kandang Besar Estate (192 Ha), Keningau, Sabah
9. Proposed Resort Development On Tol 10900260 At Celebes Sea, Tawau, Sabah

E. Had been undertaking various technical assignments in fieldwork for baseline studies (EIA) and monitoring works since joining the company in October 2009:

i) Handling Monitoring Equipments

1. High Volume Sampler (Total Suspended Particulates & PM10).
2. Noise measurement using standard Noise Meter (Soundpro, Svantex, SLM2900 & Lutron).
3. Vibration (Mini Super-graph Operating) i.e; Blasting & vibration activity.



ii) Monitoring Activities

1. Water sampling procedures: Surface water, sea water and effluent discharge sampling.

iii) Special Study

1. Penyediaan Prosedur Tetap Operasi Dan Garis Panduan Pelaksanaan Pematuhan sendiri Bagi Pematuhan Syarat-Syarat Alam Sekitar untuk Aktiviti Peladangan Kelapa Sawit Di negeri Sabah (2018).
2. Environmental Self-regulation (ESR) guideline in compliance with environmental condition for Housing and Commercial development activities in Sabah (2021).
3. Standard Operating Procedure (SOP) for compliance with environmental condition of Housing and Commercial development activities in Sabah (2021).

E. Major Professional Course Involved

1. Seminar Peaturan-peraturan Kualiti Alam Sekeliling (Udara Bersih) 2014 (DOE) (6th November 2019)
2. Seminar Pematuhan Industri dan Guided Self-Regulation (GSR) by Department of Environment (DOE) (27th Oct 2016)
3. Induction course for EIA consultant conducted by Department of Environment (DOE), Sabah (21st – 22nd May 2013) - passed the examination.
4. Course on Environmental Management (Major blasting activities) conducted by Institute Quarrying Malaysia (IQM) (14th – 17th June 2011) – passed the examination.
5. Kursus penghantaran laporan bulanan effluent secara online yang dilaksanakan oleh Jabatan Alam Sekitar (JAS) Negeri Sabah (21st June 2011).



CURRICULUM VITAE – Yong Kock Hui

Name : Yong Kock Hui

Qualification : Geologist

Key Qualification : Experience in engineering geology, geotechnical engineering, and structural geology

Membership : Corporate Member, Institute Geology of Malaysia (M358)
Member, Geological Society of Malaysia
Registered with Environment Protection Department, Sabah

Nationality : Malaysian

Race : Chinese

Date of Birth : 28th December 1972

Place of Birth : Sabah, Malaysia

Education : B. Sc. (Hons.) Earth Science/Geology National University of Malaysia, 1997

Major Consultancy Projects Involved

A. Environmental Impact Assessment (EIA) Projects involved are:-

1. Proposed Residential Development consisting of 7 Levels Parking Podium, a Recreational Podium and 3 Tower Blocks of 26-Storey Residential Tower on CL. 015058518 at Jalan Kolam, Kota Kinabalu [with Subsidiary (Strata) Titles to be Applied for].
2. The Proposed Condominium Development On TI. 017517850, CI. 015078323 And T.L. 015079848 (With Subsidiary (Strata) Titles To Be Applied For) Along Jalan Tuaran, Likas, Kota Kinabalu , Sabah.
3. Proposed Earthwork Activities And Development Of 560 Units On 1 Block Of 8-Storey Carpark And Facilities Podium With Two (2) Towers Of 32-Storey Condominium On CI.215417048 At Donggongon Town In The District Of Penampang, Kota Kinabalu, Sabah (With Subsidiary Strata Title To Be Applied For)



4. Earthwork Activities And Development Of Proposed 3-Storey Shop/Office (With Subsidiary Titles To Be Applied For) And 3/2½- Storey Terrace Houses On Cl. 025314096 (6.75 Ha) At Mile 14, Penampang-Papar Road, Kinarut, District Of Papar
5. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ansip – Dalit – Kahaba, Keningau, Sabah.
6. Aktiviti Kerja Tanah Dan Menaiktaraf Jalan Ke Mesej Mangalias, Tenom, Sabah.
7. Earthwork Activities And Proposed Amalgamation And Subdivision Of New Water Tank And PPU On CL.025339780 (Individual Title), 2 Blocks Of Condominium On CL.025367999, 3 Blocks Of Apartment On CL.025368003 And Mixed-Used Development On CL.025368085 & CL.025368076(Total 15.65 Hectares) At Lok Kawi, District Of Papar, Sabah(With Subsidiary (Strata) To Be Applied For).
8. Aktiviti Kerja Tanah Dan Membina Jalan Tawayari, Lahad Datu, Sabah.
9. Cadangan Membina Gantian 12 Bilik Darjah, Rumah Guru 6 Unit, Bangunan Baru Asrama 120 Pelajar Dan 1 Blok Dewan Makan, Makmal Dan Bengkel KH/PAV Serta Pagar Di SK Pekan Pensiangan Untuk Perluasan Sekolah K9 Di Daerah Nabawan, Negeri Sabah.
10. Aktiviti Kerja Tanah Dan Pembinaan Kompleks Pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) Di Sebahagian Cl.015694381, Kota Kinabalu, Sabah.
11. Existing Aggregate Quarry Operation And Associated Facilities On Lots FR.014010934, NT.013081815, NT.013068543 And NT.013068534 At Sepanggar, Kota Kinabalu, Sabah.
12. Earthwork Activities And Proposed 30-Storey Condominium (With Subsidiary (Strata) Titles To Be Applied For) On CL.015001359 (0.77 Hectares) And Access Road On Part Of CL.017519274 And TL.017519078 (0.31 Hectares), Jalan Bukit Bendera Upper, Kota Kinabalu, Sabah.
13. Aktiviti Kerja Tanah dan Projek Gantian Penuh 12 Bilik Darjah Dan Lain-Lain Kemudahan Di Sekolah Kebangsaan Nampasan, Ranau, Sabah.
14. Aktiviti Kerja Tanah Dan Projek Naiktaraf Jalan Dari Kg. Bangkulat Ke Kg. Imbak, Tongod, Sabah.
15. Earthwork Activities And Upgrading Of 6.27 Km Jalan Ulu Karangan, Beaufort, Sabah.
16. Aktiviti Kerja Tanah Dan Projek Jalan Suang Duyung Ke Kg. Tanjung Layak-Layak, Pitas, Sabah.
17. Proposed Earthwork Activities And Conversion, (From NT To CL), Subdivision And Commercial Tourism Development Consist Of 10 Units Of Homestay On Nt013068963 At Kg. Tombongon, Menggatal, Kota Kinabalu.
18. Environmental Impact Assessment Report For Earthwork Activities And Construction Of Inanam Laut Reservoir (Telibong li Phase 2 Water Treatment Plant Upgrading Works) At Inanam, Sabah.
19. Environmental Impact Assessment Report For Proposed Earthwork Activities For Development Of Commercial Complex On Cl.215429208 And Part Of Cl.215429324 (3.988 Ha) At Jalan Bundusan, Penampang District Sabah.
20. Environmental Impact Assessment Report For Earthwork Activities And Proposed 560 Units On 1 Block Of 8 Storey Carpark And Facilities Podium With 2 Towers Of 31 & 32 Storey Condominium On Cl.215417048 (2.828 Hectares) And Access



Road Upgrading (105 M Length)At Donggongon Town, District Of Penampang,Sabah.

EPD SABAH