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ENVIRONMENTAL COMPLIANCE REPORT

For

**FOREST MANAGEMENT OF BENGKOKA AND
TAMBALUGU FOREST RESERVES (6,467 HA), PITAS,
SABAH.**

3RD REPORT OF YEAR 2025

JANUARY - APRIL	MAY - AUGUST	SEPTEMBER - DECEMBER
		√

AEC Ref. No. : JPAS/PP/15/600-1/01/3/60(46)
Report Reference : CK/MO411/1197-3/25
Date of Report : 17th December 2025



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- Water Quality Test Report
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GERAK SAGA SDN BHD

ENVIRONMENTAL COMPLIANCE REPORT

1.0 INTRODUCTION

The project site encompasses an area of approximately 6,467 hectares, consisting of 6,270 hectares within the Bengkoka Forest Reserve and 197 hectares within the Tambalugu Forest Reserve. For operational efficiency, these two forest reserves are managed as a single Forest Management Unit (FMU), which is divided into four coupes: Coupes 1 to 3 within Bengkoka and Coupe 4 within Tambalugu. The project proponent holds a management and operation license for both forest reserves under the Industrial Tree Plantation (TPP) program.

1.1 Monitoring Information

Project Title : Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah

EIA Letter Approval Ref. : JPAS/PP/15/600-1/01/3/60(36) dated 1st November 2017

Monitoring Period : September - December 2025

Date of Monitoring : Compliance Audit : 13th October 2025
Water Sampling : 13th October 2025

EIA Consultant : Chemsain Konsultant Sdn. Bhd.

1.2 Project Proponent Information

Project Proponent : Gerak Saga Sdn. Bhd.

Contact Person : Mr. Thondik Venantius

Tel. No. : 088 – 663 494

Fax No. : 088 – 662 494

Environmental Officer : Ms. Chrystalyziana Lisa Venchin

Contact No. : 013 – 881 8127 (Mobile)

E-mail : c.venchin@forestsolutions.com.my

1.3 Post-EIA Consultant Information

Post-EIA Consultant : Chemsain Konsultant Sdn. Bhd.

Tel. No. : Office : 088 – 381 277 / 278

Fax No. : 088 – 381 280

Contact Person : Jessica Malagkas / Vianah Boman

Email : jessica.malagkas@chemsain.com/vianah.boman@chemsain.com

1.4 Other Approvals

Development Plan Ref. : NIL

Earthwork Plan Ref. : NIL

Drainage Plan Ref. : NIL

ESCP Ref. : NIL

1.5 Project Status*

Project Completion : Total planted area : 4,016.60 Ha
Harvested : 3,618.20 Ha

Project progress status is as at 16 October 2025. Figures reported by the project proponent are based on the declared production area and remain subject to verification by the Quantity Surveyor (QS) and issuance of the Occupation Certificate (QC).

Chronology of Events :

Table 1.0: Chronology of events

No.	Event	Date
1.0	Signing of AEC Ref. No.: JPAS/PP/15/600-1/01/3/60	06 th December 2017

2.0 LEGAL REQUIREMENT

The Project is classified as a prescribed activity under the **Second Schedule of the Environment Protection Enactment (Prescribed Activities) (Environmental Impact Assessment) Order 2005** under **Item 2 (i) & 2 (ii)**.

Environmental compliance auditing is carried out every four (4) months and reported in accordance with the Approval Conditions as specified in the **Syarat-Syarat Alam Sekitar [Seksyen 12(1) dan 20, Enakmen Perlindungan Alam Sekitar 2002]** of the EPD ref: JPAS/PP/15/600-1/01/3/60 dated **06th December 2017**.

3.0 CHANGES TO PROJECT CONCEPT / ENVIRONMENT

3.1 Project Concept

No.	Item	Changes
1.	Project Component	Nil
2.	Changes to Land Lot	Nil
3.	Land Area	Nil

4.0

3.2 Surrounding Environment

No.	Item	Changes
1.	Land Use	Nil
2.	River / Coastal Morphology	Nil

5.0

4.0 MONITORING LOCATION

Designated sampling locations are shown in **Figure 1.0** with details tabulated in **Table 2.0**.

Table 2.0: Environmental sampling particulars

Monitoring Component	Key	GPS Coordinates (Datum: Timbalai)	Location Description
Surface Water Quality	W1	N 06° 51' 18.9" E 117° 06' 41.1"	Unnamed stream downstream of Bengkoka Forest Reserve at Kg. Kandang
	W2	N 06° 50' 40.6" E 117° 09' 18.6"	Unnamed stream downstream of Bengkoka Forest Reserve at Kg. Gumpa
	W3	N 06° 50' 40.1" E 117° 10' 38.2"	Sg. Bongkol of Safoda Dam within Bengkoka Forest Reserve
	W4	N 06° 51' 10.4" E 117° 08' 52.6"	Sg. Kakarangan downstream of Bengkoka Forest Reserve
	W5	N 06° 52' 39.3" E 117° 09' 49.8"	Unnamed stream downstream of Bengkoka Forest Reserve
	W6	(refer to Figure 1)	Coupe 4 (refer to Figure 1)

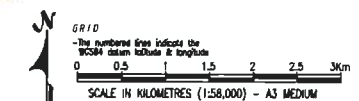
ENVIRONMENTAL MONITORING AND COMPLIANCE AUDIT

Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah.

LEGEND:

- Project Boundary (Bengkoka Forest Reserve and Tambalugu Forest Reserve)
- Forest Reserve Boundary
- Road
- River/Stream
- W1-W6 Water Monitoring Points
- 30m Riparian Reserve
- 50m Mangrove Forest Buffer Zone
- 50m Water Reservoir Buffer Zone
- 5m Riparian Reserve
- ⬇ Traffic Signage
- Mangrove Forest
- Water Catchment - Approx. 371 Ha (to be confirmed through ground assessment)
- Water Reservoir - Approx. 72 Ha (to be confirmed through ground assessment)
- >25° Slope - Approx. 17 Ha (to be confirmed through ground assessment)
- Coupe 1
- Coupe 2
- Coupe 3
- Coupe 4
- Oil Palm Plantation
- ▲ Existing Fire Towers

Point	Coordinates	Point	Coordinates
1	0° 50' 12.00"N 117° 12' 41.00"E	33	0° 50' 12.00"N 117° 12' 41.00"E
2	0° 50' 12.00"N 117° 12' 41.00"E	34	0° 50' 12.00"N 117° 12' 41.00"E
3	0° 50' 12.00"N 117° 12' 41.00"E	35	0° 50' 12.00"N 117° 12' 41.00"E
4	0° 50' 12.00"N 117° 12' 41.00"E	36	0° 50' 12.00"N 117° 12' 41.00"E
5	0° 50' 12.00"N 117° 12' 41.00"E	37	0° 50' 12.00"N 117° 12' 41.00"E
6	0° 50' 12.00"N 117° 12' 41.00"E	38	0° 50' 12.00"N 117° 12' 41.00"E
7	0° 50' 12.00"N 117° 12' 41.00"E	39	0° 50' 12.00"N 117° 12' 41.00"E
8	0° 50' 12.00"N 117° 12' 41.00"E	40	0° 50' 12.00"N 117° 12' 41.00"E
9	0° 50' 12.00"N 117° 12' 41.00"E	41	0° 50' 12.00"N 117° 12' 41.00"E
10	0° 50' 12.00"N 117° 12' 41.00"E	42	0° 50' 12.00"N 117° 12' 41.00"E
11	0° 50' 12.00"N 117° 12' 41.00"E	43	0° 50' 12.00"N 117° 12' 41.00"E
12	0° 50' 12.00"N 117° 12' 41.00"E	44	0° 50' 12.00"N 117° 12' 41.00"E
13	0° 50' 12.00"N 117° 12' 41.00"E	45	0° 50' 12.00"N 117° 12' 41.00"E
14	0° 50' 12.00"N 117° 12' 41.00"E	46	0° 50' 12.00"N 117° 12' 41.00"E
15	0° 50' 12.00"N 117° 12' 41.00"E	47	0° 50' 12.00"N 117° 12' 41.00"E
16	0° 50' 12.00"N 117° 12' 41.00"E	48	0° 50' 12.00"N 117° 12' 41.00"E
17	0° 50' 12.00"N 117° 12' 41.00"E	49	0° 50' 12.00"N 117° 12' 41.00"E
18	0° 50' 12.00"N 117° 12' 41.00"E	50	0° 50' 12.00"N 117° 12' 41.00"E
19	0° 50' 12.00"N 117° 12' 41.00"E	51	0° 50' 12.00"N 117° 12' 41.00"E
20	0° 50' 12.00"N 117° 12' 41.00"E	52	0° 50' 12.00"N 117° 12' 41.00"E
21	0° 50' 12.00"N 117° 12' 41.00"E	53	0° 50' 12.00"N 117° 12' 41.00"E
22	0° 50' 12.00"N 117° 12' 41.00"E	54	0° 50' 12.00"N 117° 12' 41.00"E
23	0° 50' 12.00"N 117° 12' 41.00"E	55	0° 50' 12.00"N 117° 12' 41.00"E
24	0° 50' 12.00"N 117° 12' 41.00"E	56	0° 50' 12.00"N 117° 12' 41.00"E
25	0° 50' 12.00"N 117° 12' 41.00"E	57	0° 50' 12.00"N 117° 12' 41.00"E
26	0° 50' 12.00"N 117° 12' 41.00"E	58	0° 50' 12.00"N 117° 12' 41.00"E
27	0° 50' 12.00"N 117° 12' 41.00"E	59	0° 50' 12.00"N 117° 12' 41.00"E
28	0° 50' 12.00"N 117° 12' 41.00"E	60	0° 50' 12.00"N 117° 12' 41.00"E
29	0° 50' 12.00"N 117° 12' 41.00"E	61	0° 50' 12.00"N 117° 12' 41.00"E
30	0° 50' 12.00"N 117° 12' 41.00"E	62	0° 50' 12.00"N 117° 12' 41.00"E
31	0° 50' 12.00"N 117° 12' 41.00"E	63	0° 50' 12.00"N 117° 12' 41.00"E
32	0° 50' 12.00"N 117° 12' 41.00"E	64	0° 50' 12.00"N 117° 12' 41.00"E



Mitigation Measures and Monitoring Locations

Figure: 1.0

D:\JAKAR\DRAWINGS\MOA1\1197\F10-10.DWG

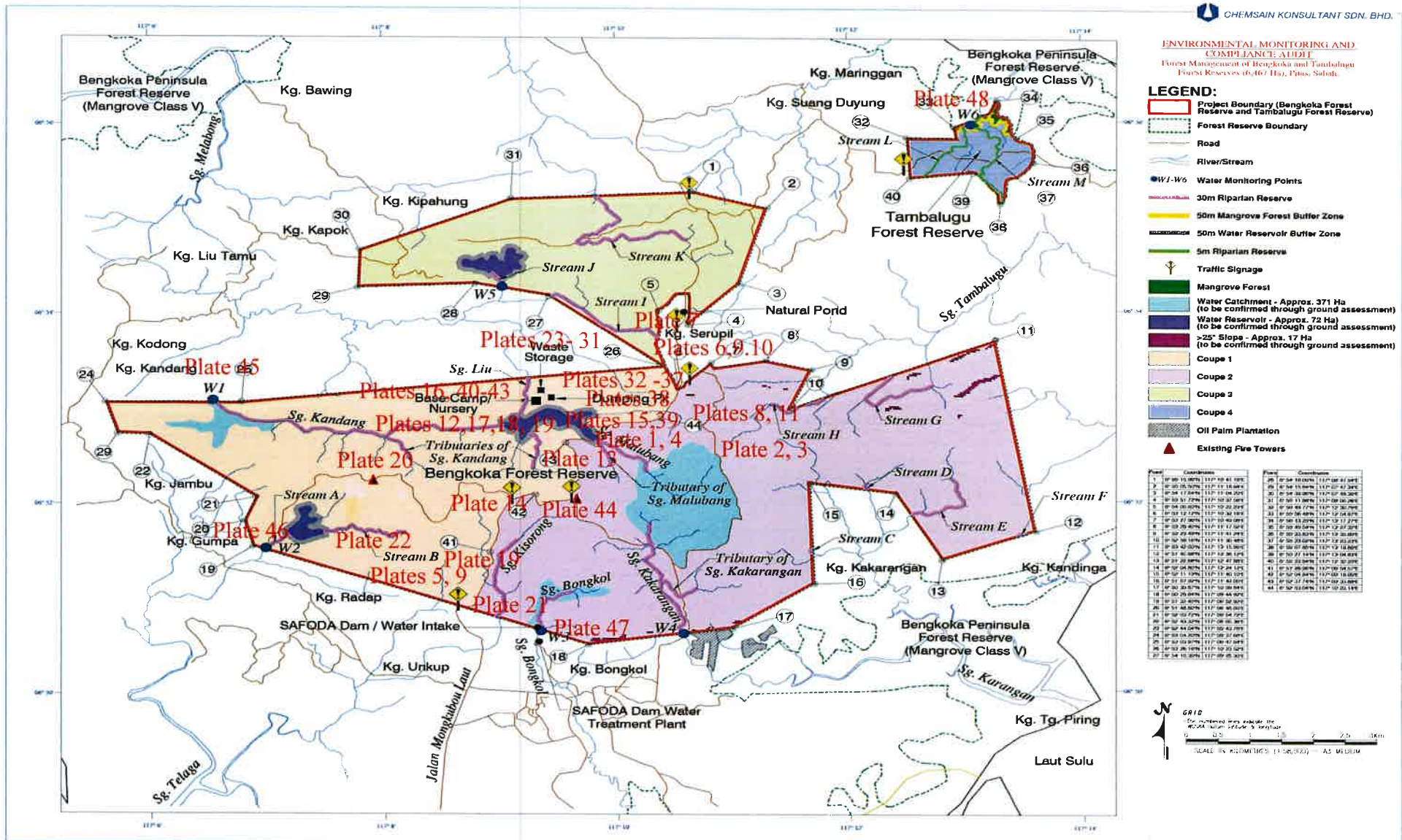


Figure 2.0: Monitoring Plates

5.0 COMPLIANCE STATUS, OBSERVATION & RECOMMENDATION

Nama Projek	: Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah
Nama Pemaju	: Gerak Saga Sdn Bhd
Rujukan fail jabatan ini	: JPAS/PP/15/600-1/01/3/60 (36)
Tarikh Akujanji	: 1 st November 2017
Penyedia laporan pematuhan ini	: Chemsain Konsultant Sdn. Bhd.
Tempoh diliputi oleh laporan ini	: September - December 2025

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
5.1	<u>Kawalan Tapak Pembangunan</u>				
5.1.1	<u>Kawalan Kawasan Perladangan Hutan</u>				
i.	Satu (1) salinan pelan penyukatan sempadan kawasan projek seluas 6,467 hektar dalam kawasan Hutan Simpan Bengkoka dan Tambalugu, Daerah Pitas sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini hendaklah dikemukakan ke JPAS sebelum aktiviti perladangan hutan dimulakan.	Comply	The Project Demarcation Plan was submitted to the Environment Protection Department (EPD) as Appendix D of the 1st Environmental Compliance Audit Report (EMCAR) for 2019.	-	-
ii.	Sempadan kawasan projek yang telah diukur hendaklah ditanda di lapangan serta dipasang dengan papan tanda di lokasi-lokasi yang mudah dilihat sebelum aktiviti perladangan hutan dimulakan.	Comply	A signboard, entrance (barrier) gate, red-painted trees, and red-painted wooden pegs were observed in place, clearly demarcating the project coupes and blocks.	4 - 8, 12	-
iii	Semua tanda sempadan tapak projek hendaklah tidak ditimbus, dihalang, dirosakkan atau diganggu daripada kedudukan asal.	Comply	The signboard and entrance (barrier) gate were observed to be in good condition during the site visit.	4, 6 - 12	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
iv	Aktiviti perladangan hutan adalah <u>tidak dibenarkan</u> di dalam kawasan tadahan air, takungan air dan "water intake point" sebagaimana dinyatakan dan masing-masing ditandakan sebagai "Water Catchment", "Water Reservoir" dan "Water Intake" dalam maklumat tambahan rujukan CK/EV403-4278/0199/17 bertarikh 13 April 2017 dan ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	- Project development was observed to be confined within the designated coupes, as shown in Figure 1.0. - According to the project proponent, water catchments, the water reservoir, and water intake points have been excluded from development activities. - Additionally, the project proponent has carried out enrichment planting using local tree species along the riparian reserves of the water reservoir area.	1 - 3	-
v	Zon penampungan dengan kelebaran tidak kurang 50 meter hendaklah disediakan di sempadan kawasan projek yang bersempadan dengan Hutan Simpan Bakau Semenanjung Bengkoka (Kelas V) dan di sempadan kawasan 'Water Reservoir' sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	According to the project proponent, a 50-meter buffer zone has been established for the mangrove forest area at Coupe 4.	-	-
vi	Sebarang aktiviti perladangan hutan <u>tidak dibenarkan</u> dalam kawasan zon penampungan.	Comply	As stated by the project proponent, the 50-meter buffer zone is excluded from project development activities.	-	-
vii	Sebarang aktiviti perladangan hutan <u>tidak dibenarkan</u> dalam kawasan berkecerunan 25 darjah atau lebih sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	Development within the steep (protected) area ($\geq 25^\circ$ slopes) was not sighted during the visit.	10	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
viii	Sempadan kawasan tadahan air, takungan air dan "water intake point", zon penampungan dan kawasan berkecerunan 25 darjah atau lebih yang dilindungi hendaklah ditanda di lapangan dan dipasang dengan papan tanda di lokasi-lokasi yang mudah dilihat sebelum aktiviti perladangan hutan dimulakan.	Comply	Signboards sighted in place demarcating onsite buffer zone.	9 - 11	-
5.1.2	<u>Kawalan Pembinaan Jalan</u>				
i	Pembinaan jalan hendaklah dikawal dengan meminimalkan aktiviti kerja tanah.	Comply	Existing access roads were fully utilized.	13 - 15	-
ii	Jalan sedia ada hendaklah digunakan bagi mengurangkan gangguan terhadap tanah.	Comply	Refer to the comments in AEC 5.1.2 (i) .	13 - 15	-
iii	Sistem perparitan hendaklah disediakan bagi mengalirkan air keluar dari struktur jalan dan dilencongkan ke kawasan yang mempunyai tumbuhan.	Comply	The existing access road was observed to be equipped with earth drainage, directing surface runoff toward the nearest vegetated area.	13 - 15	-
iv	Aktiviti pelupusan atau pembuangan bahan tanah berlebihan <u>tidak dibenarkan</u> dalam parit, sungai atau alur air.	Comply	Disposal of overburden into the nearest natural waterways was not sighted.	-	-
5.1.3	<u>Pembinaan Rumah Pekerja, Kem Pekerja Atau Bengkel</u>				
i	Sebarang aktiviti kerja tanah dan pembersihan kawasan bagi pembinaan rumah pekerja, kem pekerja atau bengkel hendaklah diminimalkan.	Comply	Workers' quarters and the nursery at the base camp were observed to be fully utilized.	16 - 20	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
			- No project workshop was observed to be constructed within the project site. - According to the project proponent, maintenance of project vehicles is carried out at an external workshop.		
ii	Sistem perparitan yang berkesan hendaklah disediakan bagi mengawal larian air permukaan dan air buangan dari kawasan rumah pekerja, kem pekerja atau bengkel dan hendaklah dilencongkan ke kawasan yang mempunyai tumbuhan dan <u>tidak dibenarkan</u> dialir terus ke dalam sungai atau alur air.	Comply	The workers' quarters and nursery were observed to be equipped with proper concrete drainage, effectively diverting surface runoff toward the nearest vegetated area.	19	-
iii	Kedudukan rumah pekerja atau kem pekerja hendaklah terletak pada jarak mendatar tidak kurang 30 meter dari tebing sungai atau alur air.	Comply	The workers' quarters were observed to be located more than 30 meters from the nearest natural waterway.	16 - 17	-
iv	Kedudukan bengkel hendaklah terletak pada jarak mendatar tidak kurang 50 meter dari tebing sungai atau alur air.	Not Applicable	Refer to the comments in AEC 5.1.3 (i) .	-	-
v	Semua rumah pekerja, kem pekerja atau bengkel sedia ada yang tidak mematuhi peraturan-peraturan yang dinyatakan dalam Perjanjian Syarat-syarat Alam Sekitar ini hendaklah dipindahkan dan dikawal sebagaimana ditetapkan.	Comply	Siting of these facilities sighted in compliance with the AEC.	-	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date						
5.1.4	<u>Rehabilitasi Tanah Yang Terdedah</u>										
i	Semua kawasan tanah dan cerun yang terdedah hendaklah distabilkan dan direhabilitasi dengan menanam spesies tumbuhan yang diluluskan oleh Jabatan Perhutanan Negeri Sabah.	Comply	- Revegetation was carried out on exposed slopes to reduce the risk of soil erosion. - Existing vegetation in inactive and idle project areas was retained and remains undisturbed.	6, 9-11	-						
5.2	<u>Perlindungan Sungai</u>										
i	Simpanan sungai berikut hendaklah dilindungi dan ditanda di lapangan: <table><tr><th>Nama Sungai</th><th>Simpanan Sungai</th></tr><tr><td>Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai, Sungai Kandang dan anak sungai, Sungai Liu, sungai A hingga K serta semua sungai yang mempunyai kelebaran 5 meter atau lebih.</td><td>Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.</td></tr><tr><td>Sungai L dan M serta semua sungai yang mempunyai kelebaran kurang daripada 5 meter</td><td>Sekurang-kurangnya selebar 5 meter pada jarak mendatar dari tebing sungai.</td></tr></table>	Nama Sungai	Simpanan Sungai	Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai, Sungai Kandang dan anak sungai, Sungai Liu, sungai A hingga K serta semua sungai yang mempunyai kelebaran 5 meter atau lebih.	Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.	Sungai L dan M serta semua sungai yang mempunyai kelebaran kurang daripada 5 meter	Sekurang-kurangnya selebar 5 meter pada jarak mendatar dari tebing sungai.	Comply	Identified riparian reserves within the project site were observed to be demarcated with signboards, and tree trunks were marked with blue paint.	21, 22	
Nama Sungai	Simpanan Sungai										
Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai, Sungai Kandang dan anak sungai, Sungai Liu, sungai A hingga K serta semua sungai yang mempunyai kelebaran 5 meter atau lebih.	Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.										
Sungai L dan M serta semua sungai yang mempunyai kelebaran kurang daripada 5 meter	Sekurang-kurangnya selebar 5 meter pada jarak mendatar dari tebing sungai.										

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
ii	Sebarang aktiviti pembersihan dan perladangan hutan adalah <u>tidak dibenarkan</u> dalam simpanan sungai sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	No development activities were observed within the riparian reserves.	21,22	-
iii	Sempadan simpanan sungai hendaklah ditanda di lapangan dengan cat merah serta dipasang dengan papan tanda di lokasi-lokasi yang mudah dilihat sebelum aktiviti pembersihan dan perladangan hutan dimulakan.	Comply	Refer to the comments in AEC 5.2 (i) .	21, 22	-
iv	Sebarang pembinaan rumah pekerja, kem pekerja, bengkel, tandas atau struktur bangunan lain <u>tidak dibenarkan</u> dalam simpanan sungai.	Comply	No construction of structures was observed within the riparian reserves.	-	-
v	Sebarang penyimpanan bahan minyak atau bahan toksik <u>tidak dibenarkan</u> dalam simpanan sungai.	Comply	• Storage of oils and toxic material within the riparian reserves was not sighted. • Fertilizer bags were observed to be properly stacked inside the fertilizer store.	23 -33	-
vi	Sebarang bahan tanah lebihan, sisa pepejal, sisa biomas, kumbahan, bahan minyak, kimia atau bahan-bahan toksik <u>tidak dibenarkan</u> dilupuskan dalam simpanan sungai.	Comply	Disposal of overburden, biomass or any types of wastes (i.e. sewage, oil and chemical, etc.) within the riparian reserves was not sighted.	-	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date				
5.2.1.2	Laporan pemantauan kualiti air juga hendaklah dikemukakan ke JPAS bersama dengan Laporan Pematuhan tersebut. Lokasi dan parameter yang perlu dianalisa adalah seperti berikut: <table><tr><th>Lokasi</th><th>Parameter</th></tr><tr><td>Sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.</td><td>Turbidity, Total Suspended Solid, Oil & Grease, Total Coliform Count.</td></tr></table>	Lokasi	Parameter	Sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Turbidity, Total Suspended Solid, Oil & Grease, Total Coliform Count.	Comply	Surface water sampling activities were conducted at locations W1, W2, W3, and W6, as shown in Figure 1.0. Sampling at W4 and W5 could not be carried out due to the following reasons: i. W4 – Inaccessibility of the sampling location. ii. W5 – No ongoing operations in this area.	45-48	-
Lokasi	Parameter								
Sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Turbidity, Total Suspended Solid, Oil & Grease, Total Coliform Count.								
5.3	<u>Bahan Minyak Dan Sisa Toksik</u>								
i	Bahan minyak dan sisa toksik adalah <u>tidak dibenarkan</u> dilupuskan atau dibiarkan mengalir ke dalam parit, sungai atau alur air.	Comply	Disposal of oils and toxic material into natural waterways was not sighted.	-	-				
ii	Bahan minyak dan sisa toksik hendaklah dikumpul dan disimpan dalam bekas yang kukuh dan tidak mudah bocor. Bekas-bekas penyimpanan tersebut hendaklah dilabel.	Comply	- A skid tank containing diesel was observed in place. - Oils were stored in HDPE containers and properly arranged within the oil and lubricant storage shed. - Agrochemicals were observed to be stored in appropriate containers, clearly labelled, and neatly arranged. - Containers used for storing scheduled wastes were labelled with the appropriate Scheduled	27- 35	The project proponent is reminded to ensure that all scheduled waste containers are properly labelled in full compliance with Regulation 10, including the correct format, required details, and legibility, to avoid non-compliance with regulatory requirements.				

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
			Waste (SW) codes. However, the labels do not comply with the requirements stipulated under Regulation 10 of the Environmental Quality (Scheduled Wastes) Regulations 2005 , particularly with respect to prescribed labelling information.		
iii	<i>Kawasan penyimpanan bahan minyak dan sisa toksik tersebut hendaklah terlindung dari hujan dan terletak pada jarak mendatar tidak kurang 50 meter dari tebing sungai atau alur air.</i>	Comply	The skid tank, generator and oil storage, chemical storage, and the scheduled waste shed were all observed to be sheltered from weather exposure and located more than 50 meters from the nearest natural waterway.	27 - 35	-
iv	<i>Kawasan penyimpanan bahan minyak dan sisa toksik hendaklah disediakan dengan sistem saliran serta perangkap minyak.</i>	Comply	- The diesel skid tank is equipped with an oil trap, with the fuel dispensing nozzle installed just above a containment chamber filled with sand to prevent oil from seeping directly into the ground. - The generator, as well as the oil and lubricant storage shed, were observed to have oil traps in place next to their respective structures.	28, 30 & 33	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
v	Bahan minyak dan sisa toksik tersebut hendaklah dilupuskan mengikut keperluan Peraturan-peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005 .	Comply	The project proponent informed that a DOE-licensed contractor, Kualiti Alam SB, has been appointed to manage the disposal of scheduled waste generated on-site.	-	-
5.4	<u>Kawalan Sisa Pepejal Dan Biomas</u>				
i	Sebarang aktiviti pelupusan sisa pepejal dan biomas <u>tidak dibenarkan</u> dalam parit, sungai atau alur air.	Comply	No disposal of solid waste or biomass into natural waterways was observed.	-	-
ii	Kemudahan mengumpul dan mengutip sisa pepejal dan biomas hendaklah disediakan. Lokasi kawasan pengumpulan hendaklah terletak pada jarak mendatar tidak kurang 30 meter dari tebing sungai atau alur air.	Comply	- Garbage bins were observed in place at the workers' quarters area and near the chemical storage room. - A dumping pit was observed, located more than 30 meters from the nearest natural waterway.	38-40	-
iii	Semua sisa pepejal seperti botol, tin, plastik dan besi hendaklah dikumpul secara berasingan dan dikitar semula.	Comply	- Recycling bins were provided to facilitate on-site solid waste segregation; however, one of the bins was observed to be overfilled. - A separate collection bin for metal scrap was observed in place.	36 - 37	The project proponent is reminded to monitor this area regularly and ensure timely collection of recyclable materials.
iv	Sekiranya tiada kawasan pelupusan yang sesuai dalam kawasan projek, sisa pepejal dan biomas hendaklah dilupuskan di kawasan yang diluluskan oleh pihak berkuasa tempatan yang berkaitan.	Comply	Refer to the comments in AEC 5. 4 (ii) .	-	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
5.5	<u>Kawalan Sisa Kumbahan / Sisa Cecair</u>				
i	Kemudahan sistem sanitasi dan sistem perawatan kumbahan / sisa cecair hendaklah disediakan di kawasan projek.	Comply	Toilets within the base camp were observed to be equipped with septic tanks.	40 - 41	-
ii	Sebarang pelepasan atau pelupusan terus sisa kumbahan / sisa cecair <u>tidak dibenarkan</u> dalam sungai atau alur air.	Comply	No direct discharge of sewage into natural waterways was observed.	-	-
iii	Sebarang effluen kumbahan yang dihasilkan hendaklah mematuhi sekurang-kurangnya Piawai B, Peraturan –Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009 .	Not Applicable	No Sewage Treatment Plant (STP) has been constructed within the project site.	-	-
5.6	<u>Kawalan Kualiti Udara Dan Kebakaran</u>				
i	Pembakaran terbuka adalah <u>tidak dibenarkan</u> .	Comply	- The project proponent affirmed its commitment to a strict zero open burning policy. - Firefighting facilities were observed on-site, including a fire depot, fire indicator signage, and a fire lookout tower. - According to the project proponent, signboards prohibiting open burning have been installed at strategic locations for notification purposes.	42-44	-
ii	Pelan pengurusan dan pencegahan kebakaran kawasan projek hendaklah disediakan dan	Comply	The Fire Management and Prevention Plan was included as Appendix C in the 3 rd	-	-

AEC No.	Approved Environmental Condition	Status	Observation / Comment	Plate No.	Corrective Action and Completion Date
	<i>dilaksanakan serta satu (1) salinan pelan tersebut hendaklah dikemukakan ke JPAS.</i>		Environmental Compliance Audit Report (EMCAR) of 2019.		
5.7	<u>Penghentian Atau Penamatan Projek</u>				
<i>i</i>	<i>Semua struktur binaan yang tidak digunakan hendaklah dibuka secara teratur apabila berlaku penghentian atau penamatan projek tersebut.</i>	Not Applicable	Not applicable at the current stage of development as the Project is still on-going.	-	-
<i>ii</i>	<i>Semua struktur binaan yang didapati tidak selamat atau yang tidak dapat dipastikan selamat hendaklah dibuka.</i>	Not Applicable	Refer to the comment in AEC 5.7 (i) .	-	-
<i>iii</i>	<i>Satu Laporan Pematuhan Alam Sekitar dengan format dan kandungan laporan sebagaimana dinyatakan dalam Lampiran 1 hendaklah dikemukakan apabila berlaku penghentian atau penamatan projek tersebut.</i>	Not Applicable	Refer to the comment in AEC 5.7 (i) .	-	-

6.0 CONCLUSION

6.1 Overall Compliance for September - December 2025

The project (Forest Management of Bengkoka and Tambalugu Forest Reserves [6,467 ha], Pitas, Sabah) was found to follow the EIA approval conditions, with no non-compliances recorded.

However, the following improvement is recommended:

Ensure all scheduled waste containers are labelled in accordance with Regulation 10, using the correct format, required details, and ensuring legibility, to maintain full regulatory compliance.

APPENDIX B

Environmental Monitoring Report



1.0 WATER QUALITY ANALYSIS

1.1 MONITORING LOCATION

Surface water sampling was scheduled to be carried out on the 13th of October 2025 at six (6) monitoring locations, **W1** to **W6** as shown in **Figure 1.0**. However, sampling could only be done at W1, W2, W3 and W6 because W4 was dry and W5 was not yet operational during the site audit.

The weather was fine during the scheduled sampling date.

1.2 ANALYTICAL RESULTS

Analytical results for monitoring stations **W1**, **W2**, **W3** and **W6** are summarized in **Table 3.0** and compared to **Class IIB** of the **National Water Quality Standards for Malaysia (NWQSM)**. The laboratory test reports are presented in **Appendix C**.

Table 3.0: Surface Water Quality Monitoring Results

Monitoring Location Sampling Date/ Sampling Time	W1 13/10/2025 4.04 pm	W2 13/10/2025 4.58 pm	W3 13/10/2025 4.04 pm	W6 13/10/2025 6.06 pm	¹ LIMITS (Class IIB)
<u>Physical / Chemical Analysis</u>					
Total Suspended Solids (TSS), mg/L	11.0	5.0	5.0	8.0	50.0
Turbidity, NTU	65	19	15	7.5	50.0
Oil & Grease, mg/L	<1.50	<1.50	<1.50	<1.50	40; N
<u>Microbiological Analysis</u>					
Total Coliform Count (TCC), MPN/100mL	>1.6 x 10⁴	3.3 x 10 ²	3.5 x 10 ³	1.3 x 10 ³	5000

Notes: < > Below / above detection limit; NS - No sample available

1.3 DISCUSSION

Water quality monitoring results indicate that most parameters at W2, W3, and W6 complied with Class IIB limits. Total Suspended Solids and Oil & Grease levels were within permissible limits at all monitoring locations.

However, W1 showed non-compliance: turbidity exceeded the allowable limit, and the Total Coliform Count was substantially higher than the Class IIB standard, suggesting potential sediment disturbance and microbiological contamination.

Overall, water quality was generally acceptable, but further investigation and corrective measures are required at W1 to identify and mitigate possible pollution sources.

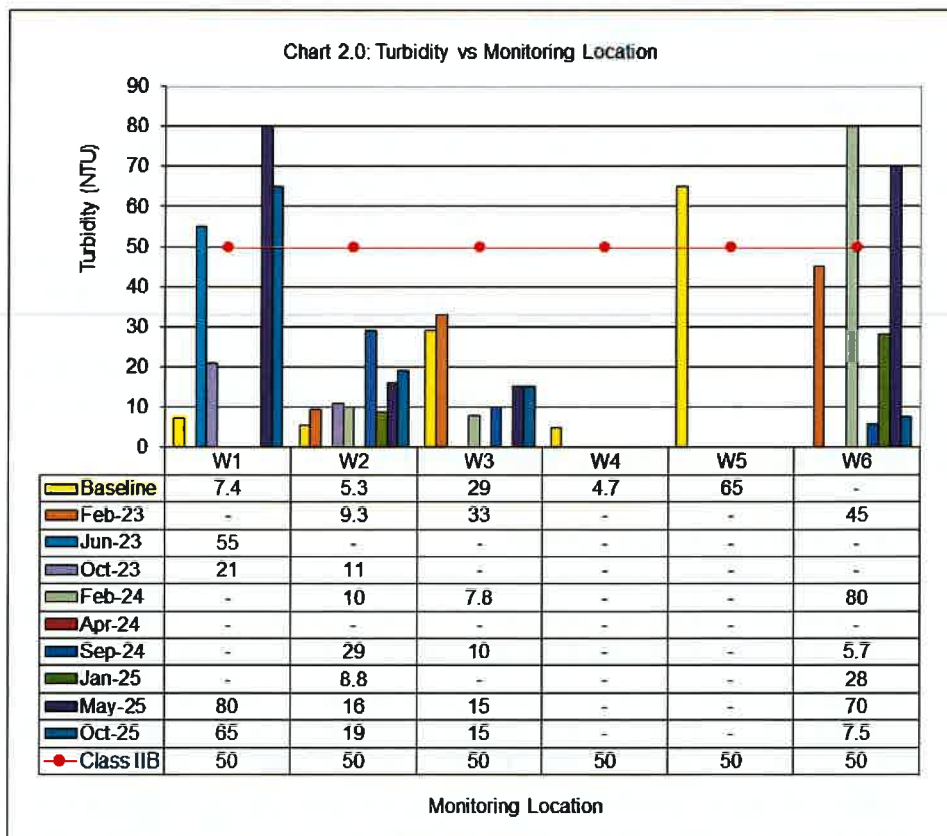
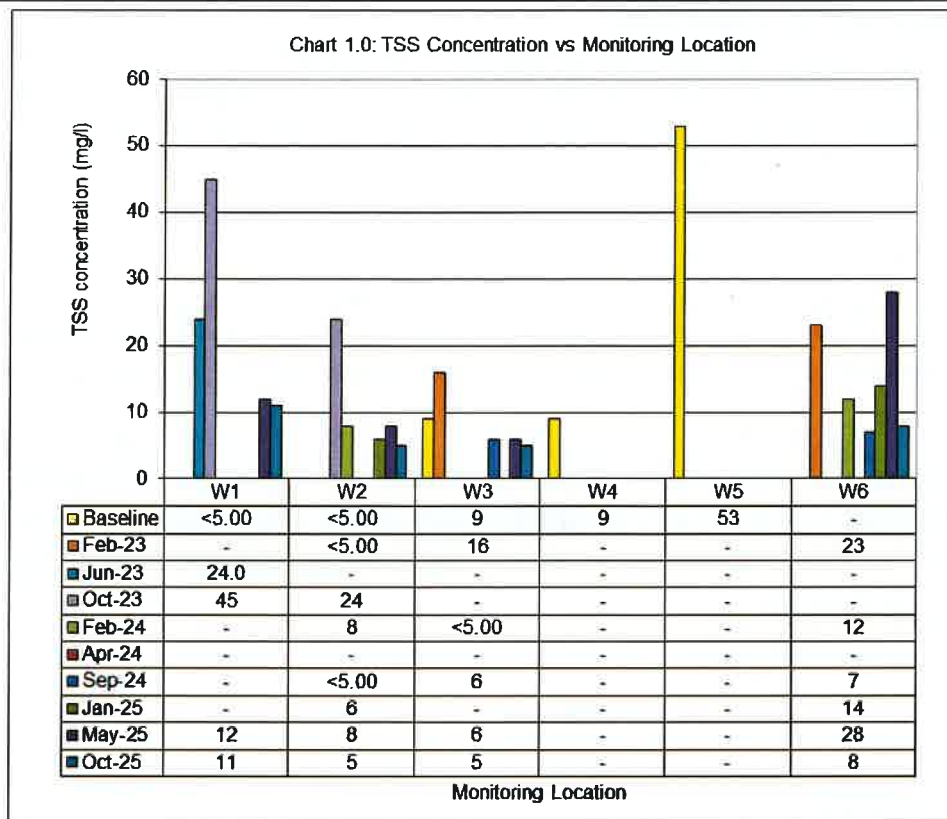
1.4 RECOMMENDED MITIGATION MEASURES

- Construction of sedimentation ponds or drainage system within existing waterway or river reserve is strictly prohibited.
- Vegetation clearing shall be carried out in stages and confined to areas that are essential for Project development. Existing vegetation shall be retained to reduce runoff velocity and act as a natural barrier to minimize soil erosion.
- Re-vegetation or planting of cover crops shall be carried out in tandem with the field establishment works. This is to avoid prolonged and unnecessary exposure of bare ground elements such as rainfall, wind, and surface runoffs.
- Usage of agro chemicals is minimized and strictly adhered to the rules and regulations as stipulated under the Pesticides Act 1974. Disposal of agrochemicals such as pesticides and herbicides into existing streams or any waterway is strictly prohibited.

The historical water quality results are presented in **Chart 1.0 to 4.0**.

¹ National Water Quality Standards for Malaysia, Malaysia Environmental Quarry Report (DOE, 2006)

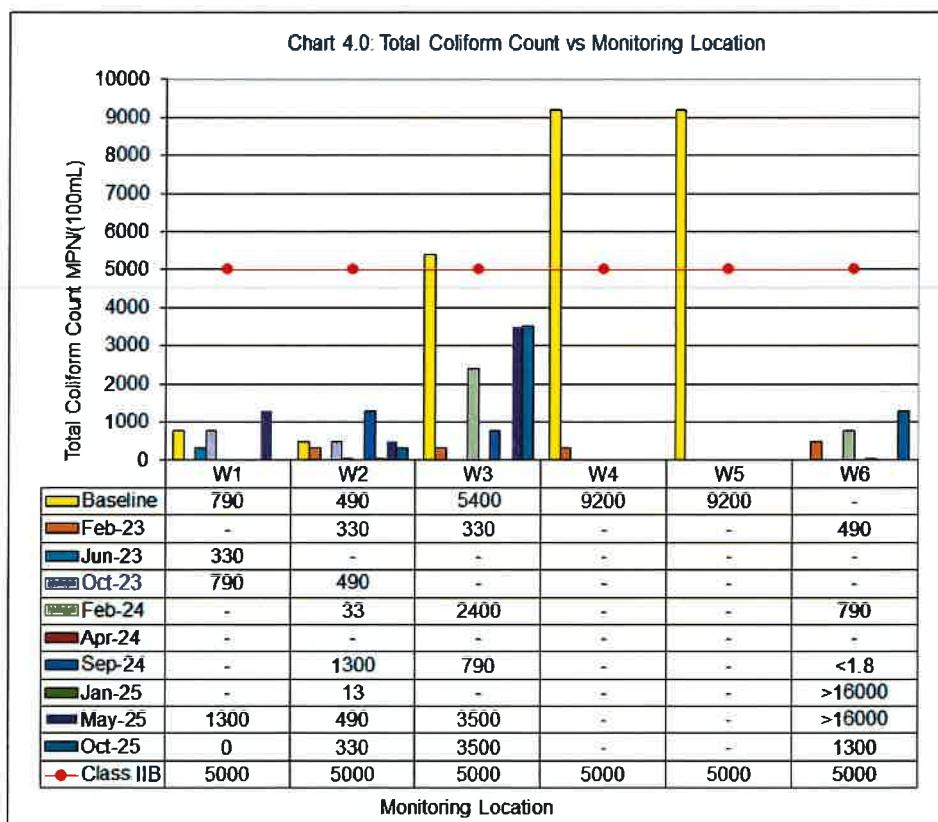
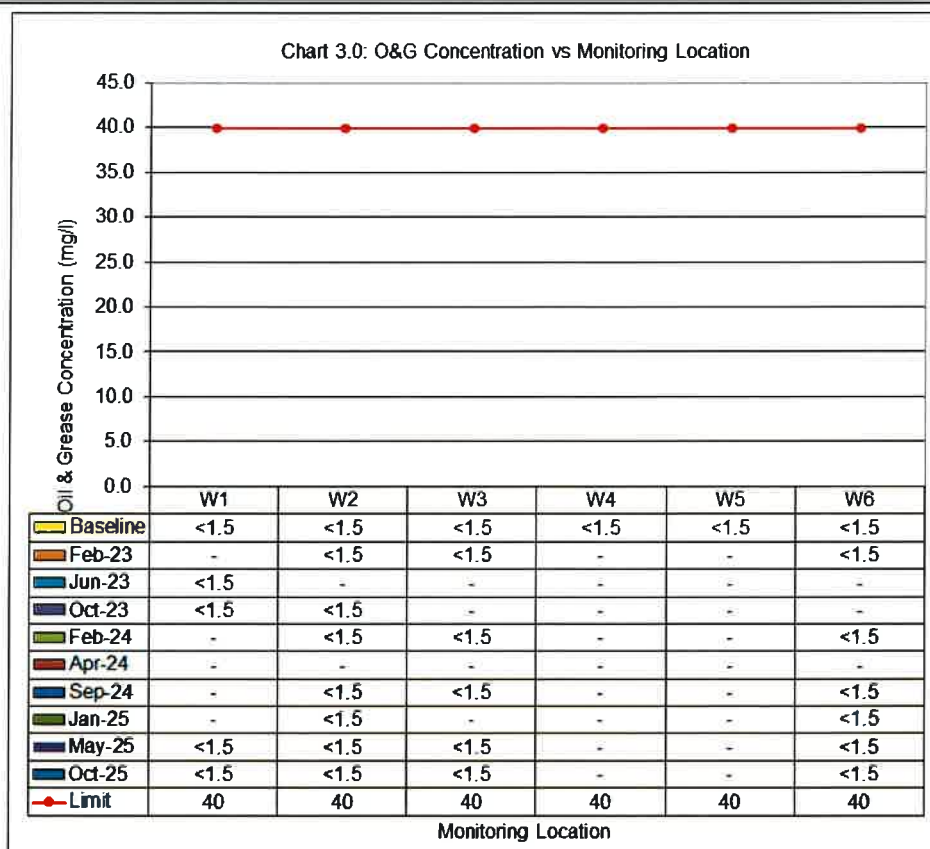
HISTORICAL SURFACE WATER QUALITY GRAPHICAL REPRESENTATION

**Note:**

* Baseline data extracted from EIA for Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah.

(-) denotes No Sample Available

HISTORICAL SURFACE WATER QUALITY GRAPHICAL REPRESENTATION

**Note:**

* Baseline data extracted from EIA for Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah.

(-) denotes No Sample Available



APPENDIX C

Water Quality Test Reports
National Water Quality Standards for Malaysia (NWQSM)





Test Report

Not for Advertisement Purposes

Customer :	Gerak Saga Sdn Bhd	Lab No. :	CK/ML405/5450/25
	L-70-7, KK Times Square,	Type (No.) of Sample :	River Water (4)
	Off Coastal Highway,	Date Received :	16 th October 2025
	88100 Kota Kinabalu, Sabah	Date of Analysis Commenced :	16 th October 2025
		Date of Report :	21 st October 2025
		Project Code :	CK/MO411/1197/25

Lab No.:	5450-1	5450-2	Test Method	*Standard Limit
Parameter(s)	W1 Date: 13/10/25 Time: 4.04 pm	W2 Date: 13/10/25 Time: 4.58 pm		
Total Coliform Count MPN/100ml, 35±0.5°C/48 h	>1.6 X 10 ⁴	3.3 x 10 ²	APHA 9221 B, 2023	5,000

Lab No.:	5450-3	5450-4	Test Method	*Standard Limit
Parameter(s)	W3 Date: 13/10/25 Time: 4.04 pm	W6 Date: 13/10/25 Time: 6.06 pm		
Total Coliform Count MPN/100ml, 35±0.5°C/48 h	3.5 x 10 ³	1.3 x 10 ³	APHA 9221 B, 2023	5,000

**Class IIB of Interim National Water Quality Standards Malaysia (INWQM)*

Remarks: Sample information (sampling location, date and time) is provided by project team

Exceed holding time upon receipt and result(s) reported may be influenced by the variation.

----- End -----

ANIS IDAYU BINTI ZAKARIA
B. Sc. (Hons)
MJMM0152
SENIOR FOOD TECHNOLOGIST



Note:

1. This Test Report shall not be reproduced, except in full, without the approval of the laboratory.
2. The above result(s) apply to the sample(s) as received.
3. The above result(s) relate only to the sample tested.





Test Report

Not for Advertisement Purposes

Customer : Gerak Saga Sdn Bhd
L-70-7, KK Times Square,
Off Coastal Highway,
88100 Kota Kinabalu, Sabah

Lab No. : CK/CL405/5449/25
Type (No.) of Sample : River Water (4)
Date Received : 16th October 2025
Date of Report : 30th October 2025
Project Code : CK/MO411/1197/25

Lab No.:	5449-1	5449-2			
Parameter(s)	W1 Date: 13/10/25 Time: 4.04 pm	W2 Date: 13/10/25 Time: 4.58 pm	<u>Date of Analysis</u>	<u>Test Method</u>	<u>**Standard Limit</u>
*Turbidity, NTU	65	19	21/10/2025	APHA 2130 B, 2023	50
Total Suspended Solids, mg/L	11.0	5.0	27/10/2025	APHA 2540 D, 2023	50
Oil & Grease, mg/L	<1.5	<1.5	25/10/2025	APHA 5520 B, 2023	N

Lab No.:	5449-3	5449-4			
Parameter(s)	W3 Date: 13/10/25 Time: 4.04 pm	W6 Date: 13/10/25 Time: 6.06 pm	<u>Date of Analysis</u>	<u>Test Method</u>	<u>**Standard Limit</u>
*Turbidity, NTU	15	7.5	21/10/2025	APHA 2130 B, 2023	50
Total Suspended Solids, mg/L	5.0	8.0	27/10/2025	APHA 2540 D, 2023	50
Oil & Grease, mg/L	<1.5	<1.5	25/10/2025	APHA 5520 B, 2023	N

**Class IIB of Interim National Water Quality Standards Malaysia (INWQM)

Remarks: Sample information (sampling location, date and time) is provided by project team

*Exceed holding time upon receipt and result(s) reported may be influenced by the variation

End

Gloria
ChM. HO LI SIN
B. Sc. (Hons)
MMIC (5196/7297/16/19) (130904-U)
SENIOR CHEMIST



Note:

1. This Test Report shall not be reproduced, except in full, without the approval of the laboratory.
2. The above result(s) apply to the sample(s) as received.
3. The above result(s) relate only to the sample tested.



NATIONAL WATER QUALITY STANDARDS FOR MALAYSIA

Parameters	Unit	Classes					
		I	IIA	IIB	III	IV	V
Ammoniacal-N.	mg/l	0.1	0.3	0.3	0.9	2.7	>2.7
BOD	mg/l	1	3	3	6	12	>12
COD	mg/l	10	25	25	50	100	>100
DO	mg/l	7.0	5.0 – 7.0	5.0 – 7.0	3.0 – 5.0	<3.0	<1.0
pH		6.5 – 8.5	6.0 – 9.0	6.0 – 9.0	5.0 – 9.0	5.0 – 9.0	-
Colour	TCU	15	150	150	-	-	-
Elec. Cond*	µS/cm	1000	1000	-	-	6000	-
Floatables		N	N	N	-	-	-
Odour		N	N	N	-	-	-
Salinity*	%	0.5	1	-	-	2	-
Taste		N	N	N	-	-	-
Tot. Diss. Sol.*	mg/l	500	1000	-	-	4000	-
Tot. Susp. Sol.	mg/l	25	50	50	150	300	>300
Temperature	°C	-	Normal±2	-	Normal±2	-	-
Turbidity	NTU	5	50	50	-	-	-
F. Coliform**	counts/100ml	10	100	400	5000 (20000) ^a	5000 (20000) ^a	-
Total Coliform	counts/100ml	100	5000	5000	50000	50000	>50000

N = No visible floatable material / debris; or no objectionable odour; or no objectionable taste.

* = Related parameters, only one recommended for use

** = Geometric mean

± = Maximum not to be exceeded

CLASS USES

- I represent water body of excellent quality. Standards are set for the conservation of natural environment in its undisturbed state. Water bodies such as those in the national park areas, fountainheads, and in high land and undisturbed areas come under this category where strictly no discharge of any kind is permitted. Water bodies in this category meet the most stringent requirements for human health and aquatic life protection.
- IIA / IIB represents water bodies of good quality. Most existing raw water supply sources come under this category. In practice, no body contact activity is allowed in this water for prevention of probable human pathogens. There is a need to introduce another class for water bodies not used for water supply but of similar quality which may be referred to as **Class IIB**. The determination of **Class IIB** standard is based on criteria for recreational use and protection of sensitive aquatic species.
- III is defined with the primary objective of protecting common and moderately tolerant aquatic species of economic value. Water under this classification may be used for water supply with extensive / advance treatment. This class of water is also defined to suit livestock drinking needs.
- IV defines water quality required for major agricultural irrigation activities which may not cover minor applications to sensitive crops.
- V represents other waters which do not meet any of the above uses.