

GERAK SAGA SDN BHD

L-70-7, KK Times Square, Off Jalan Coastal, 88100, Kota
Kinabalu, Sabah

TEL: 088 – 438 021 FAX: 088 – 486241

ENVIRONMENTAL MONITORING AND COMPLIANCE AUDIT REPORT

FOR

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

1ST REPORT OF YEAR 2019

APRIL	AUGUST	DECEMBER
✓		

AEC Ref. No. : JPAS/PP/15/600-1/01/3/60(36)

Report Reference : CK/MO411/1197-1/19

Date of Report : 21st August 2019



 **CHEMSAIN KONSULTANT SDN BHD** (130904-U)

 Environment

 Engineering

 Information Management

 Occupational Safety & Health

 On-site Sampling & Testing

 Chemical & Microbiological Laboratory Services

 Human Resource Development / Training

GERAK SAGA SDN BHD

ENVIRONMENTAL MONITORING AND COMPLIANCE AUDIT REPORT

1.0 Introduction

The Project site covers an area of approximately 6,467 Ha comprising the 6,270 Ha Bengkoka Forest Reserve and the 197 Ha Tambalugu Forest Reserve. For operational purposes, the two forest reserves will be managed as a single Forest Management Unit (FMU) and will be divided into 4 coupes. Coupes 1-3 (Bengkoka) and Coupe 4 (Tambalugu). The Project Proponent holds the license for management operation in both forest for Industrial Tree Plantation (TPP).

1.1 Monitoring Information

Project Title	: Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah		
Monitoring Period	: January - April 2019		
Date of Monitoring	Compliance Audit	:	16 th - 17 th April 2019
	Water Sampling	:	16 th - 17 th April 2019
EIA Consultant	Chemsain Konsultants Sdn. Bhd.		

1.2 Project Proponent Information

Project Proponent	: Gerak Saga Sdn. Bhd.		
Contact Person	: Mr. Christopher Garside		
Tel. No.	: 088 – 381 277 / 278		
Fax No.	: -		
Environmental Officer	: Ms. Wilvia Olivia William		
Contact No.	: 016 – 832 7158		
E-mail	: –		

1.3 Post-EIA Consultant Information

Post-EIA Consultant	: Chemsain Konsultant Sdn. Bhd.		
Tel. No.	Office	:	088 – 381 277 / 278
	Mobile	:	019 – 812 0808
Fax No.	: 088 – 381 280		
Email	: valentine.abbie@chemsain.com		

1.4 Project Status

Percentage Completion :

Activities	Percentage (%)
Clearing and Planting	On-going on Coupe 1 and 3.

Chronology of Events :

Table 1.0: Chronology of Events

No.	Event	Date
1.0	Signing of AEC Ref.: JPAS/PP/15/600-1/01/3/18	23 rd October 2007

2.0 OBJECTIVE

The Environmental Monitoring and Compliance Audit (EMCA) is a requirement by the Environmental Protection Department (EPD) and to be carried out on quarterly basis, and reported in accordance to 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 (36) dated 1st November 2017

3.0 MONITORING LOCATIONS

Designated monitoring and sampling location are shown in **Figure 1.0** with details tabulated in **Table 2.0**.

Table 2.0: Environmental Monitoring Locations

Monitoring Component	Key	GPS Coordinates (Datum: WGS 84)	Location Description
Water Quality	W1	N 06° 51' 18.9" E 117° 06' 41.1"	Unnamed stream downstream of Bengkoka Forest Reserve at Kg. Gumpa
	W2	N 06° 50' 40.6" E 117° 09' 18.6"	Sg. Bongkol of Safoda dam within Bengkoka Forest Reserve
	W3	N 06° 50' 40.1" E 117° 10' 38.2"	Sg. Kakarangan downstream of Bengkoka Forest Reserve
	W4	N 06° 51' 10.4" E 117° 08' 52.6"	Sg. Kisorong within Bengkoka Forest Reserve
	W5	N 06° 52' 39.3" E 117° 09' 49.8"	Sg. Malubang within Bengkoka Forest Reserve

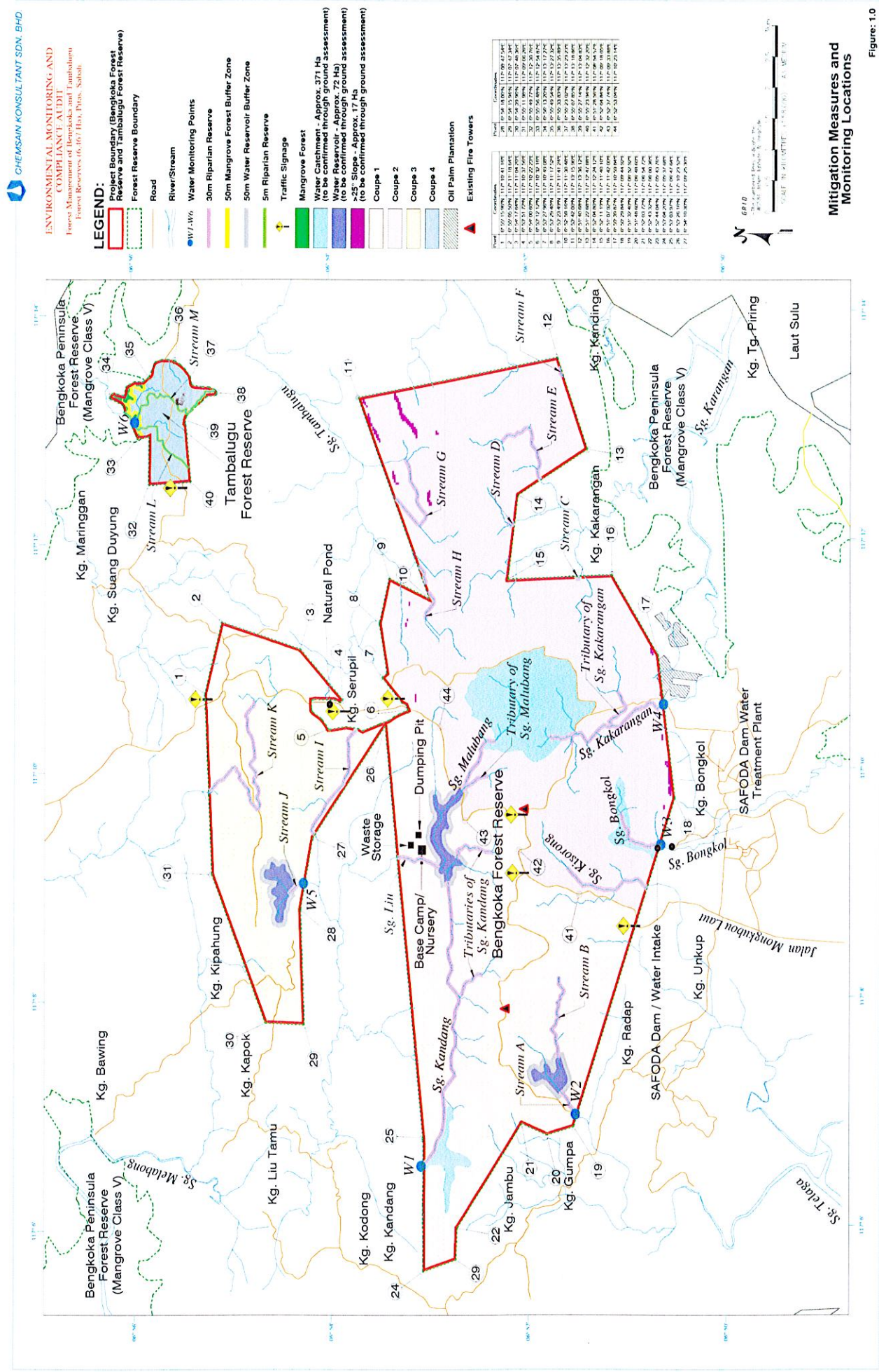


Figure 1.0: Monitoring Locations Map.

4.0 COMPLIANCE STATUS, COMMENTS & RECOMMENDATIONS

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 : 1st November 2017

Penyedia laporan pematuhan ini : Chemsain Konsultant Sdn. Bhd.

Tempoh diliputi oleh laporan ini : January - April 2019

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Recommendations
5.1	<u>Hakisan Tanah dan Pemendapan Kelodak</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	Refer Appendix D for project demarcation plan.	-	-
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	- The project area was demarcated with signage and pegs as observed during the site visit. - The Project Proponent were advised to ensure that the area was demarcated accordingly.	1	

iii	Semua tanda sempadan tapak projek hendaklah tidak ditimbus, dihalang, dirosakkan atau diganggu daripada kedudukan asal.	Comply	Refer to the comments in AEC 5.1.1 (ii).	-	-
iv	Aktiviti perladangan hutan adalah tidak dibenarkan 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	There is no development activity was carried out at water intake point and water catchment as observed during the site visit.	4,5	-
v	Zon penanaman dengan kelebaran tidak kurang 50 meter hendaklah disediakan di sempadan kawasan projek yang bersempadan dengan Hutan Simpan Bengkoka dan ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	50 meters buffer zone area was available near the Bengkoka Forest Reserves area and were excluded from the Project development.	2,3	-
vi	Sebarang aktiviti perladangan hutan tidak dibenarkan dalam kawasan zon penanaman.	Comply	Refer to the comments in AEC 5.1.1 (v).	2	-
vii	Sebarang aktiviti perladangan hutan tidak dibenarkan dalam kawasan berkecukupan 25 darjah atau lebih sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	There were no signs of any activities conducted within the steep protection area ($\geq 25^\circ$ slope area) as observed during the site visit.	-	-

viii	Sempadan kawasan tadahan air, takungan air dan "water intake point", zon penanaman dan kawasan berkecukupan 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	Water intake point, water catchment, buffer zone and steep area were demarcated using pegs and signage as observed during the site visit.	1,2,3,4,5	-
5.1.2 Kawalan Pembinaan Jalan					
i	Jalan sedia ada hendaklah digunakan bagi mengurangkan gangguan terhadap tanah.	Comply	Existing road was fully utilized during the site visit.	6	-
ii	Sistem perparitan hendaklah disediakan bagi mengalirkan air keluar dari struktur jalan dan dilencongkan ke kawasan yang mempunyai tumbuhan.	Comply	Earth drainage system were constructed at specific area along the project site.	7	-
iii	Aktiviti pelupusan atau pembuangan bahan tanah berlebihan <u>tidak dibenarkan</u> dalam parit, sungai atau alur air.	Comply	There is no overburden disposed at any natural waterway as observed during the site visit.	-	-
5.1.3 Pembinaan Rumah Pekerja, Kem Pekerja Atau Bengkel					
i	Sebarang aktiviti kerja tanah dan pembersihan kawasan bagi pembinaan rumah pekerja, kem pekerja atau bengkel hendaklah diminimalkan.	Comply	- The staffs' quarters, and contractor's base camp were fully utilised on-site. - No workshop available at the Project site.	9	-

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 tidak dibenarkan dialir terus ke dalam sungai atau alur air.	Comply	Earth drain which diverted towards the vegetated area were provided at the staffs' quarters and contractor's base camp area.	9	-
iii	Kedudukan rumah pekerja atau kem pekerja hendaklah terletak pada jarak mendatar tidak kurang 30 meter dari tebing sungai atau alur air.	Comply	The staffs' quarters and contractor's base camp were located at 30 meters away from any nearest natural waterways.	9	-
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	The location for the facilities were in compliance with the AEC requirement.	9	-

5.1.4 Rehabilitasi Tanah Yang Terdedah				
i	Semua kawasan tanah dan cerun yang terdedah hendaklah distabilkan dan direhabilitasi dengan menanam spesies tumbuhan yang diluluskan oleh Jabatan Perhutanan Negeri Sabah.	Comply	- The Project Proponent assured that cover crops will be planted at the exposed area of the Project site to reduce the risk of soil erosion. - Existing vegetation on the inactive area were retained and remained undisturbed.	12
5.2 Perlindungan Sungai				
i	Sebarang aktiviti pembersihan dan perladangan hutan adalah tidak dibenarkan dalam simpanan sungai sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	There is no development activity carried out at the Riparian Reserve area during the site visit	10,11
ii	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	Riparian Reserved area were demarcated using the signage and poles.	10,11
iii	Sebarang pembinaan rumah pekerja, kem pekerja, bengkel, tandas atau struktur bangunan lain tidak dibenarkan dalam simpanan sungai.	Comply	There were no facilities constructed along the Riparian Reserve area.	10,11
iv	Sebarang penyimpanan bahan minyak atau bahan toksik tidak dibenarkan dalam simpanan sungai.	Comply	There were no Scheduled waste or oily material stored along the Riparian Reserve area during the site visit.	-

V	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	• There were no signs of any overburden, scheduled waste or oily material disposal within the Riparian Reserves area.	10,11	-
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	• There were no signs of any oily / toxic material being disposed into any nearest natural waterways as observed during the site visit.	-	-
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	• According to the Project Proponent, the Scheduled waste generator was in minimal. • Diesel were stored inside skid tank.	13,14	-
iii	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.	Comply	• Refer to the comments in AEC 5.3 (i) . • The diesel skid tank on-site was located at more than 50-meters away from any nearest natural waterways.	13,14	-
iv	Kawasan penyimpanan bahan minyak dan sisa toksik hendaklah disediakan dengan sistem saliran serta perangkap minyak.	Comply	• The diesel skid tank on-site was under construction during the site visit.	13	-

v	Bahan minyak dan sisa toksik tersebut hendaklah dilupuskan mengikut keperluan Peraturan-peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005.	Comply	According to the Project Proponent, the Scheduled Wastes (if any) generated on-site will be brought out by the DOE licensed contractor, Petrojadi Sdn. Bhd.	-	-
5.4	<u>Kawalan Sisa Pepejal Dan Biomass</u>				
i	Sebarang aktiviti pelupusan sisa pepejal dan biomass <u>tidak dibenarkan</u> dalam parit, sungai atau alur air.	Comply	There were no signs of any solid wastes being disposed into any nearest natural waterways as observed during the site visit.	-	-
ii	Kemudahan mengumpul dan mengutip sisa pepejal dan biomass hendaklah disediakan. Lokasi kawasan pengumpulan hendaklah terletak pada jarak mendatar tidak kurang 30 meter dari tebing sungai atau alur air.	Comply	- Garbage bins was provided at the staffs' quarters area. - The facilities were located at more than 30 meters away from any nearest natural waterways.	16	-
iii	Semua sisa pepejal seperti botol, tin, plastik dan besi hendaklah dikumpul secara berasingan dan dikitar semula.	Comply	Recycle bins were provided at the workers quarters area to facilitate solid waste segregation.	15	-
iv	Sekiranya tiada kawasan pelupusan yang sesuai dalam kawasan projek, sisa pepejal dan biomass hendaklah dilupuskan di kawasan yang diluluskan oleh pihak berkuasa tempatan yang berkaitan.	Comply	Refer to the comments in AEC 5.4 (ii).	-	-

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	Toilet with septic tank was available on site to cater any sewage waste.	17,18	-
ii	Sebarang pelepasan atau pelupusan terus sisa kumbahan/sisa cecair <u>tidak dibenarkan</u> dalam sungai atau alur air.	Comply	There is no sign of effluent or sewage discharge into the waterway during the site visit.	-	-
iii	Sebarang effluen kumbahan yang dihasilkan hendaklah mematuhi sekurang-kurangnya Piawai B, Peraturan – Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009.	Comply	Refer to the comments in AEC 5.5 (iii).		-
5.6	<u>Kawalan Kualiti Udara Dan Kebakaran</u>				
i	Pembakaran terbuka adalah <u>tidak dibenarkan</u> .	Comply	The Project Proponent assured that no open burning will be conducted during the Project development activities.	-	-
li	Pelan pengurusan dan pencegahan kebakaran kawasan projek hendaklah disediakan dan dilaksanakan serta satu (1) salinan pelan tersebut hendaklah dikemukakan ke JPAS.	Comply	According to the Project Proponent, they in the midst of preparing the plan and shall be submitted to JPAS once completed.	-	-

5.7 Penghentian Atau Penamatan Projek				
i	Semua struktur binaan yang tidak digunakan hendaklah dibuka secara teratur apabila berlaku penghentian atau penamatan projek tersebut.	Not-Applicable	• The Project is currently on-going.	-
ii	Semua struktur binaan yang didapati tidak selamat atau yang tidak dapat dipastikan selamat hendaklah dibuka.	Not-Applicable	• Refer to the comments in AEC 5.7 (i)	-
iii	Satu Laporan Pematuhan Alam Sekitar dengan format dan kandungan laporan sebagaimana dinyatakan dalam Lampiran 1 hendaklah dikemukakan apabila berlaku penghentian atau penamatan projek tersebut.	Not-Applicable	• Refer to the comments in AEC 5.7 (i)	-

PERAKUAN PAS

Dengan ini saya mengaku telah turut serta dalam audit yang dijalankan oleh perunding alam sekitar dan telah meneliti dan bersetuju dengan isi kandungan Laporan Pematuhan Alam Sekitar bagi projek ini.

Tandatangan : 
 Nama : C. G. K. S. U. D.
 Jawatan : 
 Tarikh : 4/9/19
 Cop Rasmi syarikat :



PERAKUAN PERUNDING ALAM SEKITAR

Dengan ini saya mengaku dan mengesahkan semua kenyataan dan butir-butir dalam Laporan Pematuhan Alam Sekitar yang dikemukakan adalah benar.

Tandatangan : 
 Nama : Valentine Abbie
 Tarikh : 21/8/19
 Cop Rasmi syarikat :

