

# GERAK SAGA SDN BHD

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## ENVIRONMENTAL MONITORING AND COMPLIANCE AUDIT REPORT

For

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

1<sup>st</sup> REPORT OF YEAR 2022

JANUARY - APRIL	MAY - AUGUST	SEPTEMBER - DECEMBER
√		

AEC Ref. No. : JPAS/PP/15/600-1/01/3/60(46)  
Report Reference : CK/MO411/1197-1/22  
Date of Report : 19<sup>th</sup> April 2022



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# 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 6,270 Ha Bengkoka Forest Reserve, and 197 Ha Tambalugu Forest Reserve.

For operational purposes, these two forest reserves are managed as a single Forest Management Unit (FMU) and divided into 4 coupes. Coupes 1-3 (Bengkoka) and Coupe 4 (Tambalugu).

The Project Proponent holds the management - operation - license in both forests for Industrial Tree Plantation (TPP).

### 1.1 Monitoring Information

<b>Project Title</b>	: Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah
<b>EIA Letter Approval Ref.</b>	: JPAS/PP/15/600-1/01/3/60(36) dated 1 <sup>st</sup> November 2017
<b>Monitoring Period</b>	: January – April 2022
<b>Date of Monitoring</b>	: Compliance Audit : 24 <sup>th</sup> February 2022 Water Sampling : 24 <sup>th</sup> February 2022
<b>EIA Consultant</b>	: Chemsain Konsultant Sdn. Bhd.

### 1.2 Monitoring Information

<b>Project Proponent</b>	: Gerak Saga Sdn. Bhd.
<b>Contact Person</b>	: Mr. Guy Thornton
<b>Tel. No.</b>	: 088 – 663 494
<b>Fax No.</b>	: 088 – 662 494
<b>Environmental Officer</b>	: Ms. Wilvia Olivia William
<b>Contact No.</b>	: 019 – 822 6958 (Mobile)
<b>E-mail</b>	: w.william@forestsolutions.com.my

### 1.3 Post-EIA Consultant Information

<b>Post-EIA Consultant</b>	: Chemsain Konsultant Sdn. Bhd.
<b>Tel. No.</b>	: Office : 088 – 381 277 / 278
<b>Fax No.</b>	: 088 – 381 280
<b>Contact Person</b>	: Jessica Malagkas / Masuyana Tabak
<b>Email</b>	: jessica.malagkas@chemsain.com/masuyana.tabak@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 : 1,867.90 Ha  
 Harvested : 2,208.50 Ha

*\*Project progress status as of 18/04/2022.*

### 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 <sup>th</sup> 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 Monitoring and Compliance Audit (EMCA) is a requirement by the Environment Protection Department (EPD) and to be carried out every four (4) months, 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** dated **06<sup>th</sup> 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

### 3.2 Surrounding Environment

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

## 4.0 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 and sampling particulars

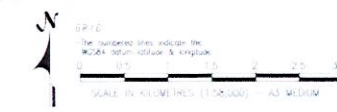
Monitoring Component	Key	GPS Coordinates (Datum: Timbalai)	Location Description
Water Quality	W1	N 06° 51' 18.9" E 117° 06' 41.1"	Unnamed stream downstream of Bengkoka Forest Reserve at Kg. Kandang
	W2	N 06° 50' 40.6" E 117° 09' 18.6"	Unnamed stream downstream of Bengkoka Forest Reserve at Kg. Gumpa.
	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.

**ENVIRONMENTAL IMPACT ASSESSMENT**  
 Forest Management of Bengkoka and Tambalugu  
 Forest Reserves (6,167 Ha), Pitas, Sabah.

**LEGEND:**

- Project Boundary (Bengkoka Forest Reserve and Tambalugu Forest Reserve)
- Forest Reserve Boundary
- Road
- River Stream
- A1/N1 Air & Noise Monitoring Point
- W1/W2 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	117° 50' 15.663"E, 1° 17' 10.411"N	26	117° 54' 18.074"E, 1° 17' 06' 47.547"N
2	117° 50' 50.969"E, 1° 17' 11' 19.849"N	27	117° 54' 15.944"E, 1° 17' 07' 44.367"N
3	117° 51' 17.964"E, 1° 17' 10' 20.219"N	28	117° 54' 16.244"E, 1° 17' 07' 48.287"N
4	117° 51' 51.224"E, 1° 17' 10' 10' 10.101"N	29	117° 54' 16.444"E, 1° 17' 07' 52.207"N
5	117° 52' 00.000"E, 1° 17' 10' 20.219"N	30	117° 54' 16.644"E, 1° 17' 07' 56.127"N
6	117° 52' 12.124"E, 1° 17' 10' 10' 10.101"N	31	117° 54' 16.844"E, 1° 17' 07' 59.947"N
7	117° 52' 24.248"E, 1° 17' 11' 19.849"N	32	117° 54' 17.044"E, 1° 17' 12' 00.767"N
8	117° 52' 36.372"E, 1° 17' 11' 19.849"N	33	117° 54' 17.244"E, 1° 17' 12' 04.687"N
9	117° 52' 48.496"E, 1° 17' 11' 19.849"N	34	117° 54' 17.444"E, 1° 17' 12' 08.607"N
10	117° 52' 54.596"E, 1° 17' 11' 19.849"N	35	117° 54' 17.644"E, 1° 17' 12' 12.527"N
11	117° 53' 00.696"E, 1° 17' 11' 19.849"N	36	117° 54' 17.844"E, 1° 17' 12' 16.447"N
12	117° 53' 06.796"E, 1° 17' 11' 19.849"N	37	117° 54' 18.044"E, 1° 17' 12' 20.367"N
13	117° 53' 12.896"E, 1° 17' 12' 04.687"N	38	117° 54' 18.244"E, 1° 17' 12' 24.287"N
14	117° 53' 18.996"E, 1° 17' 12' 08.607"N	39	117° 54' 18.444"E, 1° 17' 12' 28.207"N
15	117° 53' 25.096"E, 1° 17' 12' 12.527"N	40	117° 54' 18.644"E, 1° 17' 12' 32.127"N
16	117° 53' 31.196"E, 1° 17' 12' 16.447"N	41	117° 54' 18.844"E, 1° 17' 12' 36.047"N
17	117° 53' 37.296"E, 1° 17' 12' 20.367"N	42	117° 54' 19.044"E, 1° 17' 12' 39.967"N
18	117° 53' 43.396"E, 1° 17' 12' 24.287"N	43	117° 54' 19.244"E, 1° 17' 12' 43.887"N
19	117° 53' 49.496"E, 1° 17' 12' 28.207"N	44	117° 54' 19.444"E, 1° 17' 12' 47.807"N
20	117° 53' 55.596"E, 1° 17' 12' 32.127"N	45	117° 54' 19.644"E, 1° 17' 12' 51.727"N
21	117° 54' 01.696"E, 1° 17' 12' 36.047"N	46	117° 54' 19.844"E, 1° 17' 12' 55.647"N
22	117° 54' 07.796"E, 1° 17' 12' 39.967"N	47	117° 54' 20.044"E, 1° 17' 12' 59.567"N
23	117° 54' 13.896"E, 1° 17' 12' 43.887"N	48	117° 54' 20.244"E, 1° 17' 13' 03.487"N
24	117° 54' 19.996"E, 1° 17' 12' 47.807"N	49	117° 54' 20.444"E, 1° 17' 13' 07.407"N
25	117° 54' 26.096"E, 1° 17' 12' 51.727"N	50	117° 54' 20.644"E, 1° 17' 13' 11.327"N
26	117° 54' 32.196"E, 1° 17' 12' 55.647"N		
27	117° 54' 38.296"E, 1° 17' 12' 59.567"N		
28	117° 54' 44.396"E, 1° 17' 13' 03.487"N		
29	117° 54' 50.496"E, 1° 17' 13' 07.407"N		
30	117° 54' 56.596"E, 1° 17' 13' 11.327"N		
31	117° 55' 02.696"E, 1° 17' 13' 15.247"N		
32	117° 55' 08.796"E, 1° 17' 13' 19.167"N		
33	117° 55' 14.896"E, 1° 17' 13' 23.087"N		
34	117° 55' 20.996"E, 1° 17' 13' 27.007"N		
35	117° 55' 27.096"E, 1° 17' 13' 30.927"N		
36	117° 55' 33.196"E, 1° 17' 13' 34.847"N		
37	117° 55' 39.296"E, 1° 17' 13' 38.767"N		
38	117° 55' 45.396"E, 1° 17' 13' 42.687"N		
39	117° 55' 51.496"E, 1° 17' 13' 46.607"N		
40	117° 55' 57.596"E, 1° 17' 13' 50.527"N		
41	117° 56' 03.696"E, 1° 17' 13' 54.447"N		
42	117° 56' 09.796"E, 1° 17' 13' 58.367"N		
43	117° 56' 15.896"E, 1° 17' 14' 02.287"N		
44	117° 56' 21.996"E, 1° 17' 14' 06.207"N		
45	117° 56' 28.096"E, 1° 17' 14' 10.127"N		
46	117° 56' 34.196"E, 1° 17' 14' 14.047"N		
47	117° 56' 40.296"E, 1° 17' 14' 17.967"N		
48	117° 56' 46.396"E, 1° 17' 14' 21.887"N		
49	117° 56' 52.496"E, 1° 17' 14' 25.807"N		
50	117° 56' 58.596"E, 1° 17' 14' 29.727"N		



**Proposed Mitigation Measures and Monitoring Locations**

Figure: 6.2.1

## 5.0 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	: 1 <sup>st</sup> November 2017
Penyedia laporan pematuhan ini	: Chemsain Konsultant Sdn. Bhd.
Tempoh diliputi oleh laporan ini	: January – April 2022

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
<b>5.1</b>	<b><u>Kawalan Tapak Pembangunan</u></b>				
<b>5.1.1</b>	<b><u>Kawalan Kawasan Perladangan Hutan</u></b>				
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	Project Demarcation Plan was submitted to EPD via the 1 <sup>st</sup> EMCAR of 2019 as <b>Appendix D</b> .	-	-
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	Signboard, entrance (barrier) gate, red-painted trees and red-painted wooden pegs in place sighted demarcating Project coupes and blocks.	Plate 3 to 7 and 10	-
iii.	Semua tanda sempadan tapak projek hendaklah tidak ditimbus, dihalang,	Comply	Signboard and entrance (barrier) gate sighted in good condition during the site visit.	Plate 3 to 7	-



AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
	<i>dirosakkan atau diganggu daripada kedudukan asal.</i>				
iv	<i>Aktiviti perladangan hutan adalah <b>tidak dibenarkan</b> 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.</i>	Comply	<ul style="list-style-type: none"> <li>Project development sighted carried out via coupes as per <b>Figure 1.0</b>.</li> <li>According to the Project Proponent, water catchments, water reservoir, and water intake points were excluded from project development.</li> <li>In addition, the Project Proponent has conducted enrichment planting using local species trees along the Riparian Reserve of the water reservoir area.</li> </ul>	<i>Plate 1 and 2</i>	-
v	<i><b>Zon penampungan</b> dengan kelebaran tidak kurang <b>50 meter</b> 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.</i>	Comply	50m buffer zone of the Bengkoka Peninsula Mangrove Forest Reserve (Class V) sighted in place during the visit.	<i>Plate 7</i>	-
vi	<i>Sebarang aktiviti perladangan hutan <b>tidak dibenarkan</b> dalam kawasan zon penampungan.</i>	Comply	The 50m buffer zone sighted excluded from Project development during the visit.	<i>Plate 7</i>	-
vii	<i>Sebarang aktiviti perladangan hutan <b>tidak dibenarkan</b> dalam kawasan berkecurunan 25 darjah atau lebih</i>	Comply	Development within the steep (protected) area ( $\geq 25^\circ$ slopes) was not sighted.	<i>Plate 8 to 9</i>	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
	<p>sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.</p>				
viii	<p>Sempadan kawasan tadahan air, takungan air dan "water intake point", zon penampungan dan kawasan berkecurunan 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.</p>	Comply	<p>Signboards sighted in place demarcating onsite buffer zone.</p>	Plate 9	-
<b>5.1.2</b>	<b><u>Kawalan Pembinaan Jalan</u></b>				
i	<p>Pembinaan jalan hendaklah dikawal dengan meminimalkan aktiviti kerja tanah.</p>	Comply	<ul style="list-style-type: none"> <li>No earthwork activity for access road construction sighted during the visit.</li> <li>Existing access roads were fully utilized.</li> </ul>	Plate 11	
ii	<p>Jalan sedia ada hendaklah digunakan bagi mengurangkan gangguan terhadap tanah.</p>	Comply	<p>Refer to the comments in AEC 5.1.2 (i).</p>	Plate 11	-
iii	<p>Sistem perparitan hendaklah disediakan bagi mengalirkan air keluar dari struktur jalan dan dilencongkan ke kawasan yang mempunyai tumbuhan.</p>	Comply	<p>Existing access road sighted equipped with earth drainage, channelling surface runoff towards the nearest vegetated area.</p>	Plate 11	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
iv	Aktiviti pelupusan atau pembuangan bahan tanah berlebihan <b>tidak dibenarkan</b> dalam parit, sungai atau alur air.	Comply	Disposal of overburden into the nearest natural waterways was not sighted.	-	-
<b>5.1.3</b>	<b><u>Pembinaan Rumah Pekerja, Kem Pekerja Atau Bengkel</u></b>				
i	Sebarang aktiviti kerja tanah dan pembersihan kawasan bagi pembinaan rumah pekerja, kem pekerja atau bengkel hendaklah diminimakan.	Comply	<ul style="list-style-type: none"> <li>Workers' quarters, and nursery at the base camp were fully utilized.</li> <li>No workshop sighted constructed within the Project site.</li> <li>According to the Project Proponent, maintenance of Project vehicles were carried out at external workshop.</li> </ul>	Plate 12 to 14	-
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 <b>tidak dibenarkan</b> dialir terus ke dalam sungai atau alur air.	Comply	Workers' quarters and nursery sighted equipped with proper concrete drainage, diverting surface runoffs towards the nearest vegetative area.	Plate 13 and 14	-
iii	Kedudukan rumah pekerja atau kem pekerja hendaklah terletak pada jarak mendatar tidak kurang <b>30 meter</b> dari tebing sungai atau alur air.	Comply	Workers' quarters are located more than 30m away from the nearest natural waterways.	Plate 12	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date				
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	These buildings sited within the Project site are in compliance with the AEC.	-	-				
<b>5.1.4</b>	<b><u>Rehabilitasi Tanah Yang Terdedah</u></b>								
i	Semua kawasan tanah dan cerun yang terdedah hendaklah distabilkan dan direhabilitasi dengan menanam spesies tumbuhan yang diluluskan oleh Jabatan Perhutanan Negeri Sabah.	Comply	<ul style="list-style-type: none"> <li>Cover crops sighted planted on exposed slopes to reduce the risk of soil erosion.</li> <li>Existing vegetation on inactive and idle Project areas were retained and remain undisturbed.</li> </ul>	Plate 8 to 10	-				
<b>5.2</b>	<b><u>Perlindungan Sungai</u></b>								
i	<p>Simpanan sungai berikut hendaklah dilindungi dan ditanda di lapangan:</p> <table border="1"> <thead> <tr> <th>Nama Sungai</th> <th>Simpanan Sungai</th> </tr> </thead> <tbody> <tr> <td>Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai,</td> <td>Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.</td> </tr> </tbody> </table>	Nama Sungai	Simpanan Sungai	Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai,	Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.	Comply	Identified riparian reserve within the project site sighted demarcated with signboards and tree trunks, marked with blue paint.	Plate 15	
Nama Sungai	Simpanan Sungai								
Sungai Kisorong, Sungai Bongkol, Sungai Kakarangan dan anak sungai, Sungai Malubang dan anak sungai,	Sekurang-kurangnya selebar 30 meter pada jarak mendatar dari tebing sungai.								



AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
	<p>Sungai Kandang dan anak sungai, Sungai Liu, sungai A hingga K serta semua sungai yang mempunyai kelebaran 5 meter atau lebih.</p> <p>Sungai L dan M serta semua sungai yang mempunyai kelebaran kurang daripada 5 meter</p> <p>Sekurang-kurangnya selebar 5 meter pada jarak mendatar dari tebing sungai.</p>				
ii	Sebarang aktiviti pembersihan dan perladangan hutan adalah <b>tidak dibenarkan</b> dalam simpanan sungai sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.	Comply	Development within the riparian reserves was not sighted.	Plate 15	-
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).	Plate 15	-
iv	Sebarang pembinaan rumah pekerja, kem pekerja, bengkel, tandas atau struktur bangunan lain <b>tidak dibenarkan</b> dalam simpanan sungai.	Comply	Construction of structures within the riparian reserve was not sighted.	-	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date				
v	Sebarang penyimpanan bahan minyak atau bahan toksik <b>tidak dibenarkan</b> dalam simpanan sungai.	Comply	Storage of oils and toxic material within the riparian reserve were not sighted.	-	-				
vi	Sebarang bahan tanah lebihan, sisa pepejal, sisa biomas, kumbahan, bahan minyak, kimia atau bahan-bahan toksik <b>tidak dibenarkan</b> dilupuskan dalam simpanan sungai.	Comply	Disposal of overburden, biomass or any types of wastes (i.e. sewage, oil and chemical, etc.) along the riparian reserve was not sighted.	-	-				
5.2.1.2	<p>Laporan pemantauan kualiti air juga hendaklah dikemukakan ke JPAS bersama dengan Laporan Pematuhan tersebut.</p> <p>Lokasi dan parameter yang perlu dianalisa adalah seperti berikut:</p> <table border="1"> <thead> <tr> <th>Lokasi</th> <th>Parameter</th> </tr> </thead> <tbody> <tr> <td>Sebagaimana ditunjukkan pada "Figure 6.2.1" dalam Perjanjian Syarat-syarat Alam Sekitar ini.</td> <td>Turbidity, Total Suspended Solid, Oil &amp; Grease, Total Coliform Count.</td> </tr> </tbody> </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	<ul style="list-style-type: none"> <li>Water sampling activities were carried out at locations <b>W1 – W3</b> and <b>W6</b> as per <b>Figure 1.0</b>.</li> <li>As for <b>W4</b> and <b>W5</b>, sampling was not able to be carried out due to road inaccessibility.</li> </ul>	Plate 16 to 19	
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.								
<b>5.3</b>	<b><u>Bahan Minyak Dan Sisa Toksik</u></b>								
i	Bahan minyak dan sisa toksik adalah <b>tidak dibenarkan</b> 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.	Comply	<ul style="list-style-type: none"> <li>Skid tank containing diesel sighted in place.</li> </ul>	Plate	-				

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
	<i>Bekas-bekas penyimpanan tersebut hendaklah dilabel.</i>		<ul style="list-style-type: none"> <li>• Oils were sighted stored in HDPE containers and arranged properly in the oil and lubricant storage room.</li> <li>• Agrochemicals sighted contained in proper containers, labelled and arranged accordingly.</li> <li>• Fertilizer bags sighted stacked properly inside the fertilizer store.</li> </ul>	20, 24, 26 and 28	
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 as well as the fertilizer storage sheds are sheltered from weather exposure, and situated more than 50m away from the nearest natural waterways.	Plate 20, 22, 25 and 27	-
iv	<i>Kawasan penyimpanan bahan minyak dan sisa toksik hendaklah disediakan dengan sistem saluran serta perangkap minyak.</i>	Comply	<ul style="list-style-type: none"> <li>• As for diesel skid tank, it is equipped with an oil trap with the fuel dispensing nozzle affixed just above the containment chamber, filled with sand to prevent oil from seeping directly into the ground.</li> <li>• The generator and, oil and lubricant storage shed sighted equipped with an oil trap in place next to the building.</li> </ul>	Plate 21 and 23	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
v	Bahan minyak dan sisa toksik tersebut hendaklah dilupuskan mengikut keperluan <b>Peraturan-peraturan Kualiti Alam Sekeliling (Buangan Terjadual) 2005.</b>	Comply	According to the Project Proponent, scheduled waste generated onsite will be handled by DOE licensed contractor, Petrojadi Sdn. Bhd.	-	-
<b>5.4</b>	<b><u>Kawalan Sisa Pepejal Dan Biomas</u></b>				
i	Sebarang aktiviti pelupusan sisa pepejal dan biomas <b><u>tidak dibenarkan</u></b> dalam parit, sungai atau alur air.	Comply	Disposal of solid waste and biomass into natural waterways was not sighted.	-	-
ii	Kemudahan mengumpul dan mengutip sisa pepejal dan biomas hendaklah disediakan. Lokasi kawasan pengumpulan hendaklah terletak pada jarak mendatar tidak kurang <b>30 meter</b> dari tebing sungai atau alur air.	Comply	<ul style="list-style-type: none"> <li>Garbage bins sighted provided at the workers' quarters area and near the chemical storage room.</li> <li>Dumping pit is located onsite at more than 30m away from the nearest natural waterways.</li> </ul>	Plate 12, 25 and 30	-
iii	Semua sisa pepejal seperti botol, tin, plastik dan besi hendaklah dikumpul secara berasingan dan dikitar semula.	Comply	Recycling bins provided to facilitate onsite solid waste segregation.	Plate 29	-
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 <b>AEC 5.4 (ii).</b>	-	-



AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
<b>5.5</b>	<b><u>Kawalan Sisa Kumbahan / Sisa Cecair</u></b>				
<i>i</i>	<i>Kemudahan sistem sanitasi dan sistem perawatan kumbahan / sisa cecair hendaklah disediakan di kawasan projek.</i>	Comply	Toilets sited within the base camp equipped with septic tanks.	<i>Plate 31 and 32</i>	-
<i>ii</i>	<i>Sebarang pelepasan atau pelupusan terus sisa kumbahan / sisa cecair <b>tidak dibenarkan</b> dalam sungai atau alur air.</i>	Comply	Direct discharge of sewage into the natural waterways was not sighted.	-	-
<i>iii</i>	<i>Sebarang effluen kumbahan yang dihasilkan hendaklah mematuhi sekurang-kurangnya <b>Piawai B, Peraturan –Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009.</b></i>	Not Applicable	No STP constructed within the project site.	-	-
<b>5.6</b>	<b><u>Kawalan Kualiti Udara Dan Kebakaran</u></b>				
<i>i</i>	<i>Pembakaran terbuka adalah <b>tidak dibenarkan.</b></i>	Comply	<ul style="list-style-type: none"> <li>The Project Proponent assured to adhere to zero open burning policy at all times.</li> <li>Firefighting facilities were provided onsite (i.e. fire depot, fire indicator signage and fire lookout tower).</li> </ul>	<i>Plate 33 to 35</i>	-
<i>ii</i>	<i>Pelan pengurusan dan pencegahan kebakaran kawasan projek hendaklah disediakan dan dilaksanakan serta satu (1) salinan pelan tersebut hendaklah dikemukakan ke JPAS.</i>	Comply	Fire Management and Prevention Plan was attached in the previous report (3 <sup>rd</sup> <b>EMCAR of 2019</b> ) as <b>Appendix C.</b>	-	-

AEC No.	Approved Environmental Conditions	Status	Observations / Comments	Photo No.	Corrective Action and Completion Date
<b>5.7</b>	<b><i>Penghentian Atau Penamatan Projek</i></b>				
<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 <b>AEC 5.7 (i)</b> .	-	-
<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 <b>AEC 5.7 (i)</b> .	-	-


## 6.0 CONCLUSION

### 6.1 Overall Compliance

For the Environmental Compliance period of January - April 2022 for the *Forest Management of Bengkoka and Tambalugu Forest Reserves (6,467 Ha), Pitas, Sabah*, generally complied with the EIA approval conditions, no **non-compliance** was recorded.

### PERAKUAN PAS

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


Tandatangan :   
Nama : **Guy Thornton**  
Jawatan : **Forestry Director**  
Tarikh : **5 May 2022**

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 : **Jessica Malagkas**  
Tarikh : **19 April 2022**  
Cop Rasmi :  
Syarikat



## APPENDIX B

Environmental Monitoring Report





## 1.0 WATER QUALITY ANALYSIS

### 1.1 MONITORING LOCATION

Water sampling was scheduled to be carried out on the 24<sup>th</sup> February 2022 at six (6) monitoring locations, **W1** to **W6** as shown in **Figure 1.0**. However, no sampling was carried out at locations **W4** and **W5** due to sampling sites' inaccessibility during the site visit.

The weather was fine throughout the sampling exercise.

### 1.2 ANALYTICAL RESULTS

Laboratory reports of the sample analyses are presented in **Appendix C**. Results of water quality analysis for monitoring stations **W1**, **W2**, **W3** and **W6** are summarized in **Table 3.0** and compared to the respective limit of **Class IIB of National Water Quality Standards for Malaysia (NWQSM)**.

**Table 3.0: Surface Water Quality Monitoring Results**

Monitoring Location	W1	W2	W3	W6	<sup>1</sup> LIMIT S (Class III)
Monitoring Date/ Sampling Time	24/02/2022 11:20 Hrs	24/02/2022 10:26 Hrs	24/02/2022 09:50 Hrs	24/02/2022 12:27 Hrs	
<b><u>Physical / Chemical Analysis</u></b>					
Total Suspended Solids (TSS), mg/L	11.0	17.0	20.0	29.0	50.0
Turbidity	17	12	50.0	<u>55.0</u>	50.0
Oil & Grease, mg/L	<1.50	<1.50	<1.50	<1.50	40; N
<b><u>Microbiological Analysis</u></b>					
Total Coliform Count (TCC), MPN/100mL	490	7.8	490	<u>5400</u>	5000

Notes: < > Below / above detection limit. NA-Sampling point Not Accessible

<sup>1</sup> National Water Quality Standards for Malaysia. Malaysia Environmental Quarry Report (DOE, 2006)



# HISTORICAL SURFACE WATER QUALITY GRAPHICAL REPRESENTATION

Chart 1.0: TSS Concentration vs Monitoring Locations

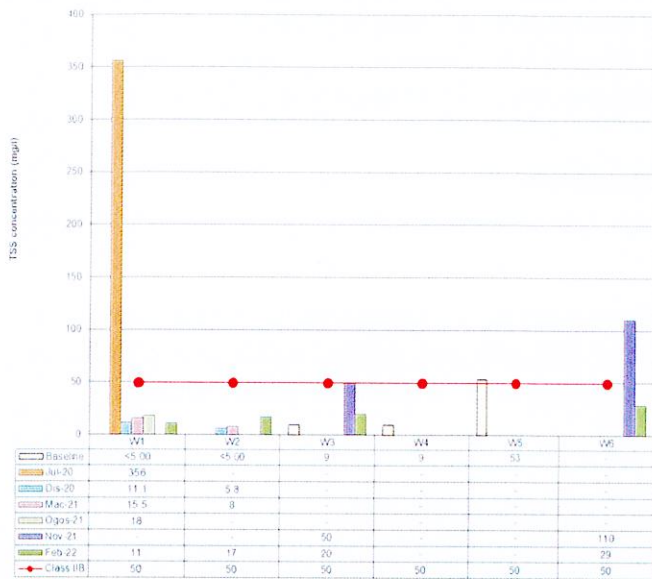


Chart 2.0: Turbidity vs Monitoring Locations

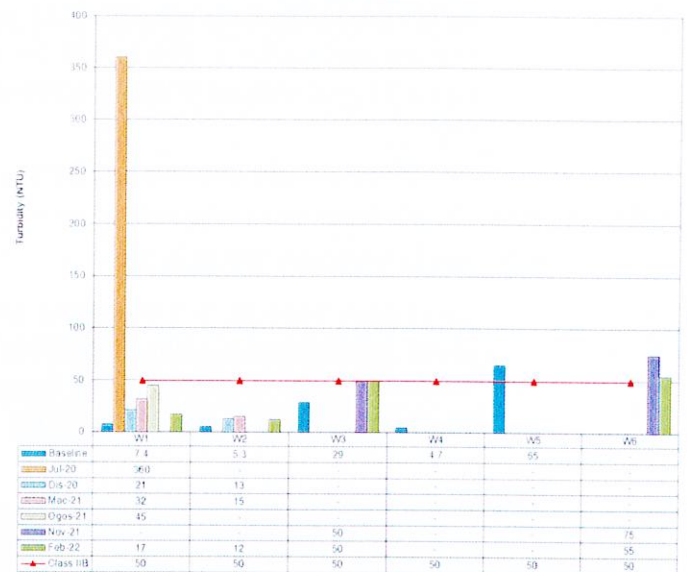


Chart 3.0: O&G Concentration vs Monitoring Locations

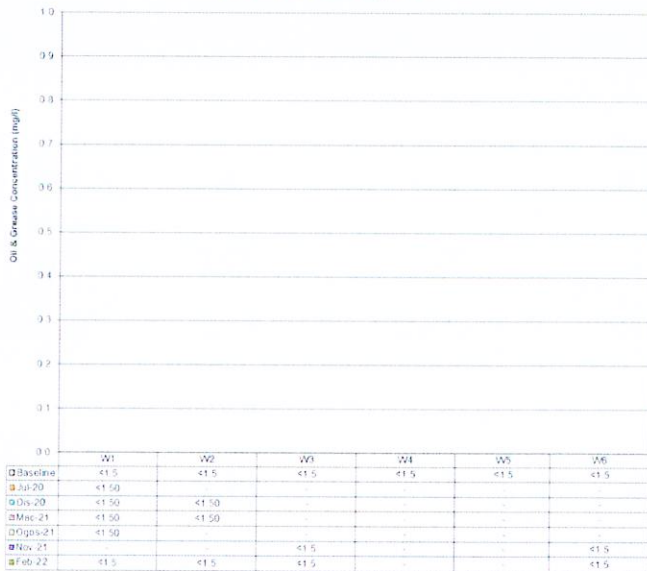
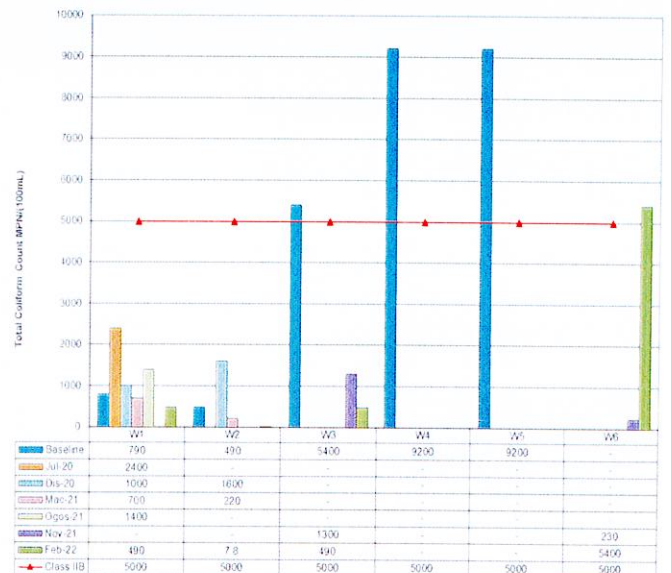


Chart 4.0: Total Coliform Count vs Monitoring Locations



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

## 1.3 DISCUSSION

Surface water quality analysis shows all measured parameters to below the recommended limit of **Class IIB**, except for Turbidity and TCC for **W6**.

Turbidity is the measure of level of cloudiness or opaqueness of the water. The slight increase of the turbidity level of the river water might be contributed by the increased erosion of soil from river banks during rain the day prior the sampling. The released of dirt/soil can settle out across water, giving a cloudy appearance, hence leading to high turbidity level.

TCC is the measure of all the coliform bacteria in the water body, which may determine the presence of human or animal waste in the water. The slight increase of the TCC in



the river water quality might be attributed by faecal matter (of wildlife) washed into the river due to the rain. These were mostly beyond the Project Proponent's control.

#### 1.4 RECOMMENDED MITIGATION MEASURES

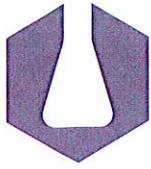
- Construction of sedimentation pond or drainage system within existing waterway or river reserve is strictly prohibited.
- Vegetation clearing shall be carried out in stages and confined to areas that are essential for Project development. Existing vegetation shall be retained to reduce runoff velocity 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-chemical 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.

## APPENDIX C

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







# CHEMSAIN KONSULTANT SDN BHD (130904-U)

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Jalan Kolombong, 88450, Kota Kinabalu, Sabah, Malaysia.

Tel: +60-88-389671 / 381278 Fax: +60-88-381280

Email: laboratory.kk@chemsain.com

www.chemsain.com



## TEST REPORT

\*NOT FOR ADVERTISEMENT PURPOSES\*

Customer : Gerak Saga Sdn Bhd  
L-70-7, KK Times Square,  
Off Jalan Coastal,  
88450 Kota Kinabalu, Sabah

Lab No. : CK/CL405/0938/22  
Type (No.) of Sample : River Water (4)  
Date Received : 25<sup>th</sup> February 2022  
Date of Report : 15<sup>th</sup> March 2022  
Project Code : CK/MO411/1197/22

Lab No.:	0938-1	0938-2	<u>Test Method</u>	<u>* Standard Limit</u>
<u>Parameter(s)</u>	W1 Date: 24/02/22 Time: 11.20 am	W2 Date: 24/02/22 Time: 10.26 am		
Turbidity, NTU	17	12	APHA 2130 B, 2017	50
Total Suspended Solids, mg/L	11.0	17.0	APHA 2540 D, 2017	50
Oil & Grease, mg/L	<1.5	<1.5	APHA 5520 B, 2017	-

Lab No.:	0938-3	0938-4	<u>Test Method</u>	<u>* Standard Limit</u>
<u>Parameter(s)</u>	W3 Date: 24/02/22 Time: 9.50 am	W6 Date: 24/02/22 Time: 12.27 pm		
Turbidity, NTU	50	55	APHA 2130 B, 2017	50
Total Suspended Solids, mg/L	20.0	29.0	APHA 2540 D, 2017	50
Oil & Grease, mg/L	<1.5	<1.5	APHA 5520 B, 2017	-

\* Class IIB National Water Quality Standards Malaysia.

----- End -----



ChM. SHIERLY BIN SUKAIMAN  
B. Sc. (Hons)  
MMIC (4697/6031/11/17)  
SENIOR CHEMIST



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## TEST REPORT

\*NOT FOR ADVERTISEMENT PURPOSES\*

Customer : Gerak Saga Sdn Bhd  
L-70-7, KK Times Square,  
Off Jalan Coastal,  
88450 Kota Kinabalu, Sabah

Lab No. : CK/ML405/0939/22  
Type (No.) of Sample : River Water (4)  
Date Received : 25<sup>th</sup> February 2022  
Date of Report : 03<sup>rd</sup> March 2022  
Project Code : CK/MO411/1197/22

Lab No.:	0939-1	0939-2	<i>Test Method</i>	<i>* Standard Limit</i>
<u>Parameter(s)</u>	W1 Date: 24/02/22 Time: 11.20 am	W2 Date: 24/02/22 Time: 10.26 am		
Total Coliform Count MPN/100ml, 35±0.5°C/48 h	4.9 x 10 <sup>2</sup>	7.8	APHA 9221 B. 2017	5,000

Lab No.:	0939-3	0939-4	<i>Test Method</i>	<i>* Standard Limit</i>
<u>Parameter(s)</u>	W3 Date: 24/02/22 Time: 9.50 am	W6 Date: 24/02/22 Time: 12.27 pm		
Total Coliform Count MPN/100ml, 35±0.5°C/48 h	4.9 x 10 <sup>2</sup>	5.4 x 10 <sup>3</sup>	APHA 9221 B. 2017	5,000

\* Class IIB National Water Quality Standards Malaysia.

----- End -----

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



## 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) <sup>a</sup>	5000 (20000) <sup>a</sup>	-
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.