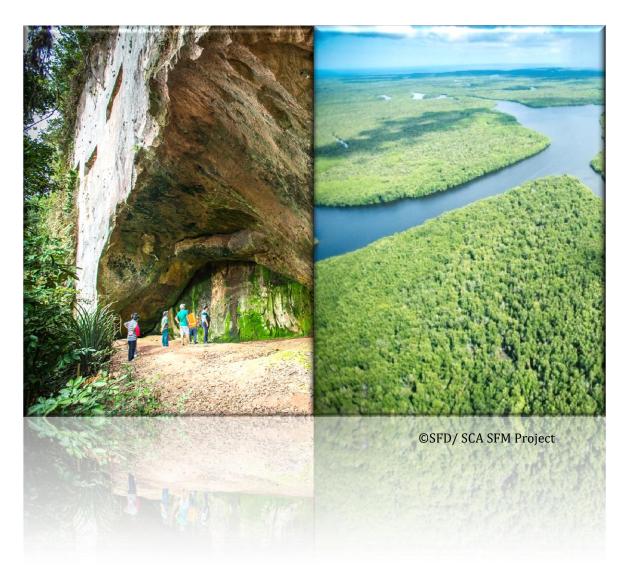
HIGH CONSERVATION VALUE (HCV) MANAGEMENT AND MONITORING PLAN FOR SCA SFM PROJECT



Prepared by SCA SFM Project Date Prepared: 7th June 2017 High Conservation Value (HCV) is areas that encompass exceptional or critical ecological attributes, ecosystem services and social function (eg. endemism, endangered species, refugia). The HCV areas can be classified into 6 categories as listed below.

- **HCV1.** Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species).
- **HCV2.** Forest areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance.
- HCV3. Forest areas that are in or contain rare, threatened or endangered ecosystems.
- **HCV4.** Forest areas that provide basic services of nature in critical situations (e.g. watershed protection, erosion control).
- **HCV5.** Forest areas fundamental to meeting basic needs of local communities (e.g. subsistence, health).
- **HCV6.** Forest areas critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).

The HCV Management and Monitoring Plan encompasses objectives, management target, management and monitoring strategies and verifiers which are crucial to ensure everything in placed. However, the above list and the contents of these documents should not be treated as a final complete document and is subjected to further revision as and when required. This is related to the FCP Interim Standard for Forest Management Certification in Malaysia, especially Principle 9 Criterion 9.4 Indicator 9.4.1

This document serves as a guideline and reference on the **SCA SFM Project** in managing and monitor the particular HCV attributes. It also serves as a management and monitoring plan to ensure that the environment impacts are prioritized and well taken care of in the SFM Project.

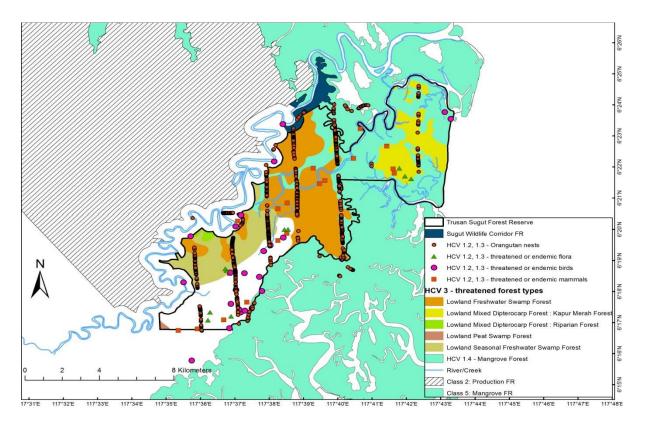


Figure 1: Composite map of HCV 1.2 -1.4 and HCV 3

HIGH CONSERVATION VALUE (HCV) MANAGEMENT AND MONITORING PLAN FOR SCA SFM PROJECT

	HCV 1: BIODIVERSITY VALUES							
General HCV	Specific HCV	Management	Manage	ment Strategies	Operational/Strategic/Threat	Verifier		
Management Objectives	Management objectives	Target	Area	Prescriptions	Monitoring			
HCV 1.1: Protected Area TSFR as protected area entirely including the boundary is maintained and enhanced.	Reduce the number of illegal activities and fire occur within the TSFR *Indicators: 1. Number of encroachment/ tree felling/ illegal hunting/ illegal fishing/ fire locations. 2. Total number of area encroachment/ tree felled/ animals/ mass of fish poached/ area burnt in fire.	Zero encroachment, fire, poaching, illegal felling and NTFP extraction in the TSFR	 Entire TSFR Boundary TSFR (particularly neighbouring estate) Sayoung Mas Sdn. Bhd IJM Plantation Berhad IDC Jadi Sdn. Bhd Hibumas Sdn. Bhd 	 No entry without permission No illegal felling No poaching No NTFP extraction No open burning within the TSFR as well as right nearby/ boundary of TSFR No illegal fishing Signboards to prohibit any illegal activities to be erected and visibly maintained at the strategic location. Awareness sessions to be conducted with local communities and neighbouring plantation owners regarding the protection status of TSFR, applicable laws, forest fire, biodiversity and habitats within. No entry without permission No illegal felling No poaching No open burning within the TSFR as well as right nearby/ boundary of TSFR Signboards to prohibit any illegal activities to be erected and visibly maintained at the strategic location. 	 Periodic monitoring and control to prevent encroachment in the TSFR. Monitoring to be conducted as documented target in AWP as follow: Aerial survey: 6 times per year. Land monitoring to be conducted 2 times per week. III. Sea/river monitoring to be conducted 3 times per week. The Land and Sea/River monitoring report to be prepared and sent to Beluran District Forestry Office for further actions. Honorary Forest Warden act as eyes and ears to TSFR management. The Satellite imagery to be used as a tool to monitor or detect hotspots. 	 Aerial survey report Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran Borang-05: HCV 1.1: Borang Rondaan Darat SFM SCA Hutan Simpan Trusan Sugut Beluran. Stakeholder Consultation meeting minutes. List of stakeholders AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report Satellite imagery monitoring report. 		

			 Sea/River: 1. Sg.Sugut Parai, 2. Sg.Sugut, 3. Sg.Ladang, 4. Sg.Rose, 5. Sg.Cebai, 6. Sg.Bhetumue, 7. Sg.Pintasan, 8. Sg.Juyan 	 Awareness sessions to be conducted with local communities and neighbouring plantation owners regarding the protection status of TSFR, applicable laws, forest fire, biodiversity and habitats within. No entry without permission (riparian reserves) No illegal felling No poaching No NTFP extraction No open burning within the TSFR as well as right nearby/ boundary of TSFR Signboards to prohibit any illegal activities to be erected and visibly maintained at the strategic location. Awareness sessions to be conducted with local communities and neighbouring plantation owners regarding the protection status of TSFR, applicable laws, forest fire, biodiversity and habitats within. 		
HCV 1.2: Threatened and Endangered Species Significant concentration of RTE species are maintained	Maintain the habitat size of RTE species for flora.	Zero poaching, illegal felling and collecting any species which listed as RTE species in TSFR	 Entire TSFR 10 permanent sample plots: 10 x 0.13ha 	 No entry without permission No illegal felling and collecting trees species (except for authorised survey) Signboards of PSPs (No., Coordinate No, etc.), HCV 1.2 and list of RTEs species 	 Monitoring structure and composition within the PSPs to be conducted every 5 years as stated in FMP. Satellite imagery used to detect hotspots 	 AWP, Compliance Report and Quarterly Report Enforcement plan Wildlife monitoring report. Satellite imagery monitoring report.

or enhanced				 within the PSPs to be erected at the strategic locations. The degraded parts of the TSFR to be rehabilitated with planting of endangered local species where suitable (refer to Reuben N. and John S., 2015) 		
	Maintain the habitat size of RTE species of fauna Zero hunting of Orang-Utan within TSFR Maintain and enhance the habitat and Orang-Utan food trees within TSFR.		 Entire TSFR 250ha is for Enrichment planting 	 No entry without permission No illegal felling No poaching No NTFP extraction No open burning within the TSFR as well as right nearby/ boundary of TSFR Enrichment planting of fleshy-fruited trees to enrich habitat for RTE species. 	 Patrolling to be conducted to prevent /minimize hunting within TSFR as stated in AWP and enforcement plan. Land monitoring to be conducted 2 times per week. Sea/river monitoring to be conducted 3 times per week. A comprehensive enforcement plan to be implemented to safeguard the fauna HCVs identified (refer WWF-Malaysia,2015, unpublished) The distribution of Orang-Utan to be mapped once in 2 years based on FMP. The population size of Orang-Utan to be monitor 3 times within 10 years based on FMP. 	
HCV 1.3: Endemism Significant concentration of endemic species are maintained or enhanced	Maintain the habitat size of endemic species of flora and fauna Zero hunting of endemic species within TSFR	Zero encroachment, poaching, illegal felling and collecting any species which listed as endemic species in TSFR	Similar to HCV 1.2	Similar to HCV 1.2	Similar to HCV 1.2	 AWP, Compliance Report and Quarterly Report Enforcement plan. Wildlife monitoring report.

HCV 1.4: Critical Temporal Use Similar to HCV 1.1	Similar to HCV 1.1	Zero encroachment, fire, poaching, illegal felling and NTFP extraction particularly within the mangrove area.	 Mangrove area in TSFR Particular riparian/mangrove area: Sg.Sugut Parai Sg.Sugut, Sg.Ladang, Sg.Rose, Sg.Cebai, Sg.Bhetumue, Sg.Pintasan, Sg.Juyan 	 No entry without permission No illegal felling No poaching No NTFP extraction (to obtain <i>Tangar</i>) Signage of HCV and signboards to prohibit any illegal activities, etc.) to be erected at strategic locations. Stakeholder and communities engagement to raise awareness among local communities regarding the important to preserve the forest 	• Similar to HCV 1.1	 AWP, Compliance Report and Quarterly Report Land and Sea/River monitoring report. Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran
		Zero encroachment, fire and poaching	• Caves and cavities	 No entry without permission No illegal felling No poaching Further scientific investigations (archaeologists/ geologists) to be carried out. 	 Patrolling to be conducted to ensure no encroachment Both sites are placed under strict conservation zones until further scientific investigations have been conducted. 	• AWP, Compliance Report and Quarterly Report

	HCV 2: LANDSCAPE-LEVEL FOREST							
General HCV Management Objectives	Specific HCV Management objectives	Management Target	Manage Area	ment Strategies Prescriptions	Operational/Strategic/Threat Monitoring	Verifier		
TSFR as totally protected area entirely including the boundary is maintained and enhanced.	Reduce the number of illegal activities and fire occur within the TSFR *Indicators: 1. Number of encroachment/ tree felling/ illegal hunting/ illegal fishing/ fire locations. 2. Total number of area encroachment/ tree felled/ animals/ mass of fish poached/ area burnt in fire.	Zero encroachment, fire, poaching, illegal felling and NTFP extraction in the TSFR	 Entire TSFR Sugut Wildlife corridor 	 No entry without permission No illegal felling No poaching No NTFP extraction No open burning within the TSFR as well as right nearby/ boundary of TSFR 	• Similar to HCV 1.1	 Aerial survey report Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran Borang-05: HCV 1.1: Borang Rondaan Darat SFM SCA Hutan Simpan Trusan Sugut Beluran. AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report Satellite imagery monitoring report. 		
			• 2000 ha within TSFR for forest restoration	• Enrichment planting to restore forest structure, increase tree diversity and endangered tree species abundance over 8 years which is expected to be done 2024 as stated in AWP	The Satellite imagery to be used as a tool to detect hotspots	 AWP, Compliance Report and Quarterly Report Satellite imagery monitoring report. 		
			• 500 ha within TSFR for forest restorations	• Reforestation planting in severely degraded area over 6 years which is expected to start in 2018 as stated in FMP	• The Satellite imagery to be used as a tool to detect hotspots during the drought period.			

			HCV	3: ECOSYSTEMS		
General HCV			nagement Management Strategies		Operational/Strategic/Threat	
Management Objectives	Management Target objectives	Target	Area	Prescriptions	Monitoring	Verifier
Ecosystem and rich biodiversity in TSFR are maintained and enhanced.	Reduce the number of illegal activities and fire occur within the TSFR	Zero encroachment, fire, poaching, illegal felling and NTFP extraction in the TSFR	Entire TSFR	 No entry without permission No illegal felling No poaching No NTFP extraction No open burning within the TSFR as well as right nearby/ boundary of TSFR 	 Periodic monitoring and control to prevent encroachment in the TSFR. The Satellite imagery to be used as a tool to monitor forest cover as well as to detect hotspots 	 Aerial survey report Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran Borang-05: HCV 1.1: Borang Rondaan Darat SFM SCA Hutan Simpan Trusan Sugut Beluran. AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report Satellite imagery monitoring report.
			• 2000 ha within TSFR for forest restoration	• Enrichment planting to restore forest structure, increase tree diversity and endangered tree species abundance over 8 years which is expected to be done 2024 as stated in AWP	The Satellite imagery to be used as a tool to monitor and detect hotspots	 AWP, Compliance Report and Quarterly Report Satellite imagery monitoring report.
			• 500 ha within TSFR for forest restorations	• Reforestation planting in severely degraded area over 6 years which is expected to start in 2018 as stated in AWP	• The Satellite imagery to be used as a tool to monitor and detect hotspots	

	HCV 4: SERVICES TO NATURE								
General HCV Management Objectives	Specific HCV Management objectives	Management Target	Manage Area	ement Strategies Prescriptions	Operational/Strategic/Threat Monitoring	Verifier			
HCV 4.1: Watershed Protection Watershed area within TSFR is maintained and enhanced.	Maintain the riparian reserves along the 4 major rivers	Zero encroachment, fire, poaching, illegal felling, illegal fishing, trap and other illegal activities which are might contribute water pollutions and NTFP extraction along Sg. Sugut, Sg.Timbang 1, Sg.Timbang 2 and Sg. Parai.	30m buffer zone	 No entry without permission No illegal felling No illegal fishing No poaching No poaching No NTFP extraction No open burning No chemical treatment/application No trap Maintain the natural vegetation along the riparian buffer zone 	 Periodic monitoring and control to prevent encroachment in the TSFR. Sea/River monitoring activities to be conducted based on AWP and enforcement plan. Water monitoring to be conducted yearly basis based on FMP. 	 Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report 			
HCV 4.2: Erosion Control River or streams banks are maintain to prevent soil erosion	Maintain the riparian reserves to prevent soil erosion along the 4 major rivers	Zero encroachment, fire, poaching, illegal felling, illegal fishing, trap and other illegal activities which are might contribute water pollutions and NTFP extraction along Sg. Sugut, Sg.Timbang 1, Sg.Timbang 2 and Sg. Parai.	30m buffer zone	 No entry without permission No illegal felling No illegal fishing No poaching No poaching No NTFP extraction No open burning No chemical treatment/application No trap Maintain the natural vegetation along the riparian buffer zone Enrichment planting to be carried out within the riparian reserves which are degraded due to past encroachment or fire 	 Periodic monitoring and control to prevent encroachment in the TSFR. Sea/River monitoring activities to be conducted based on AWP and enforcement plan. 	 Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report 			

HCV 4.3: Barriers to destructive fires Barriers to destructive fire are maintained and enhance.	Maintain the riparian reserves along the 4 major rivers which are act as barrier to destructive fires	Zero encroachment, fire, poaching, illegal felling, illegal fishing, trap and NTFP extraction along Sg. Sugut, Sg.Timbang 1, Sg.Timbang 2 and Sg. Parai.	30m buffer zone	 No entry without permission No illegal felling No illegal fishing No poaching No nTFP extraction No open burning No chemical treatment/application No trap Maintain the natural vegetation along the riparian buffer zone Enrichment planting to be carried out within the riparian reserves which are degraded due to past encroachment or fire 	 Periodic monitoring and control to prevent encroachment in the TSFR. Sea/River monitoring activities to be conducted based on AWP and enforcement plan. The Satellite imagery to be used as a tool to monitor any encroachments. 	 Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report Satellite imagery monitoring report.
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			HCV 5: BASIC NEE	DS OF LOCAL COMMUNITIES		
General HCV			Manage	ment Strategies	Operational/Strategic/Treat	
Management Objectives	Management objectives	Target	Area	Prescriptions	Monitoring	Verifier
 considered HCV protect the fore ecotourism place Besides, in rece 1. Food Sources a 2. Medicines: Obta 3. Building mater 	7 5 since the comment est for their future ce in future which ent times, it had be nd cooking fuel: of ain medical treatm ials: Government h	nunities are having their generation. In addition, providing employment en observed that comm otain from nearby mark nent at nearby clinic. nas been providing alloc	the communities also sug chance to local communit unities obtain basic needs ets ation of PPRT House as w	important to conserve and gested TSFR to be as an ies. as follow:	• Stakeholder and communities engagement	 Communities and stakeholders meeting minutes. Resolutions List of Stakeholder

			HCV 6: CULTURAL ID	DENTITIES OF LOCAL COMMUNITI	ES	
General HCV Management Objectives	Specific HCV Management objectives	Management Target	Manag Area	gement Strategies Prescriptions	Operational/Strategic/Threat Monitoring	Verifier
Cultural sites in the TSFR are maintained and enhanced	Maintain the area of cultural sites or historical sites	Zero encroachment within the significant HCV 6 area.	Bukit Kumbawan Malawaring	 No entry without permission No illegal felling No poaching No NTFP extraction Signboard to indicate the area as HCV 6 should be erected at strategic place. 	 Periodic monitoring and control to prevent encroachment in the TSFR. The Satellite imagery to be used as a tool to monitor forest cover as well as to detect hotspots. 	 Borang-05: HCV 1.1: Borang Rondaan Darat SFM SCA Hutan Simpan Trusan Sugut Beluran. AWP, Compliance Report and Quarterly Report Communities and stakeholders grievance report Satellite imagery monitoring report.
		Zero violation of law or regulations that have been allocated for Sg. Parai (Tagal System implemented)	Red Zone: 9.6km (within TSFR)	 No entry without permission No illegal felling No poaching No NTFP extraction No harvesting activities allowed As a conservation and fishing competition (Catch and Release) Prior to conduct any activities which are arranged by the Tagal System Committee should be notified to TSFR management for further actions. 	• Periodic monitoring and control to prevent encroachment within the riparian reserves in the TSFR as stated in AWP.	 Land and Sea/River monitoring report Borang-04: HCV 1.1: Rondaan Laut dan Sungai SFM SCA Hutan Simpan Trusan Sugut Beluran Related document to Sg.Parai (Tagal System)
			Yellow Zone: 6.9km	 Harvesting activities allowed only 2 and 3 times per year. No encroachment and fire within the riparian reserves No illegal felling No poaching No NTFR extraction 		

	Green Zone: 6.9km	 Harvesting activities allowed for year-round. No encroachment within the riparian reserves No illegal felling No poaching No NTFR extraction No open burning 		
*Bujang Timah: Known as 200 years-old burial site. The location is outside the Sugut SFM Project area. In terms of ecotourism, further discussion with local communities will be carried out since the place might be an interesting place as well as a strategic location for tourism purposes in future.				