

Ulu Kalumpang-Wullersdorf Sustainable Forest Management Project

Year 2014 was the 8th year for the Sustainable Forest Management Project at Ulu Kalumpang-Wullersdorf. The Conservation Management Plan had been prepared and approved since January 2011 and will end on 31st December 2020. Highlights of activities undertaken in 2014 are based on the Annual Work Plan approved by the Director of Forestry. Provisions approved under RP4 RMK-10 for 2014 totalled RM1,400,000.00 and RM1,500,000.00 as an additional, bringing the overall total to RM2,900,000.00

Restoration activities in this project are an ongoing effort to ensure that the area invaded is recoverable. The main objective of this project is to replant areas that had been encroached to restore the forest structure, ecological functions and biodiversity. The project has successfully restored an area of 1,466.80 hectares since this project was implemented in 2008 with various species of Dipterocarps and Non-Dipterocarp species. It is estimated that the total area which was planned to be restored from 2008 until 2015 was approximately 1,502 hectares and the total area targeted for recovery every year is subject to the allocations approved by the State Government for each year. The remaining area of 2,796 hectares will be restored in The Malaysia Development Plans ahead. Table 24.1 shows the restored area for each forest reserve.

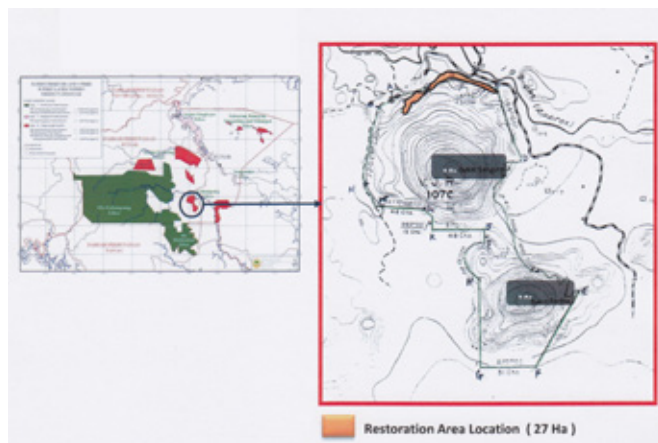
Table 24.1 : Restoration Areas 2008-2014

No	Location	Year of Planting	Planted Area (Ha)
1	Sg. Mantri, 350 Ha. (Ulu Kalumpang FR)	2008	350
2	Sg. Mantri (Ulu Kalumpang FR) – under contract for 250 Ha.	2012 - 2015	250
3	Cenderamata Landau (Ulu Kalumpang FR)	2010	600
4	Mt. Forbes & Mt. Sangster	2012-2014	97.80
5	Mt. Wullersdorf FR	2012-2014	140
6	Sangster (Kalumpang FR, JR107C)	2011	22
7	HS Ulu Kalumpang + HS Madai Baturong VJR107F (Binuang)- ordering Sime Darby Plantation	2013	7
Total area planted as of December 2014			1,466.80
Target to be restored for the whole project area			4,298
Remaining area to be restored			*2,831.20

*Much depending on allocated funds for each management year.

Forest Restoration in Kalumpang VJR107C FR (Mt. Forbes & Mt. Sangster)

This is an area that was awarded to the Company Femac Engineering, for restoration. Unfortunately, the contractor failed to complete due to various problems in the company. The area of this project is 250 hectares and the successfully restored area was only 70.8 hectares representing 29% of the whole area. Once the contract was terminated, there were still 7,479 seedlings in the nurseries, hence successfully planted in that area by the replacement company Alif Enterprise, covering 27 hectares.



Location map of the Restoration Area in Kalumpang Forest Reserve VJR107C (Mt. Forbes & Mt. Sangster).



Contractor worker making the planting hole.

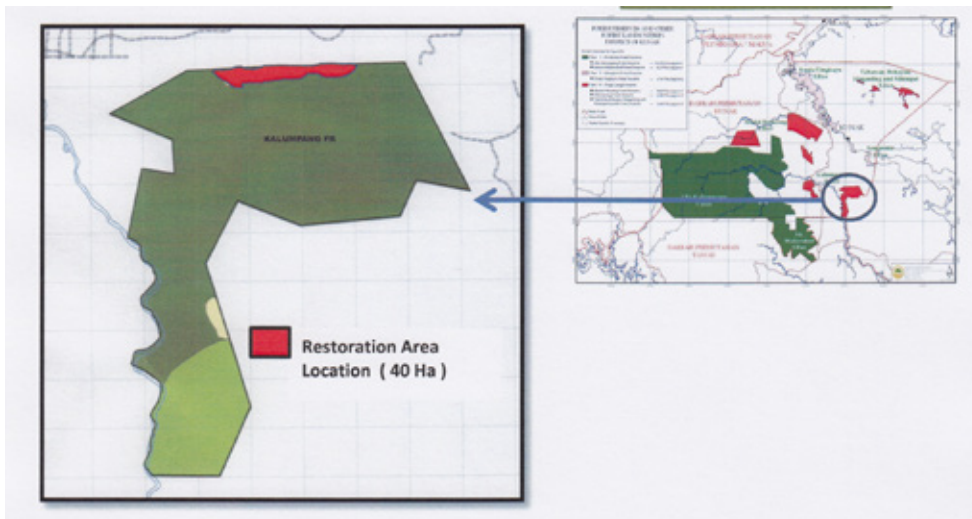


Ketapang seedlings planted in the project area.

Forest Restoration in Kalumpang Forest Reserve VJR107D (Sapang) - 40 Hectares (Newly Restored Area, 2014)

40 hectares of this area was previously invaded and illegally planted with oil palm. Since 2010, the Forestry Department began to destroy 550 hectares of oil palm grown illegally in the reserve. By the end of 2013, contractors who were awarded the contract to restore the area, Pertanian Kondowoi Am, managed to destroy 266.10 hectares. This project has been

suspended for almost a year because of social issues previously. Of the 550 hectares, 110 hectares have been planted by the contractor Izza Enterprise in 2013, while 40 hectares were planted in October 2014 by the same contractor. Most species cultivated were Batai, Talisai and Ketapang. The species were selected for fast growth and easy access to plant materials. Ketapang is more durable and less attractive as food for wild animals compared with Batai species. Both species are appropriate and can grow and live in open areas.



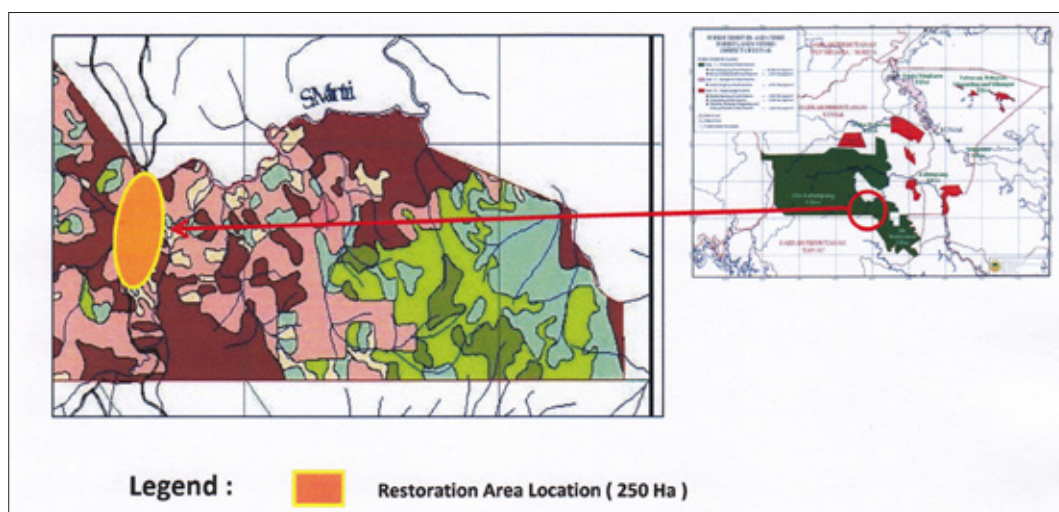
Location map of the Restoration Area in Kalumpang Forest Reserve VJR107D (Sapang).



Ketapang and batai seedlings planted in the project area

Forest Restoration At Ulu Kalumpang Forest Reserve (Sg. Mantri) - 250 Hectares (Project 2013- 2015)

Recovery of the area was started in 2013 by the contractor, Pertanian Kondowoi Pemborong Am, and by 2014, 11,587 saplings were planted representing an area covering 41.83 hectares. Other species planted included: Kapur, Sentang and other selected species. Job specifications in their contract agreement included planting, maintenance and fertilizing specifications.



Location map of the Restoration Area in Ulu Kalumpang Forest Reserve (Sg. Mantri).



(L–R) Batai trees planted in the project area to feed animals; Bayur seedlings planted in the project area; Sentang seedlings planted in the Ulu Kalumpang Forest Reserve; and Kapur seedlings planted in the shaded area.



(Left) View from top of forest restoration project, clearing through line strips and (right) rows of plants in the forest restoration project in Ulu Kalumpang FR.

Forest Restoration – Silviculture Activities in Madai Baturong Forest Reserve VJR107F (Binuang)

This is a continuous effort to maintain the structure of forest stands at selected forest areas. This practice can influence the composition of the forest and tree growth. The method used is to cut climbers that threaten the growth of trees. In 2014, only 150 hectares in selected areas of the Madai Baturong Forest Reserve VJR107F (Binuang) were treated due to the lack of provisions and this will be continued in 2015 depending on the allocation of funding.



(L–R) Demarcation of the border areas of silviculture in Madai Baturong Forest Reserve VJR107F; Climbers died as a result of forest treatment works; and trees stand improved with the silviculture treatment.

Wildlife Monitoring Program

In 2014, the area installed with camera traps is at the Ulu Kalumpang FR (Sg. Mantri). Its main purpose is to monitor the existence of wildlife, especially in areas that have been restored since the year 2008. The camera trap used in the project area, is the best way to confirm and identify the presence of wild animals and it is also widely used in ecological research today. This method can also record data accurately without the need to catch the animal. Captured images included endangered species such as Pygmy elephant (*Elephas maximus*), Samba Deer (*Cervus unicolor*), Malayan Sun Bear (*Helarctos malayanus*) and also the Tembadau (*Bos Javanicus*).



Images from camera traps - Pygmy Elephant; Samba Deer; Malayan Sun Bear and Banteng.

Forest Protection

This is a vital activity within the project area. Our mission is to maintain and rehabilitate the health of the forest by protecting them from fires, illegal fellers and other illegal activities. In 2014, just a few cases were recorded mainly those involving small timber illegal felling by converting trees into scantlings, or popularly known as 'bantalan'.

The Chart 24.1 below shows the reduction of forest crimes in the project area since the project started in 2006. The forest crime rate is decreasing due to better enforcement and placement of forest checking stations in each forest reserve under the project. Surveillance was done regularly and this concentrated in areas where forest crimes are prone to happen.

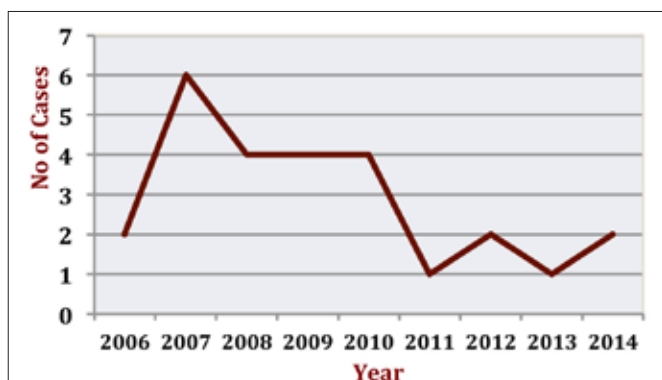


Chart 24.1: Number of crime case (2006–2014)

Total Expenditure In 2014

The total expenditure incurred by this Project for 2014 was RM2,900,00.00 (excluding salaries and fuel consumption which were paid by the SFD Headquarters). The approved allocation was RM 2.90 million from the State Government under the Tenth Malaysia Plan. However a sum of RM103,000.00 was paid to Pertanian Kondowoi Perkhidmatam Am company through the Trust Fund budget, to finance the destruction of felling illegally planted oil palm as a supplementary allocation.

Table 24.2 : Expenditures In 2014

No.	Projects	Amount (RM)	Percentage
1	Rehabilitation Program (Restoration + Silviculture)	2,214,169.65	76.35%
2	Forest Protection (Enforcement activities, boundary demarcation etc.)	98,422.00	3.39%
3	Admin Expenses (Field & Office Equipment)	50,000.00	1.72%
4	Gen Set and Vehicles parts/ services and maintenance	97,900.00	3.38%
5	Implementation and Supervision of AWP 2014	355,403.35	12.26%
6	Physical Developments (3 Forest Checking Stations and repair of Kunak Office)	84,105.00	2.90%
Total Actual Cost		2,900,000.00	

Note : Diesel, Petrol and Salaries are not funded under the allocated amount for this project. The expenses are under SFD headquarters.

Total Accumulated Expenditure 2006-2014

The overall expenditure since the inception of this project amounts to RM 17,227,762.73. The allocation comes from the State Government Development Budget under the RMK–9 and RMK–10 and this will be continued in RMK–11. Refer to Table 24.3.

Table 24.3 : Total expenditure from 2006 until 2014

Year	Expenditure (RM)
2006	298,886.54
2007	995,614.00
2008	1,994,724.05
2009	2,088,466.00
2010	2,618,874.51
2011	1,288,030.89
2012	2,536,937.37
2013	2,506,229.28
2014	2,900,000.00
Total	17,227,762.64

What were achieved in 2014?

The Table 24.4 shows the summarized achievements of all activities for this project in 2014

Table 24.4 : Achievements in 2014

No.	Activities	Achievements
Forest Operations		
1	Air surveillance	3 times (15 hours 15 minutes) Three (03) times (15 hours 15 minutes recorded) To monitor and to get an aerial view of the project area and surveillance.
2	Forest Protection activities	1. Ground monitoring with help from special task force "OPS SADANG". 2. Installation of forest reserve signboards along the forest reserve boundary at Mt. Wullersdorf FR. 3. Found some locations where there are illegal cultivation activities in a small scale in Ulu Kalumpang FR. 4. Upgraded two Forest Checking Stations in Ulu Kalumpang Forest Reserve area.
3	Establishment of Sample Plots (1 ha) and PSP	Completed and will be assessed in 2015.
4	Road maintenance within working block	Focused only in Landau and Cenderamata Restoration area, Ulu Kalumpang Forest Reserve and also in Mt. Wullersdorf area.
Forest Restoration		
1	Sg. Mantri, Ulu Kalumpang Forest Reserve - Planting 250 hectares	Listed work as in AWP 2014, was done. The agreement will last until 2015. Contractor : Pertanian Kondowoi Pembrong Am
2	Cenderamata Landau, Ulu Kalumpang Forest Reserve Maintenance of planted seedlings-600 Hectares (Planted 2009-2010)	Listed work as in AWP 2014 was completely done and the contract agreement ended in October 2014. Contractor : Vovozoon Engineering & Construction
3	Kalumpang VJR107C Forest Reserve (Mt. Forbes & Mt. Sangster) - Maintenance of planted seedlings-22 Hectares (Planted 2011) -Planting 27 hectares	Listed work as in AWP 2014 was completely done and the contract agreement ended in Jun 2014. Contractor : MBA Enterprise This area was planted with Batai spesies (Ex-project supposed be done by FEMAC ENGINEERING but not completed and the working agreement with the contractor had been terminated)
4	Mt. Wullersdorf Forest Reserve - Teck Seng area; Maintenance of planted seedlings-30 Hectares (Planted 2011)	Listed work as in AWP 2014 was completely done and the contract agreement will be ended in June 2015. Contractor : EZ Enterprise
5	Madai Baturong VJR107F (Binuang) Forest Reserve - 150 hectares	Silviculture. Completed
Boundary Demarcation And Maintenance		
1	Mt. Wullersdorf Forest Reserve Boundary Maintenance	Completed; 4.3 kilometres.
2	Kalumpang VJR107E (Mt.Mangkok) Forest Reserve	Survey on the ground was completed in April 2013 survey. Plan was approved by the Department of Lands and Surveys at the end of the 2014. Contractor : Jurukur Masa Sdn. Bhd.
Expenditures		
1	Under Vote D11 025: Ulu Kalumpang-Wullersdorf SFM Project). RMKe10 – State Government Development Budget.	Budget approved for 2014 : RM 2,900,000.00 Overall expenditure: RM2,900,000.00 Expenditure performance: 100%.
Project Compliance, AWP 2013		Project complied with 90%

Table 24.5: Summary of restored areas, destroyed illegally planted oil palms and silviculture treatment

No	Area	Area (ha)
1	Restored area since 2008	
	Sg. Mantri (Ulu Kalumpang Forest Reserve)	350
	Sg. Mantri 250 hectares (Ulu Kalumpang Forest Reserve)	250
	Cenderamata Landau (Ulu Kalumpang Forest Reserve)	600
	Mt. Forbes & Mt. Sangster (Kalumpang VJR107C Forest Reserve)-250 hectares	97.80
	Mt. Wullersdorf Forest Reserve	140
	Sangster (Kalumpang VJR107C Forest Reserve)	22
	Ulu Kalumpang + Madai Baturong VJR107F (Binuang) Forest Reserve (Adjacent to Sime Darby Plantation area at Binuang)	7
Total		1,466.80
2	Destroyed illegally planted oil palms	
	Ulu Kalumpang	2,924
	Kalumpang VJR107C (Mt. Forbes & Mt. Sangster)	300
	Mt. Wullersdorf (Baki untuk tahun 2014-189.92 ha.)	455.3
	Kalumpang VJR107D (Sapang)	93.98
Total		3,774
3	Silviculture Treatment (Climber cutting)	
	Madai Baturong VJR107F (Binuang)	450
	Kalumpang VJR107D (Sapang)	300
Total		750