



Lembaga Sumber Asli dan Alam Sekitar (NREB) Sarawak  
*Natural Resources and Environment Board (NREB) Sarawak*

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# ANNUAL REPORT 2012

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“Together we protect our environment  
for the benefit of the present and future generations”



## ***VISION***

***Towards Integrated Environmental Quality Management Leading  
to Sustainable Development in Sarawak***

## ***MISSION***

***To be committed as the lead State agency in Sarawak to protect  
and manage its environmental quality and natural resources for  
the benefit of both its present and future generations through the  
promotion of the principles of sustainable development***

## ***QUALITY POLICY***

***To continuously improve the effectiveness and efficiency of the  
NREB quality system implementation, to communicate the policy to  
all the NREB Staff, to comply with the requirements of the quality  
management system and to continually improve and review the  
quality objectives and policy for continuing suitability  
(MS ISO 9001:2008)***

# ***MESSAGE FROM THE CONTROLLER OF ENVIRONMENTAL QUALITY***



I am pleased to present the 2012 edition of the Annual Report for NREB. The report outlines the progress and achievements of NREB in implementing various programmes and projects for 2012. The financial performance for 2012 is also covered in the report.

In 2012, the responsibilities of the NREB have increased tremendously due to the implementation of many mega projects in the SCORE (Sarawak Corridor of Renewable Energy) development areas. Facing with these challenges, the NREB have adopted a resilient and proactive approach to ensure that the State continue to sustainable environmental management and protection.

Many environmental activities are organised to create awareness among the public. The involvement of local politicians and smart partnership with corporate bodies and other stakeholders have enabled NREB to execute its programmes impactfully. Various environmental undertaking, such as PALS Club (Kelab Pencinta Alam Sekitar) in schools, Eco-camps, environmental talks, “Rakan Alam Sekitar or RAS”, Community-Based Outreach programmes, the Local Agenda 21 activity, “Program Latihan Khidmat Negara” (PLKN), Environmental Education (EE) module and joint programmes with other agencies, have further augmented the NREB’s efforts in educating and enhancing awareness among the publics and the local communities on environmental protection and management. The expansion of NREB’s GeoEnviron Database Information System, the strengthening of the Environmental Impact Assessment mechanism and stringent monitoring and enforcement have also strengthened NREB’s effort in environmental management.

Inspite of all these, integrated efforts of all stakeholders are required to address the multitude of environmental issues that we are facing now. I am sure that with the involvement of all stakeholders and the public, we can succeed in our endeavour to create a healthy and sustainable environment.

Thank you.

A stylized, handwritten signature in black ink, appearing to read 'Peter Sawal'.

**PETER SAWAL**  
***Controller of Environmental Quality***  
***Sarawak***

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## **1.0 INTRODUCTION**

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As the key environmental authority in Sarawak, the Natural Resources and Environment Board (NREB), plays a pivotal role in the protection of environment and conservation of natural resources in the State.

## **2.0 FUNCTIONS AND POWERS OF NREB**

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Since its establishment on 1<sup>st</sup> February 1994, pursuant to the Natural Resources and Environment ordinance 1993, the functions and powers of NREB relating to the protection and management of the environment, includes:

- (i) To formulate or develop policies and guidelines to ensure that the exploitation, conservation and management of natural resources in the State will not cause any adverse impact to the environment;
- (ii) To determine the mode and manner whereby natural resources can be exploited or used without damaging, polluting or causing adverse impact on the environment;
- (iii) To direct any Environmental Authority and any other person or body involved in or undertaking the development, exploitation, utilization or management of natural resources on the steps or measures to be undertaken by them to maintain environmental quality control;
- (iv) To control, stop or prohibit the destruction of vegetation for the prevention or erosion, damage or injury to the natural resources, rivers and landscapes or the protection of the inland waters of the State;
- (iv) To provide rules, guidelines and directions for the protection and enhancement of the environment; and
- (v) To make orders for the protection and enhancement of the environment.

In line with vision of “Towards Integrated Environmental Quality Management Leading To Sustainable Development In Sarawak”, the NREB is committed to protect and manage its environmental quality and natural resources for the benefit of both it present and future generations through the promotion of the principles of sustainable development. To realize this, the NREB has formulated various environmental strategies and these include :

- Formulation of Environmental Laws, Regulations and Guidelines;
- Enforcement and Institution of its Laws and Regulations;
- Environmental Education and Awareness Programmes;
- Inter-Agency Collaboration and International Co-operation; and
- Scientific and Technical Approaches.

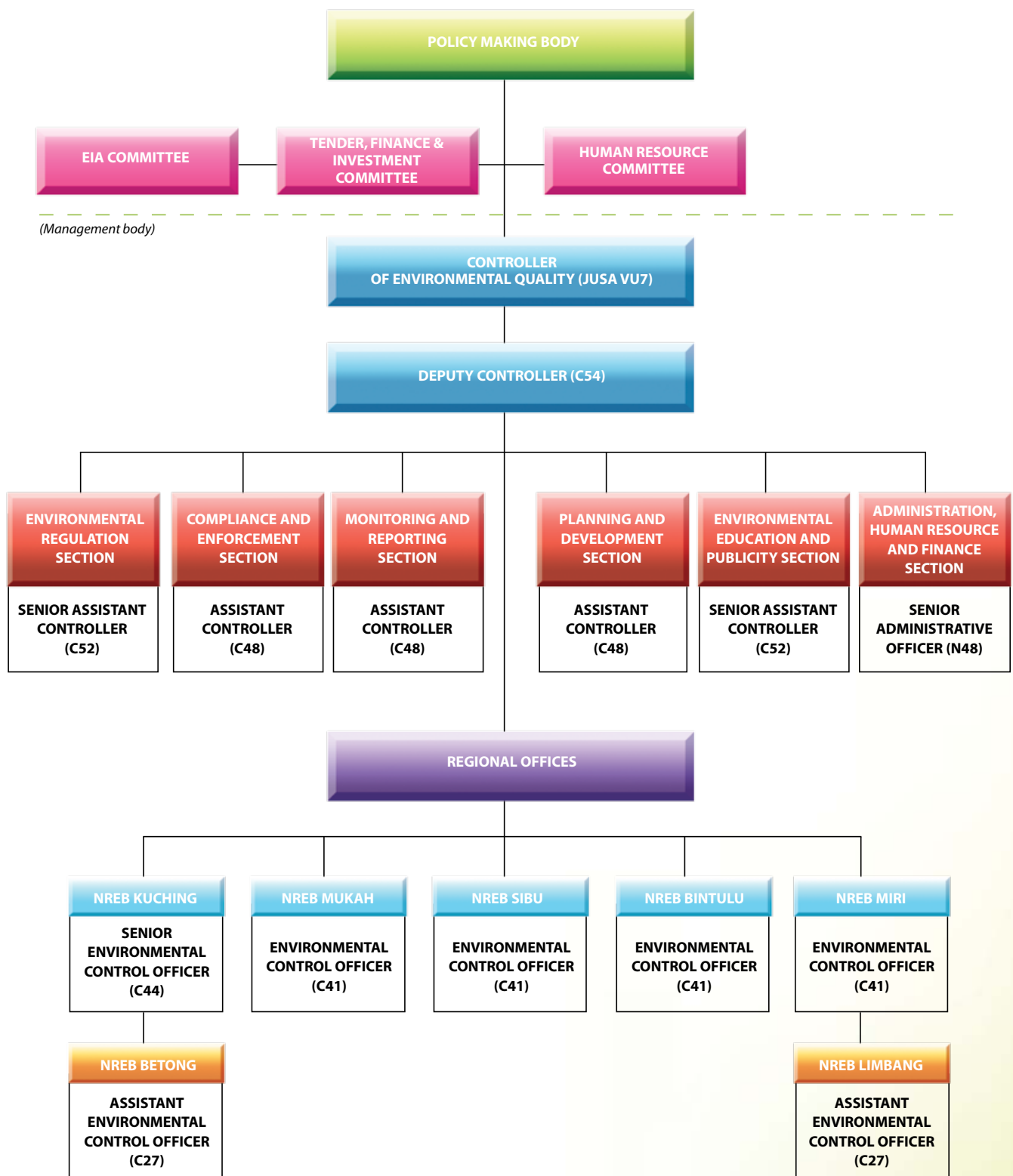
These strategies are vital in ensuring the success of its core activities, such as the environmental impact assessment process, planning and development of environmental projects, environmental quality monitoring, enforcement of laws under the Natural Resources and Environment Ordinance, 1993 and environmental education and information dissemination.

### ***3.0 ORGANIZATION STRUCTURE***

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The NREB Sarawak comprises of two main bodies, namely, the Executive or policy-making body and the Management body. The policy-making body consist of Board Members decide and formulate the policy, while directives from the Board are executed by the Management body.

# ORGANISATION STRUCTURE





### 3.1 POLICY MAKING BODY

The current Chairman of the Board is the Minister in the Chief Minister's Office and Minister for Special Functions, with the Controller of the NREB as the Secretary. The other members are the ex-officio appointed from related government agencies, including the Director-General of the Department of Environment, Malaysia.

#### BOARD MEMBERS AS AT 31<sup>st</sup> DECEMBER 2012



**CHAIRMAN**  
YB Tan Sri Datuk Amar Haji  
Adenan Bin Haji Satem  
Minister in the Chief Minister's Office  
and Minister for Special Function



**DEPUTY CHAIRMAN**  
YB Datu Haji Len Talif Salleh  
Assistant Minister of  
Environment, Sarawak

#### BOARD MEMBERS



Yang Arif Datu Haji Abdul  
Razak Bin Haji Mohd.  
Tready State Attorney  
General, Sarawak



YBhg. Dato Sri Ahmad  
Tarmizi Haji Sulaiman  
State Financial Secretary,  
Sarawak



YBhg. Dato Misnu Bin  
Haji Taha  
Deputy State Secretary  
(Human Resource),  
Sarawak



YBhg. Dato Sudarsono  
Haji Osman  
Permanent Secretary  
Ministry of Resource Planning  
and Environment, Sarawak



YBhg. Dato Jaul ak Samion  
Permanent Secretary  
Ministry of Land  
Development, Sarawak



Puan Halimah Hassan  
Director-General  
Department of Environment,  
Malaysia



YBhg. Dato Haji Ali  
Bin Yusop  
Director of Forest,  
Sarawak



Encik Sajeli Bin Kipli  
Director of Land and Survey,  
Sarawak  
(w.e.f. 3/1/2012)



Encik Wong Siu Hieng  
Director of Drainage and  
Irrigation, Sarawak



Encik Lai Kui Fong  
Director of Agriculture,  
Sarawak



**SECRETARY**  
Encik Peter Sawal  
Controller of Environmental Quality  
Natural Resources and Environment  
Board, Sarawak



## 3.2 MANAGEMENT BODY

The management body is headed by the Controller of Environmental Quality, who is assisted by a Deputy Controller, two Senior Assistant Controllers, three Assistant Controllers and a Senior Administrative Officer. At the Regional levels, an Environmental Control Officer and Assistant Environmental Control Officer is the officer in-charge of the operation of the regional offices respectively.

### **MANAGEMENT TEAM OF NREB**



**Mr. Peter Sawal**  
Controller of Environmental Quality Sarawak  
(Grade JUCA VU7)

**Mr. Jiram Sidu**  
Deputy Controller  
(Grade C54)



**Mr. Justine Jok Jau Emang**  
Senior Assistant Controller (Environmental Regulation Section)  
(Grade C52)

**Mr. Paul Ponar Sinjeng**  
Senior Assistant Controller (Environmental Education and Publicity Section)  
(Grade C52)



**Mdm. Hjh. Mariati Haji Yaman**  
Senior Administrative Officer (Administration, Human Resource and Finance Section)  
(Grade N48)

**Mdm. Rahmah Biak**  
Assistant Controller (Planning and Development Section)  
(Grade C48)



**Mr. Paul Bond Chamberlin**  
Assistant Controller (Compliance and Enforcement Section)  
(Grade C48)

**Mdm. Penny Sumok**  
Assistant Controller (Monitoring and Reporting Section)  
(Grade C48)



## 4.0 EXISTING MANPOWER

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Currently, the NREB has 208 personnel, including 38 permanent staff under the Management and Professional Group, 132 under Support Group I and 38 staffs under the Support Group II, respectively. The distribution of personnel for NREB in the State is shown in **Table 1**, below.

**Table 1.** Distribution of Personnel in NREB's Offices in the State

NO.	NREB OFFICES	TOTAL NO. OF STAFF
1.	NREB Headquarters	109
2.	NREB Kuching	18
3.	NREB Sibu	24
4.	NREB Miri	17
5.	NREB Bintulu	13
6.	NREB Betong	8
7.	NREB Mukah	12
8.	NREB Limbang	7
TOTAL		<b>208</b>

## 5.0 PROGRESS AND ACHIEVEMENTS IN 2012

### 5.1 PLANNING AND DEVELOPMENT

As the State environmental agency, the NREB is tasked in formulating environmental rules, guidelines and direction for the protection and enhancement of the environment. The Planning and Development (P&D) Section is tasked with the responsibility for the implementation of research and development projects in NREB, besides coordinating other activities in the year 2012, which included the following:

#### i) Studies

- a) Environmental Study on Sg. Pasai in Sibul Division.
- b) Study on Integrated Management Plan for Bengoh Water Catchment area (preparation of Terms of Reference).
- c) Study on Solid Waste Composition in Mukah and Dalat District Council, Mukah Division (preparation of Terms of Reference).
- d) Study on the effectiveness of septic tanks with their appropriate desludging frequency (with the assistance of JICA Senior Volunteer).

#### ii) 10<sup>th</sup> Malaysia Plan Project

##### a) Development of Biogas Plant for the Treatment of Piggery Waste at Livestock Farming Area at Pasir Puteh, Simunjan, Samarahan Division.

- As of end of December 2012, the construction of the Biogas Plant and Wastewater Treatment Plant for the LFA has been completed 69.76%, which is ahead of schedule by 0.26%. This project is scheduled for completion by July 2013.



Photo 1 : Biogas Plant at Pasir Puteh, Simunjan, Samarahan Division.





Photo 2 : Digester Tanks at Biogas Plant at Livestock Farming Area (LFA), Pasir Puteh, Simunjan.

- b) Pilot Project on Ecological Sanitation and Biogas in Rural School, Serian**
  - Reinstatement of toilets started in May 2012 for Building Alza and it is expected that all the toilets to be reinstated in year 2013.
- c) Environmental Impact Assessment (EIA) Guidelines**
  - Review of EIA Guidelines for Forest Harvesting.
  - Review of EIA Guidelines for Agriculture Development.
- d) Environmental Audit**
  - The Guidelines for the Natural Resources and Environment (Audit) Rules, 2008 has been finalized. The date of implementation and enforcement of the Natural Resources and Environment (Audit) Rules, 2008 will be on 1<sup>st</sup> January 2013.
- e) Key Focus Activities (KFA) 2012**
  - The KFA of NREB 2012 was “to improve the processing of application for open burning permit from 14 to 12 working days”. The working group meeting was held on 25<sup>th</sup> April 2012.
- f) Environmental Conservation and Solid Waste Management Project in Kampung Bako, Kuching**
  - This Project is a partnership between NREB, Japan’s Tochigi International Association (TIA) and Japan International Cooperation Agency (JICA). The Implementation period is from April 2012 until March 2015.



Photo 3 : Launching of the Composting and Waste Management project at Kampung Bako, Kuching by Mr. Peter Sawal, the Controller of Environmental Quality, Sarawak.



Photo 4 : Talk on waste management by Mr. Eiji Yoshiro from JICA in Kampung Bako, Kuching.



Photo 5 : Presentation of composting bins to the representative of Kampung Bako by DBKU for the Composting and Waste Management project at Kampung Bako, Kuching.





Photo 6 : Demonstration of candle and soap making from used cooking oil in Kampung Bako, Kuching by Mr. Masato Morishita, JICA Senior Volunteer.

**g) Seminar, Conferences and Sharing Experience of Environmental Management in Other Countries**

- i) Retreat on Strategic Action Plan for NREB organized at Damai Puri Resort, Kuching on 26<sup>th</sup> - 27<sup>th</sup> April 2012.
- ii) 2<sup>nd</sup> NREB Senior Officers Conference organised at Riverside Majestic Hotel, Kuching on 3<sup>rd</sup> - 4<sup>th</sup> December 2012.
- iii) Talk on Environmental Management by Mr. Masato Morishita, Senior Volunteer of JICA:
  - Japan's challenge for the environmental sanitation case study of technology transfer: Wastewater Treatment Plant in Semarang City, Indonesia.
  - Case study of Technology Transfer: Analytical method of Coliform Bacteria, Semarang City, Indonesia with a practical session: an easy monitoring method of water quality.
  - Ecological House in Cebu, Philippines.
  - Solid waste management in Asian Countries.
- iv) Sharing of JICA Training Course on "Mitigation of Climate Change in the Southeast Asia and Oceania Region".



## 5.2 ENVIRONMENTAL REGULATION (ER)

As provided under Section 11A (1) of the Natural Resources and Environment Ordinance, 1993, the NREB is responsible to ensure that developers or project proponents carry out the Environmental Impact Assessment (EIA) for all prescribed activities that may have impact to the environment. Additionally, the NREB is also responsible with the issuance of various environmental permits and registration of Environmental Consultant.

### (i) Environmental Impact Assessment (EIA) Reports

The Environmental Impact Assessment (EIA) evaluation is the core activities of the Environmental Regulation Section. Out of 123 reports received during the year, 117 were approved, 3 were rejected and the rest were still under evaluation process or their approvals were pending the submission of additional information. These include 42 EIA reports for infrastructure (mainly roads), 34 for agriculture (plantations), 26 for realty, 11 for quarry and mining, 8 for forest harvesting and 2 respectively for landfills, as in **Table 2** below.

**Table 2.** Number of Environmental Reports processed in 2012

ACTIVITY	ENVIRONMENTAL REPORTS			ADDENDUM	REVISED	REMARKS
	RECEIVED	APPROVED	REJECTED			
Agriculture	34	21	2	-		2 rejected due to NCR Concept
Aquaculture	-	-	-	-		
Forestry	8	7	-	1		
Infrastructure	42	64	-	16	1	
Realty	26	13	-	10	1	
Quarrying & Mining	11	10	1	-		1 EIA report cannot be proceeded with evaluation as the consultant's registration has expired
Landfill	2	2	-	-		
<b>Total</b>	<b>123</b>	<b>117</b>	<b>3</b>	<b>27</b>	<b>2</b>	

## (ii) Controlled Open Burning Permit

As provided under the Natural Resources and Environment (Fire Danger Rating System) Order, 2004, a total of 272 open burning permit applications were received, with 224 approved for the year 2012. The Mukah Division recorded the highest application for open burning permit, mainly for disposal of biomass for land development activities.

**Table 3.** Controlled burning permit issued by division in 2012

NO.	DIVISION	APPROVED	NOT APPROVED	TOTAL PROCESSED
1.	Kuching/Samarahan	45	5	50
2.	Betong/Sri Aman	15	4	19
3.	Sibu/Sarikei/Kapit	33	12	45
4.	Mukah	76	13	89
5.	Bintulu	3	2	5
6.	Miri	50	12	62
7.	Limbang/Lawas	2	0	2
Total of Application Processed				272

## 5.3 COMPLIANCE AND ENFORCEMENT (C&E)

The NREB have carried out enforcement, compliance and monitoring activities, especially to EIA approval projects throughout the State. The NREB also deals with public complaints related to various environmental issues.

### (i) Project Monitoring

In 2012, the Section monitored 1014 projects with EIA and EMP requirements, and 104 projects that were non-EIA projects or projects under directives and guidelines. A total of 1084 monitoring visits were carried out, which consists of 1027 for regulated projects and 57 visits for unregulated projects. Arising from these monitoring visits, a total of 174 reminder letters were issued to project developers for non-compliance to Term and Approval Conditions. **(refer to Table 4, 5 and 6).**

**Table 4. Compliance Monitoring by Regions**

Region	Regulated Projects (with EIA, EMP)				Reminder letter
	No. of projects	No. of monitoring visits	No. of projects visited once a year	% of projects visited once a year	
Kuching/ Samarahan	235	209	98	41.7	26
Betong/ Sri Aman	110	71	71	64.5	11
Mukah	105	165	105	100	16
Sibu/ Sarikei/ Kapit	129	205	129	100	61
Bintulu	204	142	212	65.7	31
Miri	197	197	197	100	27
Limbang	34	38	34	100	2
<b>Total</b>	<b>1014</b>	<b>1027</b>	<b>846</b>	<b>83.4</b>	<b>174</b>

**Table 5. Compliance Monitoring by Regions**

Region	Unregulated (with directive, guidelines)				Reminder letter
	No. of projects	No. of monitoring visits	No. of projects visited once a year	% of projects visited once a year	
HQ	-	-	-	-	-
Kuching/ Samarahan	49	27	10	20.4	-
Betong/ Sri Aman	15	-	-	-	-
Mukah	9	11	9	100	-
Sibu/ Sarikei/ Kapit	16	12	12	75	1
Bintulu	8	-	-	-	-
Miri	5	5	5	100	-
Limbang	2	2	2	100	-
<b>Total</b>	<b>104</b>	<b>57</b>	<b>38</b>	<b>36.5</b>	<b>1</b>

**Table 6. Compliance Monitoring by Section**

Section	2012		PROJECTS COMPLETED
	NO. OF MONITORING VISITS	NO. OF PROJECTS VISITED ONCE A YEAR	
Realty	104	88	21
Agriculture	490	412	0
Forestry	114	90	0
Mining & quarry	110	64	0
Infrastructure	133	149	106
Aquaculture	22	5	0
Landfill	54	38	2
<b>Total</b>	<b>1027</b>	<b>846</b>	<b>109</b>



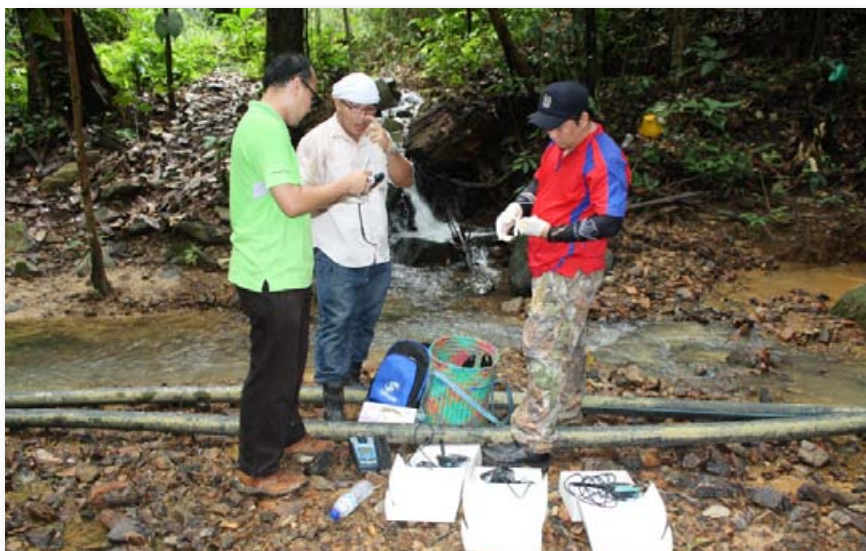


Photo 7 : Water quality sampling for public complaint.

Photo 8 : Investigation of public complaint.



## (ii) Environmental Monitoring Reports (EMRs)

In year 2012, the NREB received a total of 1,550 EMRs for projects listed as prescribed activities under the Natural Resources and Environment (Prescribed Activities) Order, 1994. To comply with the client charter, there were 1,547 (or 99.3%) EMRs evaluated within 15 working days as shown in **Table 7 and 8**.

**Table 7.** Environmental Monitoring Reports (EMRs) by quarter

QUARTER	RECEIVED	NO. OF EMR EVALUATED WITHIN 15 WORKING DAYS	% OF EMRs WITHIN 15 WORKING DAYS
1 <sup>st</sup> quarter	468	468	100
2 <sup>nd</sup> quarter	553	553	100
3 <sup>rd</sup> quarter	448	447	99.78
4 <sup>th</sup> quarter	81	79	97.5
<b>Total</b>	<b>1550</b>	<b>1547</b>	<b>99.32</b>

**Table 8.** Environmental Monitoring Reports (EMRs) by Unit

UNIT	1 <sup>st</sup> QUARTER	2 <sup>nd</sup> QUARTER	3 <sup>rd</sup> QUARTER	4 <sup>th</sup> QUARTER	TOTAL
Realty	37	41	30	15	123
Agriculture	247	298	192	29	766
Forestry	59	59	60	12	190
Mining & quarry	56	56	61	0	173
Infrastructure	52	77	82	14	225
Aquaculture	13	13	14	8	48
Landfill	4	9	9	3	25
<b>Total</b>	<b>468</b>	<b>553</b>	<b>448</b>	<b>81</b>	<b>1,550</b>

**(iii) Public Complaints**

In 2012, the NREB received a total of 199 public complaints on environmental related matters. Out of these, 183 complaints (or 92%) investigated within 14 working days, as in Table 11 below:

**Table 9.** Public complaints on environmental related matters

REGION	RECEIVED	INVESTIGATED WITHIN 14 WORKING DAYS	% OF COMPLAINTS INVESTIGATED WITHIN 14 WORKING DAYS	PENDING CASES	REMARKS
Headquarters	51	47	92	4	Report being reviewed/ evaluated.
Kuching/ Samarahan	17	17	100	0	
Betong/ Sri Aman	7	7	100	0	
Mukah	18	15	83	3	Being evaluated.
Sibu/ Sarikei/ Kapit	52	48	92	4	1 case - land owner settled themselves. 1 case - result of water quality received late. 1 case - Investigation on going. 1 case - referred to other agency.
Bintulu	10	8	80	2	1 case - referred to other agency. 1 case - report pending.
Miri	41	38	93	3	Case delayed due to: i. Joint investigation ii. Other agency iii. IP opened
Limbang	3	3	100	0	
<b>Total</b>	<b>199</b>	<b>183</b>	<b>92</b>	<b>14</b>	

**(iv) Investigation Paper (IP) and Compound**

A total of 41 cases of environmental related offences were investigated and a total of 36 Offer to Compound Offences were issued in 2012.

**Table 10.** Investigation Paper and Compound

REGION	NO. OF IP RECEIVED	NO. OF IP ISSUED WITH COMPOUND	NO. OF IP UNDER ASSESSMENT
Kuching	7	7	0
Betong/ Sri Aman	-	-	-
Mukah	6	5	1
Sibu/Sarikei/ Kapit	14	10	4
Bintulu	2	2	0
Miri	12	12	0
Limbang	-	-	-
<b>Total</b>	<b>41</b>	<b>36</b>	<b>5</b>

**Table 11.** Nature of Offence by region

Region	Section 31 (Contravention of EIA Approval Conditions)	Section 30(1)(a) (open burning of construction waste)	Section 30(2) (Open burning of vegetative waste)	Failure to comply with EIA Approval Conditions	Other Offence
Kuching	2	-	-	4	-
Betong/ Sri Aman	-	-	-	-	-
Mukah	-	1	3	-	-
Sibu/Sarikei/ Kapit	-	-	12	-	1
Bintulu	-	1	1	-	-
Miri	4	1	4	-	2
Limbang	-	-	-	-	-
<b>Total</b>	<b>6</b>	<b>3</b>	<b>20</b>	<b>4</b>	<b>3</b>

**5.4 MONITORING AND REPORTING (M&R)**

The NREB monitor and report on ambient air and water quality, as well as, solid waste management throughout the State. The quality of ambient air and water, and solid waste management are reported in the **Environmental Quality Report** annually.

## (i) Air Quality

Air quality data from NREB's AQMS Stations and from the Department of Environment (DOE) were collected and reported on a daily basis. The Air Quality Monitoring Station (AQMS) monitor both local and trans-boundary haze. In 2012, the NREB installed a new AQMS, located at Tebedu, to replace the old one that was out of order.



Photo 9 : Air Quality Monitoring Station (AQMS) at Tebedu.

The Section also monitors and reports hotspots count daily, based on the NOAA satellites and ASEAN Specialized Meteorological Centre (ASMC) data. The coordinates of the hotspots are overlaid with the land use map to check on the locality, before site validation is carried out as part of the enforcement procedure.

## (ii) Water Quality

Monitoring of river water in the State has been carried out since 1999 through River Water Quality Monitoring Program (RWQMP). The program provides useful and extensive information, particularly, on the general health and status of river water and water bodies. In 2012, a total of 59 rivers and tributaries, 3 lakes and 3 dams in the State were monitored by the NREB. Based on the monitoring results in 2012, 10% (6 rivers) were categorized as clean, 61% (36 rivers) were categorized as slightly polluted, while the remaining 29% (17 rivers) were polluted.



The details of the findings on the status and trends of water quality of all the monitored rivers, lakes and dam in 2012 are reported in the Annual Environmental Quality Report for 2012.

### **(iii) Solid Waste Management**

In 2012, NREB monitored 47 actively operating landfills and dumping grounds throughout the State. The status of landfills was recorded based on yearly survey (responded by local authorities), as well as, site visits. Leachates discharged from various landfills were collected for laboratory analysis. In 2012, a total of 45 landfills were monitored for the quality of leachate discharged from the landfills. The results were compared to the Environmental Quality (Control of Pollution from Solid Waste Transfer Station and Landfill) Regulations 2009:19 Second Schedule of (Regulation 13) Acceptable Conditions for Discharge of Leachate.

In 2012, an average of 856.4 metric tonnes per day of waste disposed into open landfill, 906 tonnes per day into sanitary landfill and 475 tonnes per day of wood and bulky waste disposed into open landfill.

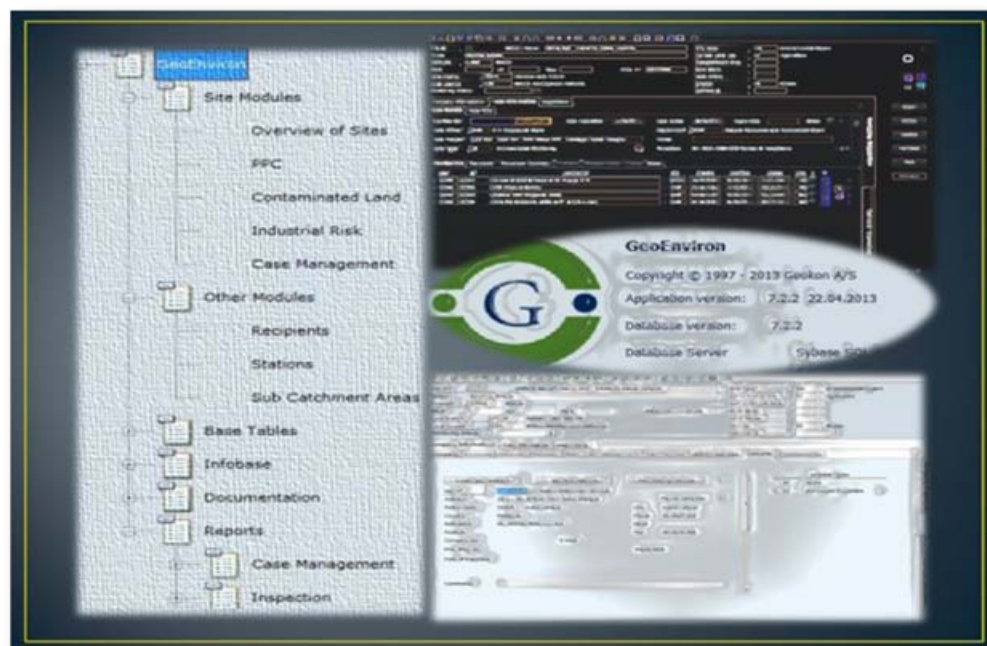
### **(iv) GeoEnviron Database System**

GeoEnviron is a dedicated database system developed in year 2006 to handle environmental data and information. The system was established for storing, managing, analyzing and reporting a wide range of environmental data generated from various activities under the preview of the NREB. The system is a collection of modules, namely, Pollution Prevention Control, Contaminated Land, Case Management, Recipients, Stations and Sub-Catchment Areas. Each module has been designed to handle different types of data such as water, leachate, landfill, and environmental data from Environmental Impact Assessment (EIA) report and Environmental Monitoring Report (EMR).

Apart from managing the environmental data, the system has been identified as a tool to improve delivery system for two of the main NREB operations, namely, approval of EIA and assessment of EMR. The system is utilized to register or record the progress of these activities. Performance of these activities could be accessed in real-time across Sarawaknet, and customized report could be generated once these activities are fully registered in the system.

Up to date, there are 30 licences in use that enable users connected to the GeoEnviron Database System. These licences are currently used by the following agencies:

- Ministry of Local Government and Community Development;
- Natural Resources and Environment Board;
- State Planning Unit;
- Department of Drainage and Irrigation (Sarawak);
- Department of Sewerage Services;
- Department of Environment (Sarawak);
- Sarawak Rivers Board;
- Padawan Municipal Council; and
- Kuching Water Board.



GeoEnvironment Database System page.

## 5.5 ENVIRONMENTAL EDUCATION AND PUBLICITY (EEP)

One of the core function of the NREB is to formulate and implement various environmental education and awareness programmes and activities for various target groups throughout the State. It is also responsible for enhancing and fostering public relations and corporate image of the NREB and disseminating accurate environmental information to the public through environmental talks, exhibitions, posters display, pamphlets distribution, media publication and publication of the NREB annual report.

The NREB also organizes environmental awards and incentives, such as, SERASI Award and the biennial Sarawak Chief Minister's Environmental Award (CMEA).

## (i) Environmental Education and Awareness Programme

The NREB carried out environmental education and awareness activities under the Integrated Environmental Education and Awareness Programmes (IEEAP), which can be further categorized as school-related activities and non-school related activities. Many of these activities are also jointly organised with other government agencies. The school-related activities, which involve students, teachers and institute of higher learning consist of:

- PALS Clubs (*Kelab Pencinta Alam Sekitar*);
- Eco-Camps;
- *Kem Mesra Alam*;
- Train-the-Trainers;
- Mini-Environmental Workshops;
- Formulating of Environmental Education modules;
- Sekolah Sejahtera;
- Sekolah LESTARI;
- Environmental Talks;
- Exhibitions and Campaigns;
- Joint Programmes with other Agencies;
- World Environmental Day events;
- Malaysian Environmental Week (MASM) celebrations; and
- Demonstration on how to make home composting

The non-school related activities, which involve the public, local communities, community leaders and political leaders consist of:

- National Service (PLKN) Environmental Education Modules;
- Industrial Outreach programmes;
- *Rakan Alam Sekitar* (RAS) Programmes at Mambong, Serian, Sri Aman, Sarikei and Baram Parliamentary Constituency;
- Community-based Environmental Education (CBEE) and Outreach Programmes;
- Community and Industrial Dialogues;
- Publicity, Workshops, Environmental Talks and Exhibitions;
- Environmental Programmes with other Agencies; and
- *Sejiwa Senada* Programmes

The details of community-base environmental programmes organized by NREB in 2012 are shown in **Table 12 (Appendix I)**.





Photo 10 : Environmental Awareness Programme for PLKN trainees.

Photo 11 : Industrial Outreach Programme for plantation and industry players.



Photo 12 : Presentation of certificate to participants by Member of Parliament during RAS programme in the Lubok Antu Parliamentary Constituency.





Photo 13 : RAS Programme in Daro Parliamentary Constituency.

Photo 14 : Colouring contest among school children during the RAS Programme in Daro Parliamentary Constituency.



Photo 15 : Briefing on Haze by the NREB for the local community.



Photo 16 : School children using used newspapers to make traditional “ngajat” costume at the LA21 programme at a longhouse.

In 2012, a total of 20 schools (15 SK and 5 SMK) were recruited to join the PALS Club. Altogether, 240 PALS clubs in schools (132 primary schools and 108 secondary schools) were monitored. Six PALS club workshops were organised with participation from 43 schools. Eight meetings were held with PALS club teachers statewide. The meetings were held to discuss ways and means to improve the present set-up and management of the PALS Club in schools. Maintenance grant of RM500.00 for Secondary and RM300.00 for Primary were given to schools with PALS Clubs to carry out and support their environmental activities. A total of 89 primary schools and 70 secondary schools received this grant in 2012.



Photo 17 : A school beautification project carried out by PALS club.





Photo 18 : Exhibition is also organized by PALS Club as part of its awareness programme.

Photo 19 : Dissemination of environmental information through murals and paintings.



In 2012, two Eco Camps were organised jointly with Petronas and the Sarawak State Education Department. In order to strengthen the knowledge and capacity of the staff and the teachers involved in environmental education programmes, one Train-the-Trainers programme and three capacity-building programmes were also organised. Of the three capacity building programmes organised, two were in-house programmes while one was organised by Sabah Environmental Education Network (SEEN) in Kota Kinabalu wetlands, Sabah. Publication of PALS club bulletins and guideline book were also carried out.

The details of the school-related activities are shown in **Tables 13 (Appendix II)**.



Photo 20 : Presentation of sponsorship by Petronas to NREB for the Eco-Camp in Miri.

Photo 21 : Students learning various skills, including making items out of recycled materials.



Photo 22 : Students are exposed to nature and outdoor activities at the Eco-Camp.





Photo 23 : Participants of the Miri ECO Camp showing their joy in a group photo.

## (ii) Publicity

In 2012, the publicity activities includes exhibitions, posters display, pamphlets distribution, media publication and publication of the NREB annual report (**refer to Table 14 in Appendix III**).

A total of 15,000 units of publicity materials, including posters, pamphlets, fish tails, note pads, and flyers were printed for distribution to the general public during environmental events, exhibitions and related functions. Recyclable bags and souvenirs made of environmentally friendly materials and printed with environmental messages were also handed out to the public as part of the awareness campaign activity.



Photo 24 : Water quality demonstration kits and exhibition booths are set up to disseminate environmental information to the public.

Photo 25 : Brochures, pamphlets and posters are used to disseminate environmental information to the public.



### (iii) Environmental Awards

One of the main environmental award in Sarawak is the Sarawak Chief Minister's Environmental Award (CMEA). The CMEA is organised biennially to reward outstanding industries that have demonstrated exemplary stewardship in environmental management in their industrial activities. A total of 39 companies and organisations participated in the three categories of the award in 2012. The details of the winners for the CMEA in 2012 are shown in **Table 15 (Appendix IV)**.



Photo 26 : The Honourable Tan Sri Datuk Amar Haji Adenan Bin Haji Satem (Chairman of NREB), presenting entry forms to one of the participants of the Sarawak Chief Minister's Environmental Award (CMEA) 2012.





Photo 27 : A group photo of the winners of the Sarawak CMEA 2012 with YAB Pehin Sri Abdul Taib Mahmud, Chief Minister of Sarawak.

The SERASI Award is also organised biennially to reward outstanding schools that demonstrated excellent environmental practices in their schools, through various green activities and events throughout the year. The award is sponsored by Sarawak Shell Berhad. The 2012/2013 SERASI Award was launched on the 11<sup>th</sup> of May 2012 in Miri by the Assistant Minister of Environment, Sarawak. For the 2012/2013 SERASI Award, a total of 32 schools were shortlisted to participate in the award. This number consisted of 15 secondary schools and 17 primary schools throughout Sarawak (**refer to Table 16 in Appendix V**). The winners would be announced in an award presentation ceremony in March 2013.



Photo 28 : The presentation of sponsorship from Shell for the SERASI Award 2012/2013, witnessed by the Honourable Datu Haji Len Talif Saleh, Assistant Minister of Environment Sarawak.



Photo 29 : Presentation of participation forms to schools for the SERASI Award 2012/2013.

## 5.6 ADMINISTRATION, HUMAN RESOURCES AND FINANCE SECTION

The function of this Section is to provide effective and efficient administration of NREB, through good human capital development and prudent financial management. This is to ensure good service delivery to the stakeholders and the public. Continuous effort is made to build the capacity and capability of the staff to achieve this goal.

### (i) Staff Recruitment and Transfer

In the execution of its functions, the NREB had recruited six (6) personnel for various post in 2012 (refer to **Table 17**). Ten (10) personnel were transferred to various NREB's offices as per **Table 18**.

**Table 17.** New staff recruited in 2012

NO.	NAME	DESIGNATION	LOCATION
1.	Miss Sinah Binti Wahi	Assistant Environmental Control Officer	Headquarter
2.	Miss Siti Hajar Binti Wahab	Assistant Environmental Control Officer	NREB Bintulu
3.	Mdm. Timah Beskop	Assistant Environmental Control Officer	NREB Sibu
4.	Mr. Wilfred anak Sedau	Assistant Environmental Control Officer	Headquarter
5.	Mr. Cassidy anak Tiles	Enforcement Assistant	NREB Miri
6.	Mdm. Fazilawati bt Abdul Rani	Administrative Assistant (Finance)	Headquarter
7.	Mr. Mohamad Jahar bin Isa	Enforcement Assistant (Note: resigned as NREB's Driver)	Headquarter



**Table 18.** Staff transferred in 2012

NO.	NAME	DESIGNATION	DETAIL OF TRANSFER		EFFECTIVE DATE
			FROM	TO	
1.	Mdm. Noor Azima Binti Mohamad Dahlan Badar	Senior Environmental Control Officer	Headquarter	NREB Kuching	1 Jan 2012
2.	Miss Elizabeth Nyomek	Senior Environmental Control Officer	NREB Sibu	Headquarter	1 Jan 2012
3.	Mr. Dau anak Utau	Environmental Control Officer	NREB Bintulu	NREB Sibu	15 Feb 2012
4.	Mr. Danish Chin Abdullah	Driver	Headquarter	NREB Kuching	1 Jul 2012
5.	Mdm. Florence Anding	Assistant Environmental Control Officer	NREB Mukah	NREB Betong	1 Jul 2012
6.	Mr. Edwin ak Dimong	Driver	NREB Kuching	Headquarter	1 Jul 2012
7.	Mdm. Rohida binti Mohamad	Administrative Assistant (Operation)	NREB Miri	NREB Bintulu	1 Sep 2012
8.	Mdm. Maureen ak Sadang	Administrative Assistant (Operation)	NREB Bintulu	NREB Miri	1 Sep 2012
9.	Miss Enderawati Binti Mohamad Dahlan	Assistant Environmental Control Officer	NREB Sibu	NREB Mukah	1 Sep 2012
10.	Encik Wilfred Johnny Temaga	Assistant Environmental Control Officer	Headquarter	NREB Sibu	1 Sep 2012

## (ii) Capacity Building and Staff Training

In 2012, NREB organized ten (10) in-house training and sent the staff to participate in fifty nine (59) external training programmes, including training in oversea. These training programmes are categorized into technical and non-technical training as shown in pie chart below and Table 19, Table 20 and Table 21. **(Table 21 refer to Appendix VI).**

**Table 19.** Types of In-house training attended by NREB's staff in 2012

NO.	TRAINING	DATE	NO. OF DAY/S	VENUE	TECHNICAL	NON-TECHNICAL
<b>A.</b>	<b>COURSE</b>					
1.	Bengkel Fail Meja dan Manual Prosedur Kerja	27-28.3.2012	2	Premier Hotel, Sibul		√
2.	GIS Application Training - ArcView/ GeoEnviron/ AutoCad	29-30.3.2012	2	NREB Sibul	√	
3.	Formulation of The NREB Strategic Action Plan (SAP) : SAP Retreat	26-27.4.2012	2	Damai Puri Resort & SPA, Santubong		√
4.	Refresher Course	14-16.5.2012	3	Harbour View Hotel, Kuching		√
5.	MS-ISO 9001:2008 Refresher Course	1-2.8.2012	2	Grand Continental Hotel, Kuching		√
6.	Training Needs Analysis (TNA)	18-19.9.2012	2	Grand Continental Hotel, Kuching		√
7.	GPS Training	1.11.2012	1	Yayasan Sarawak, Kuching	√	
8.	GPS Training	8.11.2012	1	NREB Sibul	√	
9.	GPS Training	27.11.2012	1	NREB Bintulu	√	
10.	GPS Training	6.12.2012	1	NREB Miri	√	

**Table 20.** Oversea training attended by NREB's staff in 2012

NO.	NAME	TRAINING/COURSE	DURATION	VENUE/COUNTRY
1.	Manaffery Hj. Madhan	Course on Haze and Peat land Management.	15-17/05/2012	Singapore
2.	Mohd. Jefrin Azlan Abdullah	Course on JICA-NREB - Tochigi International Association Partnership Programme for Environmental Conservation and Domestic Solid Waste in Kuching.	19/06/2012 to 23/08/2012	Montegi Town and Asian Rural Institute, Japan
3.	Paulina Danggat			
4.	Rahmah Biak	Course on Mitigation of Climate Change in the Southeast Asia and Oceania Region	12/08/2012 to 14/09/2012	JICA Tsukuba, Kitakyushu and JICA Tokyo, Japan



Photo 30 : Group photo for overseas course on Mitigation of Climate Change in the Southeast Asia and Oceania Region at JICA Tsukuba, Kitakyushu and JICA Tokyo, Japan



Photo 31 : Course on JICA-NREB - Tochigi International Association Partnership Programme for Environmental Conservation and Domestic Solid Waste in Kuching at Montegi Town and Asian Rural Institute, Japan

**(iii) Industrial Training**

In 2012, NREB approved various applications for industrial training from various institutions of higher learning as shown in **Table 22** below.

**Table 22.** Number of Students from Various Universities Accepted for the Industrial Training at NREB for the Year 2012

NO.	LIST OF UNIVERSITIES	NO. OF STUDENTS
1.	Universiti Malaysia Sarawak (UNIMAS)	6
2.	Universiti Teknologi MARA	5
3.	Universiti Malaysia Sabah	8
4.	Politeknik Sultan Idris Shah	1
5.	Universiti Malaysia Perlis (UniMAP)	2
6.	Politeknik Mukah	2
7.	PPKS	1
8.	Universiti Malaysia Pahang	1
9.	Curtin University Of Technology	1
<b>Total</b>		<b>27</b>

## ***6.0 INVOLVEMENT IN VARIOUS WORKING COMMITTEES, CONVENTIONS & COUNCILS***

The NREB is a member of numerous working committees, task forces, councils and conventions at District, Divisional, State, National, Regional and International levels and participates actively in meetings that are held throughout the year.

At the Regional and International levels, NREB is involved in:

- i) SOSEK MALINDO (Environmental and Forestry Technical Team)
- ii) ASEAN Haze Action Committee (Sub-regional Fire Fighting Arrangement)
- iii) BIMP-EAGA Working Committee on Environment and Forestry
- iv) The Heart of Borneo (HOB) Committee
- v) International Conference on Natural Resources and Environmental Management (NREM) and Environmental Safety and Health (ESH)



At the National level, NREB is involved in:

- i) Working Committee on the United Nations Framework for Convention on Climate Change (UNFCCC)
- ii) Convention on Biological Diversity (CBD)
- iii) Environmental Quality Council of Malaysia (EQCM)
- iv) National Committee on Basel Convention
- v) National Haze Committee
- vi) National Steering Committee on Biodiversity
- vii) National Steering Committee on Environment and Development
- viii) National Wetlands Technical Committee
- ix) National Eco School Committee
- x) Sarawak Industry Development and Commodity Committee
- xi) Technical Working Group and Sub-Regional Ministerial Steering Committee Meeting on Transboundary Haze Pollution
- xii) Working Group on Inventory of Green House Gases – Waste Management Sector

At the State level, NREB is involved in:

- i) Angkatan Zaman Mansang/Sarawak Development Institute (AZAM)/SDI Environmental Management Committee
- ii) HEP Resettlement Committee
- iii) Sarawak Biodiversity Centre Council
- iv) GEF-UNDP Core Management Team for Loagan Bunut National Parks
- v) National Environmental Week
- vi) Project Management Group on Livestock Farming Area (LFA)
- vii) Sarawak-Sabah Environmental Committee
- viii) Sekolah Rakan Alam Sekitar (SERASI) Committee
- ix) State Border Towns Development Committee
- x) State Development Executive Committee (SDEC)
- xi) State Information Technology Research Council (SITRC)
- xii) State Disaster Management and Relief Committee
- xiii) State Public Health Committee
- xiv) State RAMSAR Site Management Committee
- xv) State Task Force on Native Customary Land (NCL) Development
- xvi) State Water Resources Council
- xvii) State Wetlands Committee
- xviii) Steering Committee on Community Resettlement for Bengoh Dam Project
- xix) Technical Committee on Safety Aspect of Bakun Hydroelectric Project
- xx) Monitoring Committee on Key Focus Area (KFA)
- xxi) Special Task Force for NCR Land Development
- xxii) Murum Resettlement Communication Committee
- xxiii) Impoundment Committee for Murum Hydro-Electric Project

At the Divisional, City and District levels, NREB is involved in:

- i) Healthy City Programme
- ii) Local Agenda 21
- iii) Kem Mesra Alam (KMA)
- iv) National Parks Committee
- v) Divisional Development Committee

As part of the statutory requirement, the NREB has also formed a number of internal committees, including:

- i) Jawatankuasa Keutuhan Jabatan
- ii) Jawatankuasa Disiplin
- iii) Majlis Bersama Jabatan (MBJ)
- iv) Panel Pembangunan Sumber Manusia (PPSM)
- v) Tender, Finance and Investment Committee (TFIC)
- vi) Human Resource Committee (HRC)

## 7.0 MS ISO 9001:2008 QUALITY SYSTEMS CERTIFICATION

The NREB has been certified with the MS ISO 9001:2008 quality standard for “The Management of EIA Process” and the certification is valid from 1<sup>st</sup> February 2012 until 2<sup>nd</sup> February 2015.



Certificate of MS ISO 9001:2008 Quality Standard for The Management of EIA Process.

## 8.0 FINANCIAL RESOURCES IN 2012

The annual operating budget of the NREB come from the State grant and the NREB's general reserve. In addition, the NREB implemented few development projects under the Tenth Malaysia Plan (10MP). The Balance Sheet and Income Statement, as of 31<sup>st</sup> December 2012 are shown below:

### ***BALANCE SHEET AS AT 31<sup>ST</sup> DECEMBER 2012***

	2012 (RM)	2011 (RM)
<b>NON-CURRENT ASSET</b>		
Property, Plant and Equipment	2,055,651	2,116,048
<b>CURRENT ASSETS</b>		
Other Receivables	251,639	214,092
Tax Recoverable	-	-
Fixed Deposits with Licensed Banks	6,226,497	25,054,315
Cash and Bank Balances	149,280	594,108
	<b>6,627,416</b>	<b>25,862,515</b>
<b>CURRENT LIABILITIES</b>		
Trade and Other Payables	1,417,341	3,777,302
Taxation	113,944	113,784
	<b>1,531,285</b>	<b>3,891,086</b>
<b>NET CURRENT ASSETS</b>	<b>5,096,131</b>	<b>21,971,429</b>
	<b>7,151,782</b>	<b>24,087,477</b>
<b>FINANCED BY:</b>		
Development Funds	2,768,841	18,002,298
Revolving Funds	532,700	532,700
General Reserve	3,850,241	5,552,479
	<b>7,151,782</b>	<b>24,087,477</b>

### ***INCOME STATEMENT FOR THE YEAR ENDED 31<sup>ST</sup> DECEMBER 2012***

	2012 (RM)	2011 (RM)
Revenue	34,602	35,799
Other Incomes	687,678	958,044
Government Operating Grants	11,500,000	11,500,000
Staff Costs	(11,032,605)	(9,970,886)
Depreciation	(540,985)	(517,146)
Other Operating Expenses	(2,239,454)	(1,730,536)
Surplus for the year before taxation	(1,598,764)	275,275
Tax Expense	(103,474)	(214,611)
Net surplus for the year after taxation	<b>(1,702,238)</b>	<b>60,664</b>

## ***9.0 OTHER ACTIVITIES UNDERTAKEN IN 2012***

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### ***9.1 “MAJLIS BERSAMA JABATAN (MBJ)”***

“Majlis Bersama Jabatan (MBJ)” of NREB consists of twenty eight (28) members, namely, 7 senior management representatives and 21 employees representatives. In 2012, four meetings were held as required by the Terms of Reference of the MBJ. The important issues discussed and agreed during the meetings included quality standards (certification for MS ISO 9001:2008 standard), establishment matters, staff benefits and welfare, staff training and capacity building, mandatory government examinations (PTK and PANS), staff transfer, ICT facilities, staff uniforms and group insurance.

### ***9.2 STAFF ASSEMBLY***

Staff assembly is held regularly to communicate the Board’s activities and achievements, and to bring the staffs together to engage them in all Board’s matters and issues that affect the staff.



Photo 32 : NREB Staff Assembly.

### ***9.3 ACTIVITIES OF KOPESA (NREB STAFF COOPERATIVE)***

KOPESA continued with its activities in 2012, including catering services, recycling, investment, loan facility and supplies of stationary and souvenir items to NREB.



## **9.4 ACTIVITIES OF THE RECREATIONAL AND WELFARE CLUB OF NREB STAFF (KERENA)**

### **(i) Festive Celebration**

- Chinese New Year Celebration 2012 on 21<sup>st</sup> February 2012
- Acara Ngiling Tikai, Majlis Penutupan Gawai on 23<sup>rd</sup> June 2012
- Ramah Tamah Aidilfitri 2012 on 1<sup>st</sup> October 2012

### **(ii) Sport Carnival among NREB Offices**

- The 4<sup>th</sup> NREB Sport Carnival on 21<sup>st</sup> – 23<sup>rd</sup> June 2012 at Kompleks Sukan, Politeknik Mukah.



Photo 33 : Ramah Tamah Aidilfitri Celebration organised by KERENA at 21<sup>st</sup> Floor, Menara Pelita, Kuching.



Photo 34 : Chinese New Year Celebration organised by KERENA



Photo 35 : Group photo for the 4<sup>th</sup> NREB Sports Carnival 2012.



Photo 36 : Pentaque competition.



Photo 37 : Badminton competition.



Photo 38 : Sports Carnival Champion - KERENA Sibuh/Mukah.

**(iii) Other Programmes and Sports Activities Participated by KERENA in 2012**

Besides organised own activities, KERENA also participated in other programmes and sport activities organised either by MAKSAK or other agencies (refer to Table 23).

**Table 23.** Sport activities and other programme participate by KERENA in 2012

NO.	DATE	ACTIVITY	PLACE	ORGANIZER
1.	18 Feb 2012	Larian Kesihatan MAKSAK	Dewan Undangan Negeri (DUN) Compound	JKR
2.	24 Mar 2012	Larian Kesihatan MAKSAK	Loji Batu Lintang	KWB
3.	12 May 2012	Senamrobik & E-Walk	Taman Budaya	DBKU
4.	12 May 2012	Larian Kesihatan MAKSAK	BCCK	Ministry of Tourism
5.	2-13 May 2012	Pertandingan Badminton MAKSAK	Sentosa Sports Centre, Stakan	MAKSAK
6.	26-27 May 2012	Pertandingan Dart	Dewan DBKU	DBKU
7.	17 Jun 2012	Pertandingan Badminton	Arena Sukan	SAR-Alam Indah
8.	21-24 Jun 2012	Pertandingan 10-Pin Bowling	Crystal Superbowl BDC	MAKSAK
9.	6-8 Jul 2012	Pertandingan 10-Pin Bowling	Riverside	MAKSAK
10.	7-8 Jul 2012	Sukan Muhibbah	Miri	Jabatan Alam Sekitar
11.	9-10 Sep 2012	Pertandingan Karom	Dewan MAKSAK, Ong Tiang Swee	MAKSAK
12.	22-23 Sep 2012	Pertandingan Dart	Dewan Wisma Sultan Tengah	Housing Development Cooperation
13.	10 Nov 2012	Bowling Friendlies	Crystal Superbowl BDC	Chemsain



**(iv) Donations and Welfare Contributions**

KERENA has contributed a total amount of RM1,090.00 in 2012 as gifts and donations to 10 NREB staff for the purpose of marriage, the birth of first child, children's academic achievements and gift for hospital visit to members.



Photo 39 : Academic Excellence Incentive for KERENA member's children.



Photo 40 : Incentive for first new born baby of KERENA's member.

## ***10.0 CONCLUSION***

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The year 2012 was a challenging one for NREB as it had to face and surmount numerous complex and emerging environmental issues with limited resources and manpower to maintain and manage a healthy and pristine environment in the State. In developing the State, there is a need to balance between biological diversity conservation and achieving a status of developed State with high income economy. The development of the Sarawak Corridor for Renewable Energy (SCORE) is one case in point and this requires a whole new line of thinking and approaches to ensure holistic solutions used to mitigate the impacts of development to the environment. Good cooperation and smart partnership with other organizations have ensured that the NREB was able to carry out its function efficiently and met its work target for 2012.

The NREB would continue to carry out its duties to ensure the sustainable development, improvement of environmental quality and conservation of the natural resources in the State. This is in line with the State's policy towards achieving sustainable development with the involvement, support and commitment of all the stakeholders.

# APPENDIX I

**Table 12.** Community-based Environmental Programmes organised by NREB in 2012

TITLE OF PROGRAM	PROGRAM DETAILS	REMARKS
Rakan Alam Sekitar (RAS)	1. P.198 Mambong Date : 19 <sup>th</sup> October, 2012 Venue : SMK Tun Abdul Razak	Seminar and sharing information on Kelab PALS for all the secondary schools under Mambong constituency. This is the school component of the RAS programme.
	2. P.199 Serian Date : 7 <sup>th</sup> September, 2012 Venue : Dewan Masyarakat, Kampung Mujat, Serian	Environmental talks to the village folks and school students.
	3. P.202 Sri Aman Date : 28 <sup>th</sup> July, 2012 Venue : Rumah Jaong, Pantu, Sri Aman	Environmental talks to the village folks.
	4. P.208 Sarikei Date : 4 <sup>th</sup> September, 2012 Venue : SJK Min Daik, Meradong	Fashion show using recyclable materials by the school students.
	5. P.220 Baram Date : 15 <sup>th</sup> September, 2012 Venue : Dewan Suarrah Marudi, Baram	Activities conducted were colouring contest for school students and environment talks to the village folks.
Outreach Program	1. Dialogue on Environment and Health Date : 4 <sup>th</sup> to 5 <sup>th</sup> October, 2012 Venue : Rh. KK Edmund Abang, Long Melinau, Mulu, Tutoh	Organized by NREB. Environmental talks by the relevant government agencies and dialogue with the community leaders and village folks.
	2. Outreach Program with the Bau Community Date : 13 <sup>th</sup> November, 2012 Venue : Borneo Tribal Village, Kampung Apar, Singai, Bau	
	3. Taklimat Alam Sekitar Bahagian Miri Date : 14 <sup>th</sup> July, 2012 Venue : NREB Miri	
	4. Environmental Awareness Program For Oil Palm Plantation at Felcra Berhad - Ladang Julau 1 & Julau 2 Date : 21 <sup>st</sup> February, 2012 Venue : Ladang Julau 1 & Julau 2	
	5. Environmental Awareness Program For Oil Palm Plantation at Amalan Pelita Pasai Sdn. Bhd. - Ladang Pelitanah 1, 2 & 3 Date : 22 <sup>nd</sup> February, 2012 Venue : Ladang Pelitanah 1, 2 & 3	
	6. Taklimat Pembakaran Terbuka Bersama Ketua Masyarakat dan Ketua Kaum Kawasan Mukah, Balingian dan Dalat Date : 10 <sup>th</sup> July, 2012 Venue : Bilik Taklimat, Tingkat 1, Menara Pehin Setia Raja, Mukah	



Industrial Outreach Program	1. Industrial Outreach Program Date : 3 <sup>rd</sup> to 4 <sup>th</sup> May, 2012 Venue : New World Suites, Bintulu	Organized by NREB. Attended by staff from oil palm plantations, oil palm mills, government agencies, private companies, individuals and NREB staff.
	2. Ta Ann Outreach Program Date : 26 <sup>th</sup> September, 2012 Venue : Premier Hotel, Sibu	Organized by NREB & Ta An. Attended by staff from oil palm plantations, oil palm mills, government agencies, private companies, individuals and NREB staff.
PLKN	1. Program bersama komuniti PLKN Kem Putra Sentosa, Sematan Siri 1/2012 Date : 14 <sup>th</sup> February, 2012 Venue : Ibu Pejabat NREB, Petra Jaya, Kuching	Activities conducted were talks and 'gotong-royong' with the long house folks.
	2. Program bersama komuniti PLKN Sg. Rait Miri Siri 1/2012 Date : 22 <sup>nd</sup> February, 2012 Venue : Rumah Panjang Nunong, Miri	
	3. Program bersama komuniti PLKN Sg. Rait Miri Siri 2/2012 Date : 11 <sup>th</sup> July, 2012 Venue : Rumah Panjang Linggi, Miri	
Joint-programmes with other agencies/ school	1. Ceramah Pendidikan Keselamatan dan Kebersihan Sungai Date : 17 <sup>th</sup> March, 2012 Venue : Balai Raya, Kpg. Plaman Payang, Jalan Kuching/Serian	Organized by Sarawak Rivers Board. Activities conducted were environmental talks and 'gotong-royong' with the communities.
	2. Kempen Kesedaran Keselamatan dan Kebersihan Sungai Date : 14 <sup>th</sup> April, 2012 Venue : Balai Raya Kpg. Praya, Teng Bukap, Padawan	
	3. Kempen Kesedaran Keselamatan dan Kebersihan Sungai Date : 8 <sup>th</sup> June, 2012 Venue : Dewan Gereja St. Andrew Kim, Kpg. Bobak Sajong, Singai, Bau	
	4. Kempen Kesedaran Keselamatan dan Kebersihan Sungai Date : 21 <sup>st</sup> July, 2012 Venue : Balai Raya, Kpg. Begu, Padawan	
	5. Ceramah Alam Sekitar Date : 18 <sup>th</sup> October, 2012 Venue : Dewan Pustaka, Miri	
	6. Kem Aulad Bestari dan Ceramah Alam Sekitar Date : 14 <sup>th</sup> July, 2012 Venue : Masjid AL-Jabbar, Niah	Organized by SK Kita, Niah and involved the participation from the communities of Niah area.
	7. Program Jangkauan Ilmu di Ba'kalalan Date : 9 <sup>th</sup> - 10 <sup>th</sup> August, 2012 Venue : SK Ba'kalalan	Organized by PUSTAKA, Miri. Programme involved the participation from school students and village folks of Ba'Kalalan area.
	8. Ceramah dan Taklimat Mengenai Cadangan Pelaksanaan Sistem Tagang di Sungai Sunganm, Kpg. Senah Rayang Darul Ehsan Date : 17 <sup>th</sup> April, 2012 Venue : Balai Raya, Kampung Senah Rayang Darul Ehsan	Organized by Department of Agriculture, Sarawak.

## APPENDIX II

**Table 13.** School-Related Activities organised by NREB in 2012

TITLE OF PROGRAM	PROGRAM DETAILS	REMARKS
PALS Monitoring	1. PALS monitoring programme in Southern Region (Kuching - Saratok) Date : Jan 2012 - Nov 2012 Visits : 86 Schools	The PALS monitoring programme is an annual routine to ensure that members of the PALS club receives necessary technical assistance in the operation of the club in schools. In 2012, the membership of this club stood at 326 schools statewide. A total of 240 schools were monitored through field visits and schools which are very remote were monitored only through submission of reports and participation in environmental activities by NREB.
	2. PALS monitoring in the Central Region (Sarikei - Dalat) Date : Jan 2012 - Nov 2012 Visits : 81 Schools	
	3. PALS monitoring in the Central Region (Bintulu - Lawas) Date : Jan 2012 - Nov 2012 Visits : 73 Schools	
PALS Club Recruitment and Withdrawal	New recruitment : 15 primary schools and 5 secondary schools, including :- SK Sematan, SK Sebako, SK Stunggang Melayu, SJK Sungai Tengah, SK Kampung Rembus, SK St. Alphonsus, SK Nanga lbau, SK Methodist, SK Kelawit, SK Sebauh, SJK Tunku, SJK Hua Kwong, SK Batu Niah, SK Merapok, SK Awat-Awat, SMK Bukit Assek, SMK Jalan Oya, SMK Bakun, SMK Tatau, SMK Matang Jaya.	For the duration of January 2012 up to November 2012, a total of 20 new schools were recruited and 23 schools withdrew from the PALS Club programmes due to lack of teachers to coordinate as well as limited resources to sustain the clubs in schools
	Withdrawal: 20 primary schools and 3 secondary schools withdrew from the programme, including :- SK Pasir Pandak, SK Semariang, SK Batu Lintang, SJK St. Paul, SK Pueh, SJK Chung Hua Lundu, SK St. James Quop, SK Dato Traoh Muara Tuang, SK Asajaya Ulu, SK Pendam, SK Abang Man, SK Datuk Bandar Debak, SK Supok, SK Kampung Bakam, SK Sayed Othman, SK Lambir Village, SK Agama Miri, SK Chung Hua Miri, SK Long Tuma, SJK Chung Hua Lawas, SMK DPH Abdul Gapor, SMK Sematan, SMK Marudi.	
PALS Club Grant	1. PALS monitoring programme in Southern Region (Kuching - Saratok) Date : Feb 2012 - Oct 2012 Grant recipients : 34 SK and 19 SMK	Starting year 2012, PALS club maintenance grant we provided for schools to implement and organize environmental education and awareness activities for their students and community nearby. An amount of RM500 was allocated for secondary schools while primary schools received RM300.
	2. PALS monitoring in the Central Region (Sarikei - Dalat) Date : Jan 2012 - Nov 2012 Grant recipients : 34 SK and 28 SMK	
	3. PALS monitoring in the Central Region (Bintulu - Lawas) Date : Jan 2012 - Nov 2012 Grant recipients : 35 SK and 24 SMK	For the year 2012, a total 174 received the grant amounting to a total of RM66,400.00 was distributed as grant for PALS club schools.

NREB - PALS club teachers meeting	Meetings were held at Betong, Sibul, Kapit, Mukah, Bintulu, Miri, Limbang and Lawas  Total number of teachers participated : 166 teachers	Meetings with teachers are conducted to determine types of programmes that are suitable for students and teachers throughout the year as the requirement and level of understanding of the target group in different areas varies.
PALS workshops	1. Bengkel Alam Sekitar Mukah Date : 19 <sup>th</sup> May, 2012 Venue : SK Dua Sungai, Mukah	Workshops are organised to enable students and teachers to gain new hands on experience in the education of environmental concepts and management. They are mainly for primary school children who are unable to undergo overnight programmes. The modules used are simpler and can easily be implemented in school.
Eco-Camp	1. Eco-Camp Mukah Date : 3 <sup>rd</sup> - 5 <sup>th</sup> March, 2012 Venue : Kem Belia Mukah  2. Eco-Camp Miri Date : 23 <sup>rd</sup> - 26 <sup>th</sup> June, 2012 Venue : Borneo Tropical Rainforest Resort, Niah	
Environmental talk	1. UiTM Science Fair Date : 16 <sup>th</sup> February, 2012 Venue : UiTM Campus, Kota Samarahan  2. Ceramah Alam Sekitar Bersama SMK Kampung Nangka, Sibul Date : 18 <sup>th</sup> April, 2012 Venue : SMK Kampung Nangka, Sibul  3. Ceramah Alam Sekitar Bersama SMK Kampung Petanak, Mukah Date : 19 <sup>th</sup> April, 2012 Venue : SMK Kampung Petanak, Mukah  4. Ceramah Alam Sekitar "Open burning" Date : 9 <sup>th</sup> - 10 <sup>th</sup> May, 2012 Venue : Maktab Sains Rendah, Mukah  5. Ceramah Kem Muhibah, Mukah Date : 18 <sup>th</sup> - 19 <sup>th</sup> May, 2012 Venue : SK Sungai Dua and SMK Ulu Balingian  6. Ceramah Alam Sekitar Date : 19 <sup>th</sup> June, 2012 Venue : SMK Bukit Assek, Sibul	
Environmental day celebration	1. Azam Earth Hour Practice : "Kuching Youth Day Out" Date : 31 <sup>st</sup> March, 2012 Venue : Kuching Waterfront Go Down Amphitheater  2. Minggu Alam Sekitar SK RPR Astana Date : 7 <sup>th</sup> - 9 <sup>th</sup> May, 2012 Venue : SK RPR Astana, Kuching	



Inter-agency Environmental Education activities	1. Narative workshop on Eco-Institute for Teacher's Training Institutes by WWF Date : 21 <sup>st</sup> - 24 <sup>th</sup> February, 2012 Venue : Sepang, Kuala Lumpur	
	2. Kem Mesra Alam 1/2012 Date : 3 <sup>rd</sup> - 4 <sup>th</sup> March, 2012 Venue : Niah National Park, Miri	
	3. Projek Perintis Pengasingan Sampah Bersama SK Matang Jaya oleh Trienekens Date : 2 <sup>nd</sup> April, 2012 Venue : SK Matang Jaya, Kuching	
	4. Eco- School Committee Meeting Date : 9 <sup>th</sup> April, 2012 Venue : Citrus Hotel, Kuala Lumpur	
	5. Perkhemahan Alam Semula Jadi Bersama Jabatan Pelajaran Negeri Sarawak Date : 24 <sup>th</sup> - 25 <sup>th</sup> April, 2012 Venue : Kubah National Park, Kuching	
	6. Bintulu 3R contest with Asian Bintulu Date : 26 <sup>th</sup> - 27 <sup>th</sup> April, 2012 Venue : Wisma BDA, Bintulu	
	7. Kem Lestari Date : 27 <sup>th</sup> April, 2012 Venue : SMK St. Columba	
	8. Kem Mesra Alam 2/2012 Date : 12 <sup>th</sup> - 13 <sup>th</sup> May, 2012 Venue : Niah National Park, Miri	
	9. Eco - school Coordinators workshop Date : 14 <sup>th</sup> - 16 <sup>th</sup> May, 2012 Venue : Kuala Lumpur	
	10. Judging of Eco Multimedia And Poster Designing Competition Date : 27 <sup>th</sup> June, 2012 Venue : Kolej Datu Patinggi Haji Abdillah, Kuching	
	11. EE Race Observation Date : 1 <sup>st</sup> - 7 <sup>th</sup> July, 2012 Venue : Rainforest Discovery Centre, Sandakan	

## APPENDIX III

**Table 14.** Publicity activities and environmental awards organised by NREB in 2012

TYPE OF PROGRAM	PROGRAM DETAILS	DATE / VENUE
Exhibitions	1. Earth Hour Exhibition	30 <sup>th</sup> March, 2012 PTPL College, Kuching
	2. Earth Hour Exhibition	31 <sup>st</sup> March, 2012 Kuching Waterfront
	3. Pameran Sempena Minggu Alam Sekitar SMK Batu Kawa	26 <sup>th</sup> April, 2012 SMK Batu Kawa, Kuching
	4. Expo Hijau dan 3R Miri	20 <sup>th</sup> May, 2012 Stadium Terbuka, Miri
	5. Environmental Exhibition	19 <sup>th</sup> June, 2012 SMK Bukit Assek, Sibu
	6. Eco Multimedia And Poster Designing Competition	27 <sup>th</sup> - 28 <sup>th</sup> June, 2012 Kolej Datu Patinggi Haji Abdillah, Kuching
Awards	1. SERASI 2012/2013 Award Launching Ceremony	11 <sup>th</sup> May, 2012 Eastwood Valley Golf and Country Club, Miri
	2. The Sarawak Chief Minister's Environmental Award (CMEA) 2011/2012 presentation ceremony	30 <sup>th</sup> November, 2012 Pullman Hotel, Kuching

**APPENDIX IV****Table 15. Winners of CMEA 2012****1) LARGE ENTERPRISE**

<b>CATEGORY</b>	<b>COMPANY</b>
a) Manufacturing, manufacturing - related Services and Agro-based Industries	HGST Malaysia Sdn. Bhd
b) Services, Primary Agriculture and Information & Communication Technology (ICT) - Services	Tanjung Kidurong Power Station
c) Services, Primary Agriculture and Information & Communication Technology (ICT) - Forwarding, Transportation and Logistics	Bintulu Port Sdn. Bhd.
d) Services, Primary Agriculture and Information & Communication Technology (ICT) - Construction	Naim Holdings Berhad
e) Oil and Gas	Malaysia LNG Sdn. Bhd.

**2) MEDIUM ENTERPRISE**

<b>CATEGORY</b>	<b>COMPANY</b>
a) Services, Primary Agriculture and Information & Communication Technology (ICT) - Services	Sibu Water Board
b) Services, Primary Agriculture and Information & Communication Technology (ICT) - Forwarding, Transportation and Logistics	Miri Port Authority
c) Services, Primary Agriculture and Information & Communication Technology (ICT) - Hotel	Hilton Kuching

**3) SMALL ENTERPRISE**

<b>CATEGORY</b>	<b>COMPANY</b>
a) Services, Primary Agriculture and Information & Communication Technology (ICT) - Restaurant	Rock Road Seafood Restaurant
b) Services, Primary Agriculture and Information & Communication Technology (ICT) - Gas / Petrol Station	Petronas Service Station Samarahan Expressway

**4) GOVERNMENT AGENCIES**

<b>CATEGORY</b>	<b>COMPANY</b>
a) Local Authorities - Municipal and City Councils	Miri City Council

## APPENDIX V

**Table 16.** List of schools selected to participate in the SERASI Award 2012/2013

REGION	PARTICIPATION	
	SECONDARY	PRIMARY
<b>Southern Region (Kuching, Samarahan, Sri Aman and Betong Divisions)</b>	1. SMK Siburan 2. SMK Batu Lintang 3. Kolej Datu Patinggi Abang Haji Abdillah 4. SMK Matang Jaya 5. SMK Tun Abdul Razak 6. SMK Sungai Maong 7. SMK Padawan 8. SMK Bau 9. SMK Saratok	1. SK Gita No.2 2. SK St. Edward Belimbing 3. SJK Sungai Tengah 4. SK Kampung Senari 5. SK Serian 6. SK Abang Abdul Rahman
<b>Central Region (Sarikei, Sibu, Kapit and Mukah Divisions)</b>	1. SMK Luar Bandar No.1 Sibu 2. SMK Bandar Sibu 3. SMK Sungai Merah 4. SMK Tung Hua	1. SJK (C) Kai Chung 2. SJK (C) Ming Tee
<b>Northern Region (Bintulu, Miri and Limbang Divisions)</b>	1. SMK Bandar Bintulu 2. SMK St. Columba	1. SK Senadin 2. SK Kita 3. SK Beliau Isa 4. SJK Kampung Kuala Sibuti 5. SJK (C) Chung Hua Sibuti 6. SJK Chung Hua Bintulu 7. SK Sebauh 8. SK Kampung Jepak 9. SK Kidurong
<b>Participation</b>	<b>15 schools</b>	<b>17 schools</b>



## APPENDIX VI

**Table 21.** Types of external training attended by NREB's staff in 2012

NO.	TRAINING	DATE	NO. OF DAYS	VENUE	TECHNICAL	NON-TECHNICAL
A.	COURSE					
1	Kursus Fasilitator (KIK) Dan Sesi Taklimat Pegawai Penyelaras Program Inovasi Dan Kualiti Setiap Agensi Perkhidmatan Awam Negeri Sarawak	18.1.2012	1	Dewan Kompleks Islam Sarawak		√
2	Latihan "State Dynamic Website Template"	2.2.2012	1	SAINS	√	
3	Kursus Pemandu Cemerlang	7-9.2.2012	3	INTAN Kampus, Sarawak		√
4	Microsoft Excel (Elementary & Intermediate) Course	8-9.2.2012	2	SAINS	√	
5	Kursus Modul Induksi Umum Kumpulan II	1-9.3.2012	9	CMM		√
6	Kursus Microsoft Excel (Advanced)	15-16.3.2012	2	SAINS	√	
7	Kursus Analisa Data Dengan MS Excel	19-21.3.2012	3	MKM	√	
8	Kursus Perkhidmatan Kaunter & Komunikasi Pelanggan	22.3.2012	1	Grand Margherita Hotel, Kuching		√
9	Kursus Pentadbiran & Pengurusan Gaji yang Efektif	22-23.3.2012	2	Dorsett Regency Hotel, KL		√
10	Kursus Pembangunan Pemandu Cemerlang	23.3.2012	1	Grand Margherita Hotel, Kuching		√
11	Kursus Pengurusan Mesyuarat, Penulisan Minit, Memo Surat Rasmi & Email Rasmi	9-10.4.2012	2	Grand Margherita Hotel, Kuching		√
12	Kursus Pembantu Tadbir Profesional	26-27.4.2012	2	Grand Margherita Hotel, Kuching		√
13	Kursus Microsoft Excel (Elementary & Intermediate)	10-11.5.2012	2	SAINS	√	
14	Kursus Membina Pangkalan Data dengan MS Access	7-10.5.2012	4	MKM	√	
15	Kursus Pengukuhan Pasukan	14-17.5.2012	4	Kem Permai, Santubong		√
16	Microsoft Excel (Functions & Formulas)	28-29.5.12	2	SAINS	√	
17	Kursus Pengurusan Stor dan Stok	29-30.5.12	2	MPC Sarawak		√
18	Kursus Pemandu Cemerlang	2-4.7.2012	3	INTAN Kampus, Kota Samarahan		√

19	Kursus "Managing Customer Needs Through The Transformation of Counter Service"	9-10.7.12	2	CMM, Kuching		√
20	Course on Organising Successful Events and Functions	17.7.2012	1	Harbour View Hotel, Kuching		√
21	Traning on ARCGIS Desktop 10 - Beginner	1-3.8.2012	3	SAINS	√	
22	Traning on ARCGIS Desktop 10 - Intermediate	14-16.8.12	3	SAINS	√	
23	Traning on ARCGIS Desktop 10 - Beginner	3-5.9.12	3	SAINS	√	
24	Traning on ARCGIS Desktop 10 - Intermediate	19-21.9.12	3	SAINS	√	
25	Kursus Analisis Keperluan Latihan	18-20.9.12	3	INTAN, Sabah		√
26	Kursus Pembangunan Individu dan Organisasi Berintegriti (PIBO)	19-21.9.12	3	Hotel Kemena Plaza, Bintulu	√	
27	Kursus Penyeliaan Berkesan	24-27.9.12	4	Kampus INTAN, Kuching		√
28	Training on AUTOCAD 2013 - Essential	8-10.10.12	3	SAINS	√	
29	Training on AUTOCAD 2013 - Intermediate	22-24.10.12	3	SAINS	√	
30	Kursus Better Spoken English	29.10-2.11.12	3	INTAN Kampus, Kota Samarahan		√
31	Kursus Mentor untuk Perkhidmatan Awam Negeri	5-7.11.12	3	CMM, Kuching		√
32	Program Latihan Pemeriksaan 'Best Management Practices' (BMPs) Secara Hands On	3-5.12.12	3	Wisma STA	√	

<b>B. SEMINAR</b>						
1	Biotechnology Seminar	24-25.2.12	2	Pullman Hotel, Kuching	√	
2	Simposium Maklumat Geospacial Kebangsaan Ke-5	21-22.5.12	2	Pusat Konvensyen Antarabangsa Putrajaya		√
3	Seminar Jawatankuasa Keutuhan Tadbir Urus (JKTU)	18-19.6.12	2	Hotel Premier Sibu		√
4	Seminar Psikologi	29.5.12	1	Dewan Santapan	√	
5	ArcGIS Seminar "Extend the Reach of Your GIS"	28.6.2012	1	Riverside Majestic Hotel, Kuching		√
6	Seminar Keselamatan Kebakaran	29.5.2012	1	Hotel Riverside Majestic	√	
7	Seminar Kewangan dan Pengauditan Sektor Awam	28-30.8.12	3	Hotel Grand Borneo, Kota Kinabalu	√	
8	Seminar on Geotextile Containment Systems for Marine & Hydraulic Applications	29.11.12	1/2	Swinburne Universiti of Technology	√	
9	National Seminar on The Protection of Geographical Indications	6-7.11.12	2	Hotel Hilton, Kuching	√	
10	Pengawasan Kualiti Air Sungai	26-30.11.12	5	Grand Paragon Hotel, Johor Bahru	√	
<b>C. WORKSHOP</b>						
1.	Bengkel Pemantapan Laman Web Agensi Kerajaan Negeri 2012	19.3.2012	1	ICT Unit, JKM	√	
2.	Workshop on Malaysia's Redd+ Readiness Project: Component 1 Institutional Framework for Sarawak	2-3.8.12	1	Hotel Hilton, Kuching	√	
3.	5S and Lean 5S Auditor (Green-Belt) Training Workshop	10-11.9.12	2	Riverside Majestic, Kuching		√
4.	Spatial Data Hosting and Retrieval System (SHARES) Workshop	27-28.11.12	2	Damai Beach Resort	√	

<b>D.</b>	<b>CONFERENCE</b>					
1	The International Energy Conference 2012	16-17.10.12	2	BCKK, Kuching	√	
<b>E.</b>	<b>CONVENTION</b>					
1.	The Secretaries & Administrative Professionals Convention	11-12.4.2012	2	Grand Margherita Hotel, Kuching		√
2.	Symposium Maklumat Geospasial Kebangsaan (NGIS) Ke-5	21-22.5.2012	2	Pusat Konvensyen Antarabangsa Putrajaya	√	
3.	Konvensyen Kumpulan Inovatif dan Kreatif (KIK) Perkhidmatan Awam Peringkat Negeri Sarawak Tahun 2012	11-12.9.2012	2	Pullman Hotel, Kuching		√
<b>F.</b>	<b>TALK/DIALOGUE/FORUM</b>					
1.	Borneo Heritage Symposium 2012: Advanced Technologies for Culture and Heritage Management	16.2.2012	1	deTAR UNIMAS		√