

SAINT LUCIA SOLID WASTE MANAGEMENT AUTHORITY

ANNUAL REPORT

2014-2015



Mission Statement

*To enhance Saint Lucia's
environmental integrity and health
and safety of her people through
the provision and management
of an integrated system for
public education and awareness
and for the collection, treatment,
recycling and disposal of solid waste
and hazardous waste*



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APRIL 2014 – MARCH 2015

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Board of Directors



Mr. Sylvester Clauzel
*Permanent Secretary, Ministry of Sustainable
Development, Energy, Science and Technology*



Mr. Ross Gardner
*Representative,
Saint Lucia Chamber of Commerce*



Mr. Reginald St. Juste
Minister's Appointee



Mr. Noorani Azeez
*Representative,
Saint Lucia Hotel & Tourism Association*



Ms. Luvette Louisy
Minister's Appointee



Mr. Urban Clovis
Minister's Appointee



Mr. Augustin Cadette
*Permanent Secretary, Ministry of Social
 Transformation, Local Government &
 Community Empowerment*



Ms. Cointha Thomas
*Permanent Secretary, Ministry of Health, Wellness,
 Human Services and Gender Relations*



Mr. Justin Sealy
*Representative,
 Association of Professional Engineers
 Of Saint Lucia*



Ms. Jan Drysdale
*Representative,
 Nominee of the Attorney General*



Mr. Francis Fontenelle
*Director,
 Ministry of Finance & Economic Affairs*

Head Office



Mr. Laurianus Lesfloris
Deputy General Manager



Mr. Dunley Auguste
General Manager



Mr. Atkinson Alcide
Accountant



Mrs. Arlett Monrose-Ruiz
Administrative Assistant



Ms. Emlyn Jean
Education & Public Information Manager



Ms. Marva Hippolyte
*Education & Public
Information Assistant*



Mrs. Julien St. Helen-Fontenelle
Accounting Assistant



Ms. Janet Niles
Office Assistant

Deglos Sanitary Landfill



Mr. Burke Leonce
Zonal Supervisor



Ms. Marie Dalsan
Landfill Manager



Mr. Cassian Henry
Zonal Supervisor



Mr. Peter Biscette
Heavy Equipment Operator



Mrs. Cristal Smith-Peter
Weighbridge Attendant



Mr. Davis Mathurin
Weighbridge Attendant



Mr. Densroy Williams
Heavy Equipment Operator



Mr. Verl Emmanuel
Spotter



Mr. Cornelius Montoute
Spotter



Mr. Jonas Jeremy
Landscaper



Mr. Allan Paul
Spotter



Mr. Joseph Jules
Spotter



Mr. Dannelle Mitchel
Landscaper

Vieux Fort Solid Waste Management Facility



Ms. Wendy Eristhee
Zonal Supervisor



Mr. Davis Poleon
Zonal Supervisor



Mr. Linus McFarlane
Heavy Equipment Operator



Mr. Shilton Charles
Weighbridge Attendant



Ms. Selma Ferdinand
Weighbridge Attendant



Mr. Peter Talla
Heavy Equipment Operator



Mr. Curtis Isidore
Spotter



Mr. Sylvester George
Spotter

Chairman's Message



The Saint Lucia Solid Waste Management Authority (SLSWMA) continued the implementation of plans to secure the long term efficiency and sustainability of the organization and the landfills it manages during the fiscal period 2014-15. Given its core mission of enhancing Saint Lucia's environmental integrity, the SLSWMA attempted to expand its collaboration with key government and private sector partners during this period.

The impact of irresponsible disposal of garbage and general litter by both private citizens and some corporations continue to challenge the SLSWMA. These were responded to with the necessary operational adaptations to ensure that the organization continues to make a meaningful impact on the long-term quality of our environment resulting in an improvement in healthy conditions and the general aesthetics of Saint Lucia. However, it became clear that there was need for a complete reworking of our waste management strategies and revision of our public relations and education strategy.

Led by the Board of Directors the following major accomplishments positioned the Authority to better execute the development needs of the organization and improve on the execution of its mandate.

1. A new board was appointed effective August 1st 2014 to govern the affairs of the Authority over the subsequent next three years.
2. The introduction of an excise tax on the importation of tyres to facilitate capital works at the Deglos Sanitary Landfill
3. Completion of repairs and the upgrading of the electrical system at the Deglos Sanitary Landfill thus facilitating the commissioning and operation of the tyre shredder. This is expected to reduce and recycle the over one million tyres which have accumulated at both landfills over the past 10 years.
4. Commencement of a waste analysis and waste management study for Saint Lucia to better inform the pricing of contracts to waste haulers and to develop a new waste diversion strategy and plan. This plan is expected to result in more optimal operations of the curb-side garbage collection programme; a phased introduction of curb-side collection of recyclables; improved management of all containers which end up in the landfill or on the sides of our roads; and a more targeted public education programme.
5. Development and improvement of governance policies and procedures to foster greater accountability with respect to the resources of the Authority. This resulted in the development and approval of the Financial Management Policy and Procedures and a complete review of the Human Resource Policy.

The SLSWMA expects to continue to improve its services and develop long term solutions for effective solid waste management as the organization continues to fulfill its responsibility to safeguard the integrity of the environment against the negative impacts of poor solid waste disposal practices; and to provide a reliable and efficient management of solid waste, in general, on the island.

Thank you to the Board of Directors, Management and Employees for their contribution and support towards another successful year. With their continued involvement and support we look forward to another rewarding year.

On behalf of the Board of Directors, Management and staff, I am honoured to present the Authority's Annual Report for fiscal year ended March 31, 2015.

Executive Summary

The Fiscal period 2014-2015 built upon the progress made during the previous comparable period in terms of defining the challenges presented and addressing them systematically in an effort to place the Authority in a position to address its development in terms of Waste management.

A new Board was appointed effective 1st August 2014, to govern the Authority over the next three year term. The appointments ended a six month lapse in Board activity, delaying deliberation on some issues that included the completion and approval of policies, debt settlement, and the resolution of the financing mechanisms to facilitate programme development.

The introduction of an excise tax on the importation of tyres in November of 2014 served to facilitate needed capital works at the Deglos Sanitary Landfill. The measure was delayed as it needed to coincide with the implementation of HS 2012 by the Customs and Excise Department. Though the yield of the revenue measure was not immediately available to the Authority access to the required financial resources were facilitated by central government through advances to be retired by the Authority. The revenue measure will have a significant positive impact on the financial stability of Agency. Notwithstanding the improvement in revenue anticipated with the implementation of the 2013 decisions of the Cabinet of Ministers, deductions to the revenue derived from the Environmental Levy reflected a sharp increase during the reporting period. The matter is to be investigated.

The Dispute Adjudication Board (DAB) decision against the Authority remains a troubling issue, as settlement of a significant sum drew nearer, following the ruling of a local court that though not involving the Authority had serious implications for its financial status. The recent court decision determined the recipient of the outstanding settlement from the Authority. Deliberations continue to determine how that settlement will be implemented.

There has been a prolonged delay in the implementation of amendments proposed to the Waste Management Act, the review and revision of the Management of Containers Bill,

and the development of a regulation to legitimize the fee structure for services rendered by the Authority.

The Financial Management Policy and Procedures was completed and approved by the Board of the Authority. The revised Human Resource Management Policy, and the Procurement policy and Guidelines, are undergoing final review before being presented to the Board for approval.

The Authority continued to participate in the discussions surrounding the feasibility of utilizing a Waste to Energy facility as a means of contributing to the achievement of the national target of providing thirty five percent (35%) of Saint Lucia's energy needs from renewable sources. The Request for Qualification (RFQ) attracted much interest from suppliers but its feasibility seemed doubtful considering the quantity of waste generated in Saint Lucia given the cost of the tried and tested technologies. The approach would have the added benefit of reducing the need for valuable lands to be deployed for the establishment of landfills. Consideration is being given to the approach of an integrated waste management system as an alternative approach to the Waste to Energy facility.

The repair and upgrading of the electrical system at the Deglos Sanitary Landfill was achieved by April 2015, paving the way for the commissioning and full operation of the tyre shredder purchased three years before. This is expected to progressively reduce the accumulated tyre pile, and consequently the threat of vector breeding and development, particularly of mosquitos. It is anticipated that full operation of the shredder will be achieved in the following fiscal period.

The Authority continues to look forward to the procurement of replacements for the aged and inefficient landfill equipment. Frequent breakdowns and high maintenance costs provide ample justification for investing in new machines. The large capital outlay required is the main impediment to the procurement. It is hoped that improved financing will allow procurement.

Waste collection contracts are due to begin expiration at the beginning of the next financial year. A process has been initiated to establish baseline costs to assist in the evaluation of bids anticipated following the onset of the next bidding process. Waste

collection contractors have indicated that the current price of service had not been adjusted to reflect the rising cost of maintenance and the increasing demand of service during the contract period. The Authority was not able not accede to a request for an upward adjustment in contract price at the appointed e mid contract point. It is anticipated that there would be a delay in implementation of a new contracting period as the relevant information is generated to ensure that a fair.

The Authority has decided to recruit an Industrial Relations Consultant to assist in the conduct of negotiations of a proposed Collective Agreement proposed by the Civil Service Association (CSA) on behalf of staff,

The Saint Lucia Solid Waste Management Authority looks forward to a productive 2015-2016 fiscal year, facilitated by a positive revenue performance.



Administration Department

OVERVIEW

The Administration Department continued providing support to the various departments to ensure that information is disseminated effectively. The department also maintains a filing system to guarantee that correspondence is easily retrieved for further reference.

The Department also continued to offer its support to the Board of Directors by informing members of scheduled meetings, processing of minutes of Board meetings and the preparation of documents for the Board and its Committee meetings.

The term of the Board of Directors expired near the end of the 2013-2014 fiscal period. A new Board was appointed effective 1st August 2014. The following tables summarize Board and Board Committee meetings facilitated and members' attendance at those meetings for the period under review:

BOARD MEETING ATTENDANCE

Name	Meetings Attended	
	Number Held	Number Attended
Mr. Sylvester Clauzel	3	2
Ms. Cointha Thomas	3	3
Mr. Francis Fontenelle	3	2
Ms. Jan Drysdale	3	2
Mr. Augustus Cadet	3	1
Mr. Noorani Azeez	3	2
Mr. Justin Sealy	3	2
Mr. Ross Gardner	3	1
Mr. Reginald St. Juste	3	2
Ms. Luvette Louisy	3	2
Mr. Urban Clovis	3	3

Finance Committee Meeting Attendance

NAME	Number Held	Number Attended
Mr. Francis Fontenelle	2	2
Mr. Ross Gardner	2	2
Mr. Reginald St. Juste	2	0
Mr. Sylvester Clauzel	2	2

Human Resource Committee

Name	Meetings Attended	
	Number Held	Number Attended
Ms. Cointha Thomas	3	3
Mr. Urban Clovis	3	3
Mr. Noorani Azeez	3	2
Mr. Sylvester Clazel	3	0

Legal Committee Meeting

Name	Meetings Attended	
	Number Held	Number Attended
Ms. Jan Drysdale	2	2
Ms. Cointha Thomas	2	2
Ms. Sallyane Cotter	2	0

Technical Committee Meetings

Names	Meetings Attended	
	Number Held	Number Attended
Mr. Justin Sealy	2	2
Ms. Luvette Louisy	2	2
Mr. Ross Gardner	2	0
Mr. Augustus Cadette	2	2
Mr. David Hippolyte	2	2

Training Workshops

The Authority embraces every opportunity which becomes available to offer training for its staff to ensure that they possess the required knowledge which would enable them to contribute meaningfully towards the Authority meeting its mandate.

During the period under review, staff of the Authority participated in the following training programmes:-

Period	Name	Mission	Sponsor	Host Country
June 11 – June 24, 2014	Laurianus Lesfloris	Workshop on Waste Management & Resource Recycling	Ministry of Foreign Affairs, Republic	Taiwan
Aug. 18 – Sept. 13, 2014	Wendy Eristhee	Management of Composting	JICA	Japan
Oct.15 – Nov., 29, 2014	Mr.Shilton Charles	Sustainable Solid Waste Management in CARICOM Islands	JICA	Japan

Waste Haulage Licenses

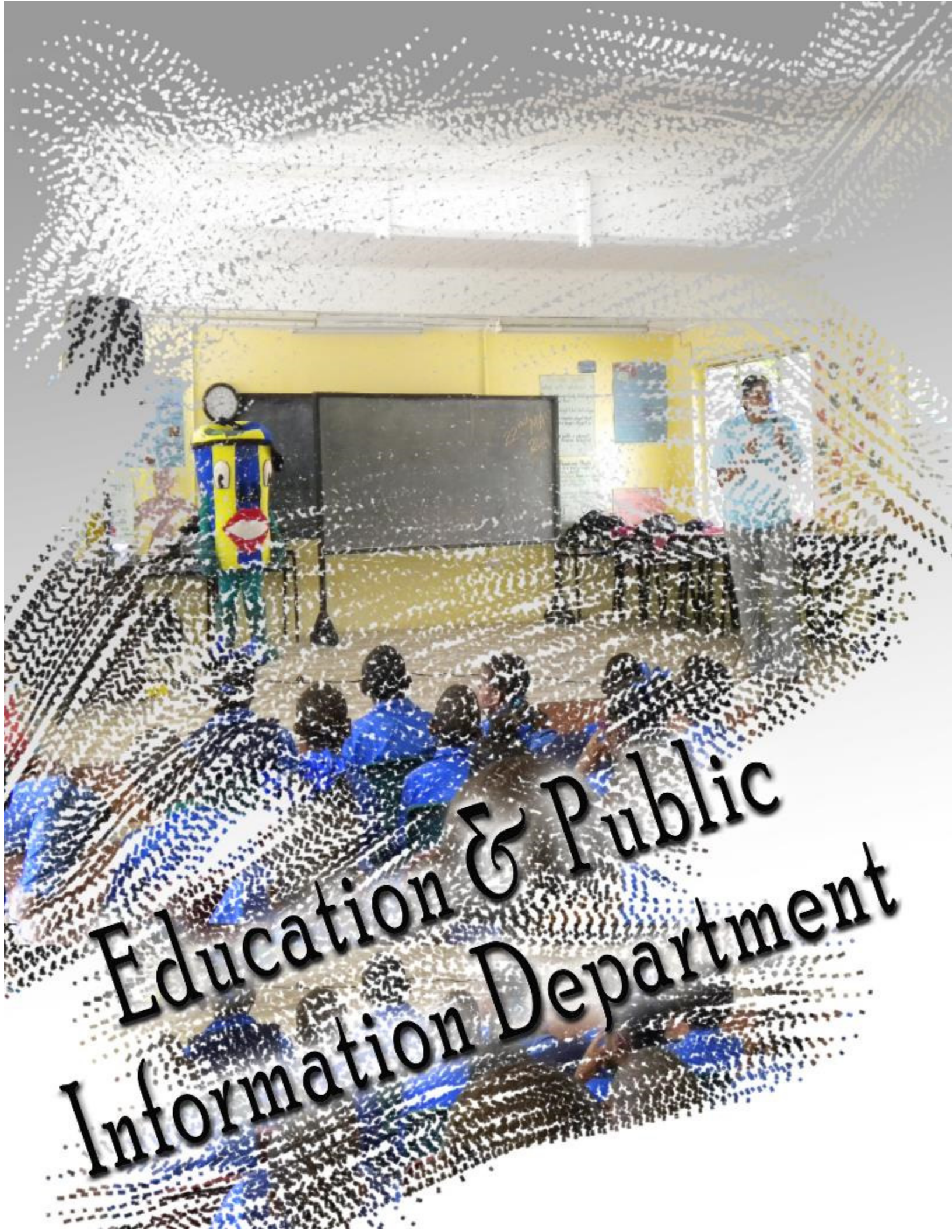
The Authority issued waste haulage licenses to twenty (20) persons hauling waste to the Deglos Sanitary Landfill and the Vieux Fort Solid Waste Management Facility during the year. This includes six (6) waste haulers/contractors employed by the Authority and fourteen (14) private waste haulers.

Extra-Curricular Activities

Creole Day Breakfast/ Baby Shower

In observance of Journen Creole celebration, the Authority hosted a breakfast and lunch for its staff. This celebration was further enhanced with a Baby shower for a staff member at its Head Office.





Education & Public
Information Department

OVERVIEW

During fiscal year 2014 – 2015 the Authority through its Education and Awareness Programme continued efforts to improve solid waste management practices among the various publics. Despite the challenging environment, the department remained focussed on empowering the public with the necessary knowledge and skills to make informed decisions and take responsible action with respect to the manner in which solid waste is managed at the individual, household, community and national level.

Given the negative impacts of poor solid waste management on other sectors, the Authority also collaborated with a number of agencies in fulfilment of its education and awareness mandate. Some of the collaborating agencies during the period under review included the following:

1. Ministry of Sustainable Development, Energy, Science and Technology;
2. Ministry of Health, Wellness, Human Services and Gender Relations;
3. PCI Media Impact;
4. Programme for the Regularization Of Unplanned Development of the Ministry of Physical Development, Housing and Urban Renewal;

Initiatives were generally achieved through the following: production of the quarterly newsletters, maintenance of website and facebook page, public service announcements, participation during radio talk shows, flyer/brochure/letter distribution, community clean-up activities, community meetings, lectures/presentations, information expositions, impromptu radio/television interviews, community/house to house visits, waste management facility visits, mascot appearances and use of community crier.

Community Outreach

In collaboration with zonal supervisors, a number of communities were targeted through house-to-house visits, letter/flyer/brochure drop-offs and to a lesser extent the community crier. These initiatives sought to minimize noncompliance associated with the presence of communal bins and collection points. Some of the targeted communities included Trou

Tigre, Gros-Islet; Postlewaite, Gros-Islet; Xenon, Soufriere; and Cedar Heights, Vieux-Fort. Others benefitted from community meetings and or presentations. A full listing of communities/groups benefitting from meetings/presentations is highlighted in Table 1.

One notable collaborative effort included training sessions for staff of the National Conservation Authority during a conservation training workshop hosted by the Ministry of Sustainable Development, Energy, Science and Technology designed to develop in staff an understanding of their role in conservation and management of the islands natural resources. The four sessions conducted included a presentation followed by field trips to the Deglos Sanitary Landfill for northern participants and the Vieux-Fort Solid Waste Management Facility for participants in the south.

Another initiative included a series of presentations conducted to community nursing staff e.g. nurses, health aides, mental health aides, attendants, psychiatric aides etc. attached to Health and Wellness Facilities throughout the island. The initiative was geared towards equipping community nursing staff with information about solid waste management and the work of the Authority thereby empowering them to contribute to education and awareness in the communities in which they serve.

The Authority also collaborated with other government agencies and participated during the following information expositions:

Agency	Observance	Target Community
Ministry of Sustainable Development, Energy, Science and Technology	World Environment Day	Castries City
Ministry of Health, Wellness, Human Services and Gender Relations	Health and Wellness Day	Soufriere
Environmental Health Department (Region 6)/Choiseul Credit Union	Credit Union Month	Choiseul

Through a display of posters and distribution flyers, brochures and other paraphernalia the public was sensitized on the management of various categories of solid waste,

negative impacts of poor solid waste management, benefits of a clean environment and safe practices for solid waste management.

School/Youth Outreach Programme

Presentations were undertaken as a single entity or in collaboration with partner agencies. PCI Media Impact continued to be the main partner for the school programme. Ten (10) schools benefitted from the collaborative effort with PCI Media Impact which also included a mascot presentation. Another four (4) schools benefitted from seven (7) presentations as part of youth summer programmes. Presentations highlighted littering a poor waste management practice which remains a major issue for the country, the benefits of proper solid waste management practices and the impacts of poor solid waste management practices on the environment. A full listing of school/youth presentations can be viewed in Table 2.

Community Clean-up Activities

Community groups throughout the island continued to mobilize members to undertake clean-up activities as part of efforts to promote volunteerism and ownership of communities. These the Authority supported as efforts were an indication of awareness and action towards maintaining a clean environment.

During fiscal year 2014-2015 the Authority provided garbage bags and gloves towards thirty-seven (37) community clean-up activities (Table 3). Waste was transported either by the solid waste collection contractors employed by the Authority or a community volunteer. The services of a private contractor was sought and financed by the SLSWMA in cases where solid waste haulers for the area or volunteers were unable to undertake the collection and transportation of solid waste.

A major clean up activity was undertaken in all communities of Dennery North as part of efforts to minimize the mosquito population and sensitize residents about the chikungunya virus. The activity spearheaded by the Environmental Health Department

was undertaken in collaboration with the Saint Lucia Solid Waste Management Authority, Dennerly North Youth and Sports Council, Dennerly North Constituency Council and residents. The Authority participated during the planning as well as the implementation stage of the activities. All garbage bags and gloves were sponsored by the Authority. A donation of fifteen cases of water was also sourced and received from Consolidated Foods Limited.

Another major clean-up initiative was undertaken by the Saint Lucia Hotel and Tourism Association (SLHTA). The SLHTA successfully mobilized public and private sector interests to clean-up and beautify the Rodney Bay Village. The Authority provided logistical support and garbage bags towards the activity. Going forward the SLHTA intends to install litter bins in that area and sponsor a regular pick up of waste and clean-up of the Rodney Bay Village.

Tours of Deglos Sanitary Landfill and Vieux-Fort Solid Waste Management Facility

Tours of the Deglos Sanitary Landfill and the Vieux-Fort Solid Waste Management Authority were facilitated upon request. Visitors comprised mainly students and few representatives of private and public entities. For students, tours served to enhance the teaching/learning experience with respect to pollution, landfill operations and management and solid waste management specific to the island of Saint Lucia. During the period under review approximately five hundred (501) visitors were accommodated during twenty-three (23) tours (Table 4). Visitors under the period under review also included Senator, Honourable Dr. James Fletcher, Minister for Sustainable Development, Energy, Science and Technology and the Board of Directors of the Authority.

Electronic Media

Public Service Announcements (PSAs)/Press Releases/Impromptu Media Interviews

Due to budgetary constraints few television and radio public service announcements were aired during the period under review. The bulky waste PSA was however aired during the

months of November and December while the Christmas PSA was aired during the month of December. The airing coincided with the increase in the volume of solid waste generated during that time of year.

A limited number of press releases and impromptu media interviews highlighting various waste management issues or activities of the Authority were utilized. Impromptu media interviews were conducted by reporters in response to press releases received or public sentiments as it pertains to solid waste management issues in the communities.

Additionally, the Authority was featured on three talk shows namely 'Chit Chat' on The Wave, 'A Higher Perspective' on Prayz FM, and 'Zafe Nou en Ste Lucie' a simulcast talk show hosted by Real FM and MBC Television. The talk shows facilitated the discussion of various environmental and waste management issues with the calling public/programme host.

During the period under review one press conference was called in response to the numerous telephone calls to the Authority and discussion in the media with respect to the pileup of tyres at the Deglos Sanitary Landfill. The Chairperson of the Board of Directors along with the General Manager furnished media practitioners with a progress report on the efforts of the organization to deal with the situation which has plagued the organization and by extension the country for years.

Unstructured Supplementary Services Data (USSD Messaging)

During the period under review, USSD Messaging was introduced to the public as part of the education and awareness programme. The initiative undertaken in collaboration with DIGICEL, allows DIGICEL customers to view messages thrice monthly through the USSD menu of their cellular telephones whenever the balance is checked. The facility is however available to only prepaid DIGICEL subscribers. Out of the approximate one hundred and twenty-six thousand (126,000) DIGICEL subscribers, sixty-seven percent (67%) subscribe to a DIGICEL prepaid package which amounts to approximately 84,420 subscribers. Some messages sent through USSD included the following:

1. "SLSWMA offers monthly bulky waste pickup service for useless furniture & appliances. Call 453-2208 for details."
2. "Bag and place garbage out by 7:00 a.m. only on the collection days. Have a clean Christmas. Call 453-2208 for info."
3. "Stop illegal dumping in areas where garbage should not be placed. Keep St Lucia clean. Call 453-2208 for info"
4. "Litter is harmful to health and the environment. Love our island. Do not litter. Call 453-2208 for details"
5. "Do not burn garbage as it is bad for our health and the environment. Call SLSWMA at 453-2208 for more info"

Website and Facebook Page

The Authority during fiscal year 2014-2015 continued the maintenance and update of its website and facebook page. Periodic updates highlighted the work of the Authority.

Print Media

Flyers/brochures/letters

The distribution of Flyers/brochures and letters undertaken in conjunction with house-to-house visits remained the dominant medium in addressing specific solid waste management issues in target communities. Fourteen (14) communities were targeted during the financial year (Table 5). Flyers and brochures were also distributed during expositions/exhibitions. Distribution was also limited to students seeking information for school assignments/project.

Newsletter

The quarterly newsletter 'SLSWMA News' was produced and distributed electronically. Much of the content of the newsletter highlighted the work of the Authority.

Newspapers

Through the hurricane supplements published by The Voice and Star Newspapers the public was informed of the waste management practices required during the hurricane season as well as the best management practices for green waste.

Public Complaints

In an effort to meet the needs of the public and continually improve the service received by the public, the Authority continued to facilitate its complaints programme aimed at addressing issues related to solid waste management received from the public. A total of two hundred and fifty-five complaints were processed during fiscal year 2014-2015 (Table 6). The investigation and closure of complaints were addressed by the Operations Departments.

APPENDIX

Table 1: Community Outreach/Presentations

Group/Sector Name	No. of Presentations/meetings	No. of Participants
Media Practitioners/	1	20
Composting workshop	1	55
Staff National Conservation Authority	4	100+
Retired Women's Discussion Group, Rodney Bay	1	15
Anse la Raye Community	1	25
Community Health Care Staff	9	140+
Management Committee, Marchand Playing Field	1	6
Monchy Development Committee/community group leaders	1	25
TOTAL	19	386+

Table 2: School/Youth Outreach Presentations

School/Youth Group Name	No. of Presentations	No. of Participants
Canaries Primary School	1	101
Dennerly Primary School	1	276
Richfond Combined School	1	25
Blanchard Combined School	1	23
Vieux-Fort Comprehensive Secondary School Campus B	1	805
Desruisseaux Library Summer Programme	1	20
Vieux-Fort Library Summer Programme	1	26
Solid Rock Pentecostal Church Daily Vocation Bible School	1	68

Grande Riviere Junior Club Summer Programme	1	40
Anglican Infant School	1	262
Anglican Primary School	1	325
Methodist Primary School	1	357
Morne du Don Combined School	1	285
Vide Boutielle Combined School	1	464
Eucharist Lewis Seventh Day Adventist Primary School	1	100
Carmen Rene Memorial Primary School	4	120
Dernierie Riviere Combined School	1	182
Clendon Mason Memorial Secondary School	1	573
TOTAL	21	4052

Table 3: Community Clean-up Activities

School/Community Group	Area Cleaned	Solid Waste Collection
Glad Tidings Pentecostal Church	Beausejour, Gros-Islet	SLSWMA Solid Waste Management Contractor
Fond Assau CDRT and Community Group	Fond Assau and Environs	SLSWMA Solid Waste Management Contractor
Saint Lucia Duke of Edinburgh Awards Scheme	La Fargue, Choiseul	SLSWMA Solid Waste Management Contractor
Castries South UWP Branch	Cul de Sac Junction to Barre de Lisle	Organizers Effort
Marchand Road Community	Marchand Road	SLSWMA Solid Waste Management Contractor
Des Barras Sea turtle Group and partners	Grand Anse Beach	Organizers Effort

Rose Hill Community Committee and Community Group	Rose Hill Community	SLSWMA Solid Waste Management Contractor/ Castries Constituencies Council
Balata Development Committee and Community Group	Balata Community	
Volunteer Programme, Office of the Prime Minister	Vieux-Fort	Organizers Effort
Emmanuel SDA Primary School in conjunction with the Sustainable Development Division and its partners e.g. Fisheries Department	Praslin Beach	
La Pansee/Georgeville Community Group	Georgeville Community	SLSWMA Solid Waste Management Contractors
Dennerly North Community, Department of Environmental Health, SLSWMA, Dennerly North Youth and Sports Council, Dennerly North Constituency Council	Dennerly North	Community Volunteers
Youth Emergency Action Committee	Footpath connecting Bagatelle to Bishop's Gap, Marchand	SLSWMA Solid Waste Management Contractor
Caribbean Environmental Network	Bois Shaddon Beach	Organizers Effort
Caribbean Environment Network	Banannes Bay	SLSWMA Solid Waste Management Contractor
Caribbean SEA	Soufriere	Organizers Effort
Caribbean SEA	Marigot	Organizers Effort
Caribbean SEA	Canaries	Organizers Effort
Camp Poyotte, Caffierre, Community, SLSWMA	Camp Poyotte, Caffierre, Choiseul	SLSWMA Solid Waste Management Contractor
Saint Lucia Hotel and Tourism Association	Rodney Bay Village	Organizers Effort
Gros-Islet Town Council	Trou Tigre, Gros-Islet	SLSWMA Collection Contractor
E6 Committee and Residents of Lastic Hill	Lastic Hill	SLSWMA
La Croix Maingot Combined School	Slope/hillside of school entrance	SLSWMA Collection Contractor
Boguis Primary School	Boguis Community	SLSWMA Collection Contractor

Castries Southeast Constituency Council	Foot of Barre D'Isle to Country Village and Cul de Sac	Community Effort
Gros-Islet Secondary School	Gros-Islet Secondary School to Pigeon Island National Park	SLSWMA Collection Contractor
Pavee United Sports Club	Pavee Community	SLSWMA
Beausejour Development Committee	Beausejour Phase 2	SLSWMA Collection Contractor
Royal Saint Lucia Police Force	Police headquarters compound	Community Effort
Balata SDA Church	Balata – Cabishe as well as the surroundings of homes of elderly residents	SLSWMA Collection Contractor
Cul de Sac Mothers' and Fathers' Group, Chopper's Football Club	Millennium Highway/Cul de Sac Junction to LUCELEC and into Souci Community	SLSWMA Collection Contractor
Saint John's, Saint Lucia	Gardens	Organizers Effort
Dennerly Primary School	Dennerly mangrove	SLSWMA Collection Contractor
Camille Henry Memorial School – Grade 2	School Compound	SLSWMA Collection Contractor
Monchy Development Committee, Monchy Community	Monchy	SLSWMA Collection Contractor
Trinity Lutheran Church	Bisee	SLSWMA Collection Contractor
Odlum City Community	Odlum City	SLSWMA Collection Contractor

Table 4: Tours Deglos Sanitary Landfill/ Vieux-Fort Solid Waste Management Facility

Group Name		No. of Participants
Bouton Combined School	1	26
Corinth Secondary School	1	11
Sir Arthur Lewis Community College – Nursing Students	1	9
Balata Combined School	1	29
Banse La Grace Combined School	1	16

Staff of the National Conservation Authority	4	84
Laborie Summer Arts Workshop	1	55
Vieux-Fort Primary School Environment Club	1	13
Minister of Sustainable Development, Energy, Science and technology and the Board of Directors of the Saint Lucia Solid Waste Management Authority	1	8
Leon Hess Comprehensive Secondary School	1	37
Vieux-Fort Comprehensive School – A Level Division	1	14
Belle Vue Single Mothers' Group	1	12
Carmen Rene Memorial School	1	29
Gros-Islet Infant School	1	26
Castries Comprehensive Secondary School	1	14
Odsan Combined School	1	34
Corinth Secondary School	1	15
Sir Arthur Lewis Community College – A Level Division	1	46
Bocage Secondary School	1	11
Emmanuel SDA Combined School	1	12
	23	501

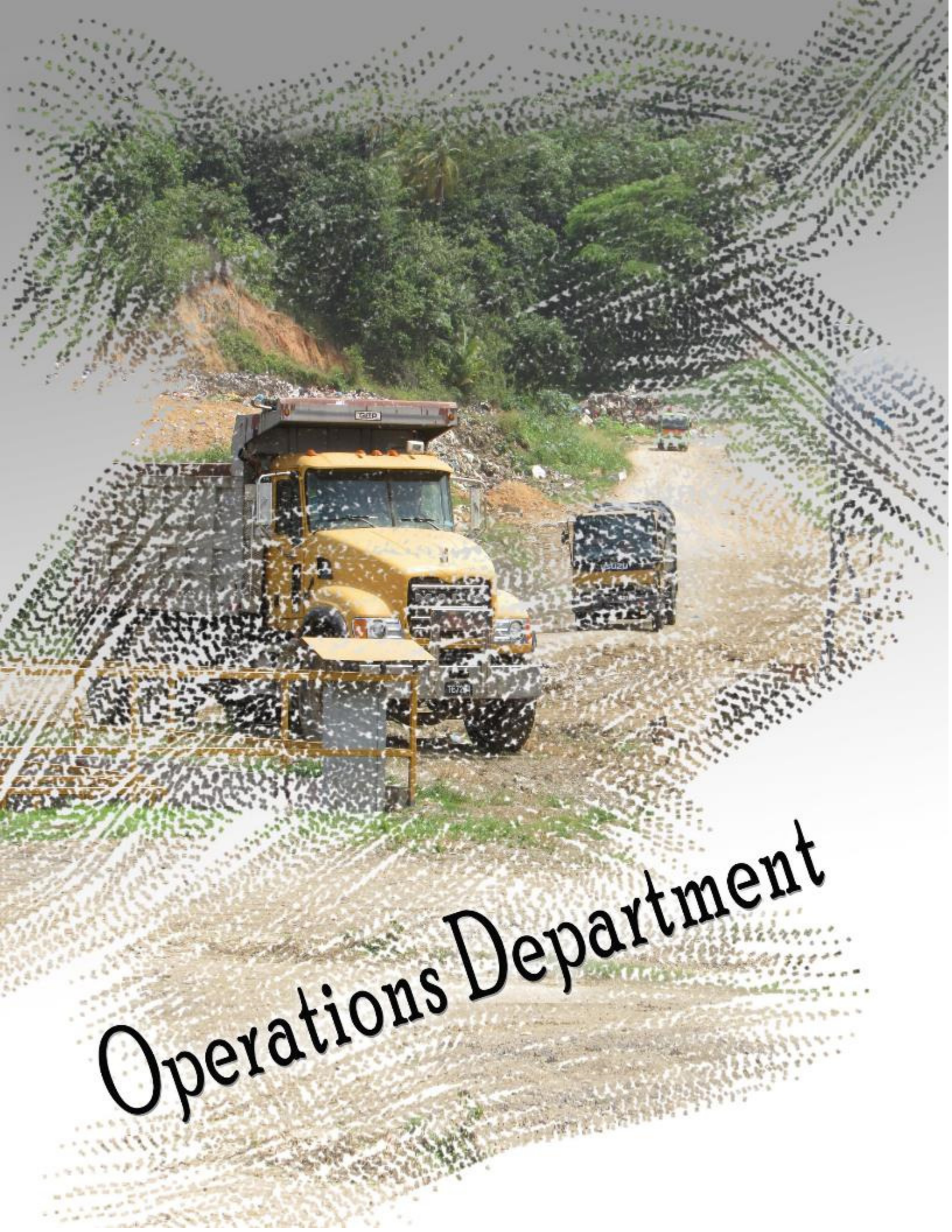
Table 5: Letter/Flyer Drop-offs

Issue	Community Name
Indiscriminate disposal of green waste/Collection Compliance	Poinsettia Drive, Entrepot
Indiscriminate disposal of solid waste/Collection Compliance	Monier
Vandalism of Communal Bin	Xenon, Soufriere
Indiscriminate Disposal of waste/Collection Compliance	Trou Tigre, Gros-Islet
Bin Removal	Postlewaite, Grand Riviere

Reassignment of collection point	Talvan
Indiscriminate disposal of solid waste/Collection Compliance	Sunny Acres
Change in collection service – weekly service due to limited access to the community	Parc Estate/Giabois, Saltibus
Indiscriminate disposal of solid waste/Collection Compliance	New Development Soufriere
Collection Compliance	Maynard Hill
Collection Compliance	Leslie Land
Change in collection service – communal collection service to curbside collection service	Cedar Heights, Vieux-Fort
Indiscriminate Disposal/ Collection compliance	Canaries

Table 6: Complaints

QUARTER	NO. OF COMPLAINTS (2014-15)
April – June	74
July – September	73
October – December	51
January – March	57
TOTAL	255



Operations Department

OVERVIEW

The fiscal period April 2015 to March 2015, saw the Authority continuing efforts at maintaining and improving where necessary municipal solid waste collection systems and ensuring that the two solid waste management facilities are operated to internationally recognized standards resulting in little or no impacts on human health and the environment. The Authority is saddled with the responsibility for the collection of municipal solid waste generated from residential properties, public schools and institutions and government offices. With reference to waste disposal, the Authority operates and manages the only two waste management facilities on the island, namely the Deglos Sanitary Landfill in the north of the island and the Vieux Fort Solid Waste Management Facility in the south of the island.

SOLID WASTE DISPOSAL

The waste management facilities operated by the Authority accept the following waste categories:

- Residential & Institutional waste – this is waste generated from residential properties and government institutions and facilities e.g. schools, hospitals, health centres, prisons, offices, etc.
- Commercial waste – waste generated from commercial activities e.g. hotels, restaurants, supermarkets, shops, etc.
- Industrial waste – waste generated from industrial operations e.g. electricity production, factories, manufacturing processes, etc.
- Construction and Demolition waste – waste generated from construction activities and renovation of properties e.g. waste building materials, land clearing, etc.
- Certain hazardous wastes - hazardous waste which can be disposed of without posing a significant risk to human health and the environment e.g. asbestos, fiberglass, certain pharmaceuticals and biomedical waste etc.

- Scrap metal/derelict vehicles – scrap metal and derelict vehicles which are no longer useful to the generator or owner of the waste.
- Quarantine waste – waste generated on ships and aircraft visiting the island.

WASTE QUANTITIES

During the fiscal period April 2014 to March 2015, total waste disposed at the two waste management facilities amounted to approximately seventy one thousand eight hundred eighty-nine (71,889) tons compared to 74, 442 tons. This represented a decrease of two thousand five hundred fifty-three (2553) tons or 3.4 per cent over the last period. Of this amount, Deglos Sanitary Landfill disposed of fifty one thousand six hundred sixty-one tons (51,661) tons or seventy-two percent (72%) per cent of all waste while the Vieux Fort Solid Waste Management Facility disposed of twenty thousand two hundred twenty-seven (20,228) tons or twenty-eight percent (28%). The Deglos Sanitary Landfill recorded a decrease of one thousand eight hundred forty-four (1,844) tons or approximately four (4%) over the previous period while VFSWMF recorded a decrease of seven hundred nine (709) tons or approximately three (3) percent (See table 1).

Table 1

Waste Category	April 2014 to Mar 2015			April 2013 to Mar 2014		
	DSL* (tons)	VFSWMF* (tons)	Total (tons)	DSL (tons)	VFSWMF (tons)	Total (tons)
Aircraft	0	118	118		113	113
Asbestos	0	15	15	4	0	4
Biomedical	50	1	51	44	0	44
Beach Cleaning	253	154	407	261	140	401
Bulky	1464	1062	2527	1293	1529	2822
Coconuts	1960	105	2064	1620	103	1723
Commercial	7478	2368	9846	7777	2805	10582
C & D	3256	294	3550	3420	254	3673
Condemned Foods	222	46	268	339	40	1170

Derelict Vehicles	88	42	129	124	57	180
Farm	-	-	571	575	31	606
Fiberglass	10.1	1.9	8	0	0	0
Green	5811	1254	7065	5904	744	6648
Hotel	5478	920	6398	5201	880	6082
Pharmaceuticals	2	0	2	1	2	21.9
Residential/Institutional	20938	11992	32929	21382	12522	33903
Ship	1606	1	1607	1839	3	1843
Street Cleaning	1830	1249	3079	2223	1367	3589
Tires	587	167	754	628	216	844
Other	38	417	455	81	132	213
Total	51661	20228	71899	53505	20937	74442
Total Vehicle Trips	38500	15090	53590	37492	15294	52786

*** DSL- Deglos Sanitary Landfill VFSWMF – Vieux Fort Solid Waste Management Facility**

Although the number of vehicles disposing waste at the waste management facilities increased by eight hundred and four (804), the amount of waste received decreased. This was as a result of the increase in small private vehicles utilizing the site coupled with decreases in a number of major categories of waste, particularly residential/institutional waste, condemned foods and commercial waste. Increases in the hotel sector, green waste and coconuts category did not contribute significantly to the decline (see figure 2). Deglos Sanitary Landfill received 38,500 vehicles, an increase of 1,008 vehicles, while the Vieux Fort Landfill received 15,090 vehicles, a decrease of 204 vehicles over the previous period.

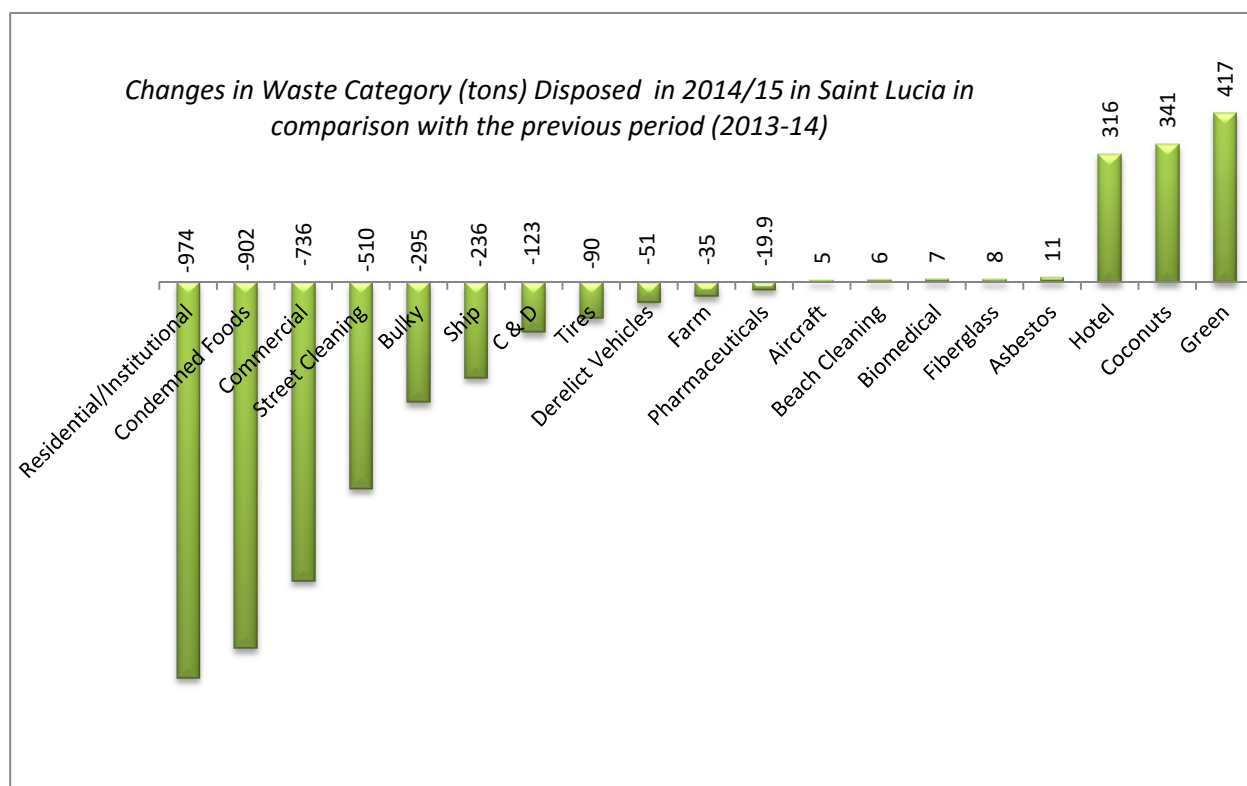


Figure 1

Of the waste disposed of, the residential/institutional category represented forty-six (46) percent of all waste followed by commercial waste representing fourteen (14) percent and green waste at ten (10) percent of the waste stream (see figure 2). There were no significant changes in the amount of waste disposed by category compared with the previous quarter.

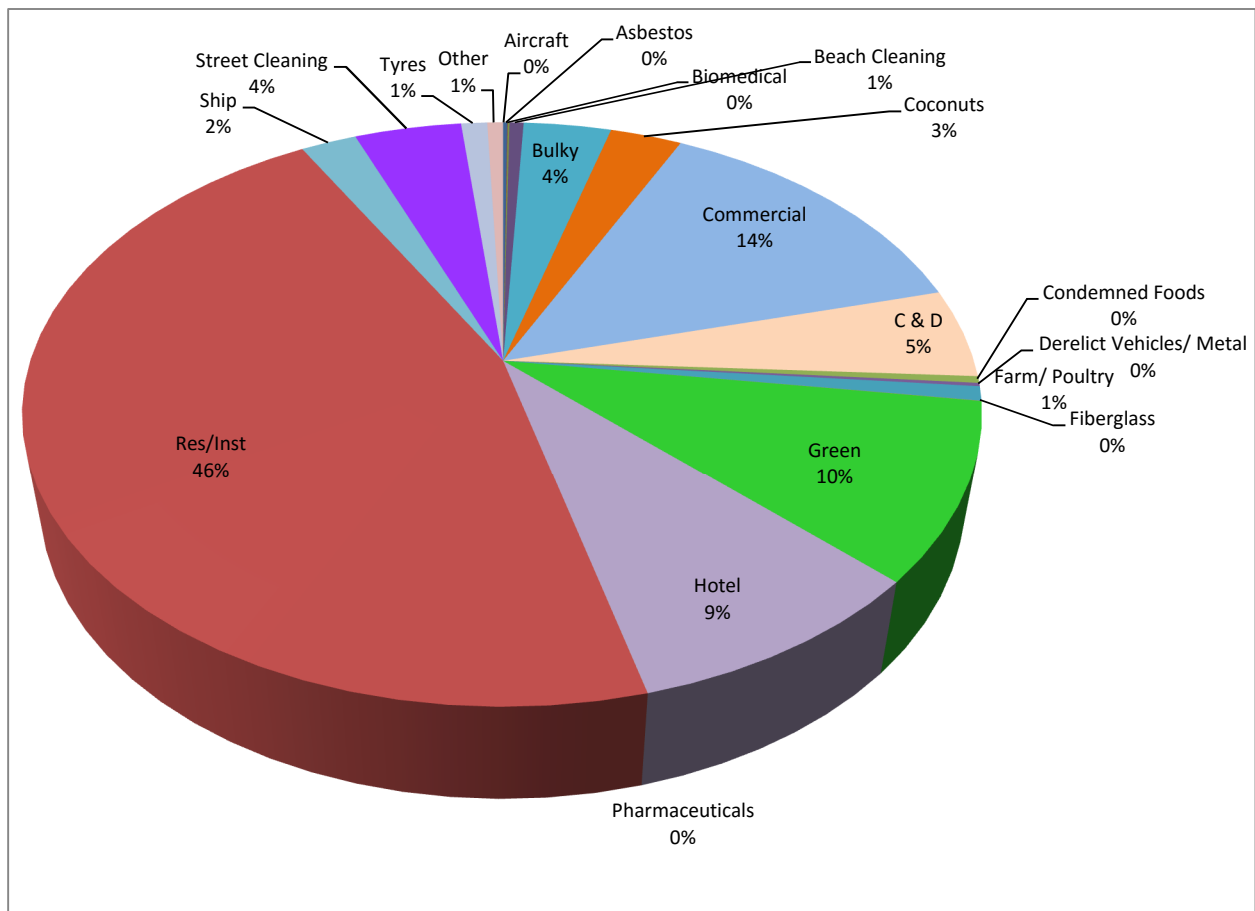
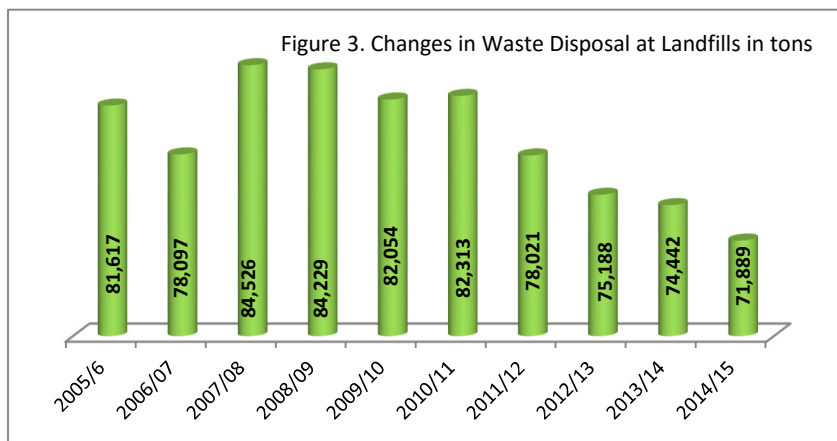


Figure 2: Waste Disposal by Category

Since 2010/11 waste quantities disposed in the island have decrease by approximately 15% overall, averaging approximately 3% yearly. At Deglos Sanitary Landfill waste



quantities have decreased by an average of approximately 5% yearly over the same period, while at the Vieux Fort Solid Waste Management Facility there have been an average of approximately 2% increase. Figure 3 shows changes in the disposal of waste at the landfills from 2005/6 to 2014/15.

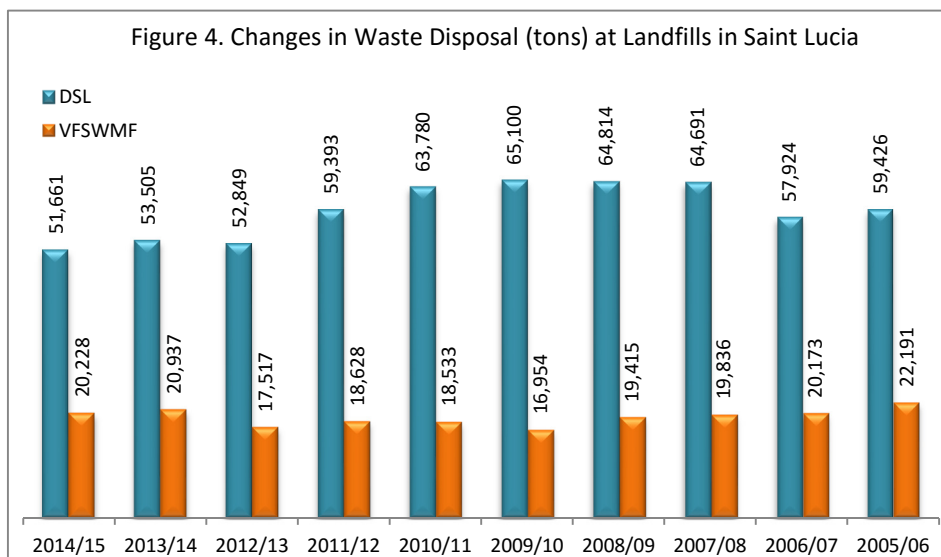


Figure 4 shows changes in waste disposal at the island's two landfills for the past ten (10) years. Of particular note is the relatively

stable levels of waste disposal over the period.

LANDFILL OPERATIONS

Heavy Equipment

The operations at the landfills continue to be affected due to the unreliability of the aging fleet of the heavy equipment owned and operated by the Authority. This is particularly so with the Deglos Sanitary Landfill which has been operating for the most part of the fiscal period with only one (1) excavator which cannot adequately deal with the volume of waste and also cannot provide the necessary level of compaction that is required. This problem has plagued the Authority for a number of years. Equipment owned since 2003 frequently breakdown resulting in downtime and as a result impact on the level of operations of the sites. One piece of equipment, a track loader, was permanently retired due to the high cost of repairs. This brings to two (2), the number of track loaders retired as a result of the high cost of repairs to aged equipment. The former was retired from the Vieux Fort landfill. Fortunately, some of the parts for the tracked loader can be used on the existing bulldozer operating at the Vieux Fort landfill. As a result of the retirement of these

equipment, and in the absence of replacement equipment, the Authority has resorted to the rental of equipment when its finances permit.

Material Recovery

The Authority went into an arrangement with a local recycler to recover scrap metal from a stockpile at the Vieux Fort Solid Waste Management Facility. The stockpile has accumulated for a number of years and was occupying valuable space at the facility. The operation began on November 3, 2014 and at the end of the fiscal period a total of approximately eighty eight (88) tons of metal was removed from the facility in addition to three (3) bales of plastics totalling approximately six hundred twenty (620) kilograms. At the Deglos Sanitary Landfill, a similar arrangement realized the removal of approximately five (5) tons of plastic waste, electronics waste and scrap wires.

In addition to the above arrangements, the Authority has arrangements with waste pickers at the Vieux Fort Solid Waste Management Facility to recover material such as ferrous metal, scrap wire, and wood. These waste pickers are regularly monitored and are required to operate in accordance with guidelines issued by the Authority. These include undergoing an annual medical examination, wearing protective clothing and adhering to stipulated safety measures.

ENVIRONMENTAL MONITORING

The Authority continued its environmental monitoring program aimed at ensuring that the operation of the waste disposal facilities do not adversely impact on health, safety and the environment. To this end, activities undertaken during the period included sampling and analysis of surface water and leachate at both waste management facilities.

At Vieux Fort Solid Waste Management Facility, surface water in a natural pond downstream of the site was analyzed. The results showed that most parameters including fecal coliform levels were within the recommended limit with the exception of total suspended solids and BOD₅ levels which were slightly above the maximum acceptable limits.

The analyses for the leachate treatment pond effluent at Deglos Sanitary Landfill and the river course above and below the leachate discharge points indicate that all parameters were well within the guidelines recommended by the Caribbean Public Health Agency (CARPHA) and the Royal Commission Standards with the exception of fecal coliform organisms which far exceeded the recommended guidelines (See table 2).

Parameter	Leachate Pond (DSL) mg/l	River – Upstream (DSL) mg/l	River – Downstream (DSL) mg/l	Surface Water (VFSWMF) mg/l	CARPHA* Recommended Limits mg/l
Fecal Coliform	1000 CFU/100ml	1000 CFU/100ml	1000 CFU/100ml	<1 CFU/100ml	<400/100ml
Total Suspended Solids	6	7	8	46	<30
BOD₅	2.5	1.7	5.6	24	<20
Ammonia	0.17	0.03	0.03	0.12	-
Arsenic	0.0126	0.0006	0.0006	0.0061	-
Cadmium	<0.00002	0.00009	0.00009	0.00002	0.5 mg/l
Chromium	<0.002	<0.002	<0.002	-	5.0 mg/l
Lead	0.00011	0.00064	0.00024	0.00063	5.0 mg/l
Fluoride	0.62	0.37	0.47	0.62	20 mg/l
Mercury	0.00003	<0.00002	<0.00002	<0.00002	0.05 mg/l
Nickel	<0.01	<0.01	<0.01	<0.01	5.0 mg/l
Silver	<0.005	<0.005	<0.005	<0.005	5.0 mg/l
Sulfate	53	52	52	53	1000 mg/l
Zinc	0.012	0.010	0.009	0.009	10 mg/l

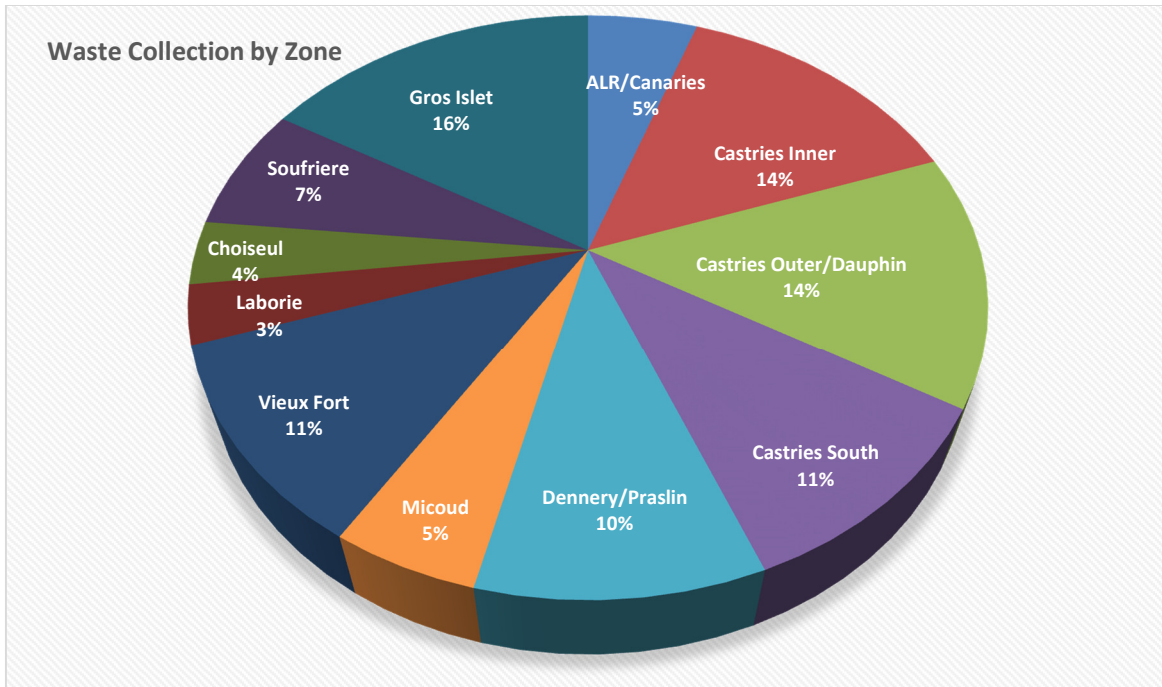
*Caribbean Public Health Agency

SOLID WASTE COLLECTION

The Authority is responsible for the collection of solid waste generated from private households, government offices, government institutions and agencies. The service consists of a collection for regular waste on a frequency established by the Authority and a collection for bulk items on a once monthly basis.

To this end, the island has been subdivided into eleven (11) waste collection zones, each serviced by a private waste collection contractor selected through a competitive tendering process. Collection contractors are required to procure their own equipment, facilities and personnel in order to undertake the service. In addition to the collection of refuse from the above-mentioned entities, the collection contractors are responsible for the removal of derelict vehicles in public places, remediation of indiscriminate dump sites, provision of a monthly bulky waste collection service and public awareness and information.

During the reporting period, waste transported by collection contractors amounted to approximately thirty two thousand three hundred five (32,305) tons, a decrease of nine hundred seventy four (974) tons over the previous period. The waste collection zones of Vieux Fort, Gros-Islet and the three Castries zones accounted for approximately seventy percent (70%) of the total amount of waste collected (See figure 5).



The Authority paid an average of one hundred ninety seven dollars fifty-nine cents (\$197.59) for each ton of waste collected and transported to the landfills during the period. The average cost for waste collection per ton varied by collection zone, ranging from one hundred twenty eight dollars eighty six cents (\$128.86) per ton for collection in the Castries South collection zone to three hundred twenty three dollars fifty seven cents (\$323.57) in the Anse La Raye/Canaries collection zone (see table 3). The data indicates that the average cost paid for each vehicle trip (load of waste) ranged from a high of nine hundred sixty-six dollars eighty-one cents (\$966.81) in Anse La Raye/Canaries collection zone to a low of three hundred eighty-two dollars seventy-two cents (\$382.72) in Castries South.

Table 3. Waste Collection Data

Waste Collection Zone	Total Vehicle Trips	Total Tons	Total Cost for Collection	Average Tons per Month	Average Vehicle Trips Per Month	Average Tons Per Trip	Average Cost Per Trip	Average Cost Per Ton
ALR/Canaries	578	1727	\$ 558,813.72	144	48	3.0	\$ 966.81	\$ 323.57
Castries Inner	1649	4585	\$ 1,066,505.40	382	137	2.8	\$ 646.76	\$ 232.61
Castries Outer/Dauphin	1770	4525	\$ 923,220.00	377	148	2.6	\$ 521.59	\$ 204.03
Castries South	1137	3377	\$ 435,155.40	281	95	3.0	\$ 382.72	\$ 128.86
Dennerly/Praslin	1014	3162	\$ 610,995.00	264	85	3.1	\$ 602.56	\$ 193.23
Micoud	461	1630	\$ 292,215.00	136	38	3.5	\$ 633.87	\$ 179.27
Vieux Fort	1406	3557	\$ 542,685.00	296	117	2.5	\$ 385.98	\$ 152.57
Laborie	408	1054	\$ 264,946.20	88	34	2.6	\$ 649.38	\$ 251.37
Choiseul	473	1138	\$ 244,625.76	95	39	2.4	\$ 517.18	\$ 214.96
Soufriere	643	2250	\$ 623,180.40	188	54	3.5	\$ 969.18	\$ 276.97
Gros Islet	1896	5300	\$ 816,704.76	442	158	2.8	\$ 430.75	\$ 154.10

Waste Generation Rate

Solid waste generation rates in the island have remained fairly constant over the past 5 years averaging approximately 1.1 kilograms per capita per day (see table 4). This is particularly welcomed as the less waste that is generated the longer the lives of the landfills are extended.

2010/11	2011/12	2012/13	2013/14	2014/15
1.2	1.1	1.1	1.1	1.2
kg/capita/day	kg/capita/day	kg/capita/day	kg/capita/day	kg/capita/day

Table 4

SUMMARY

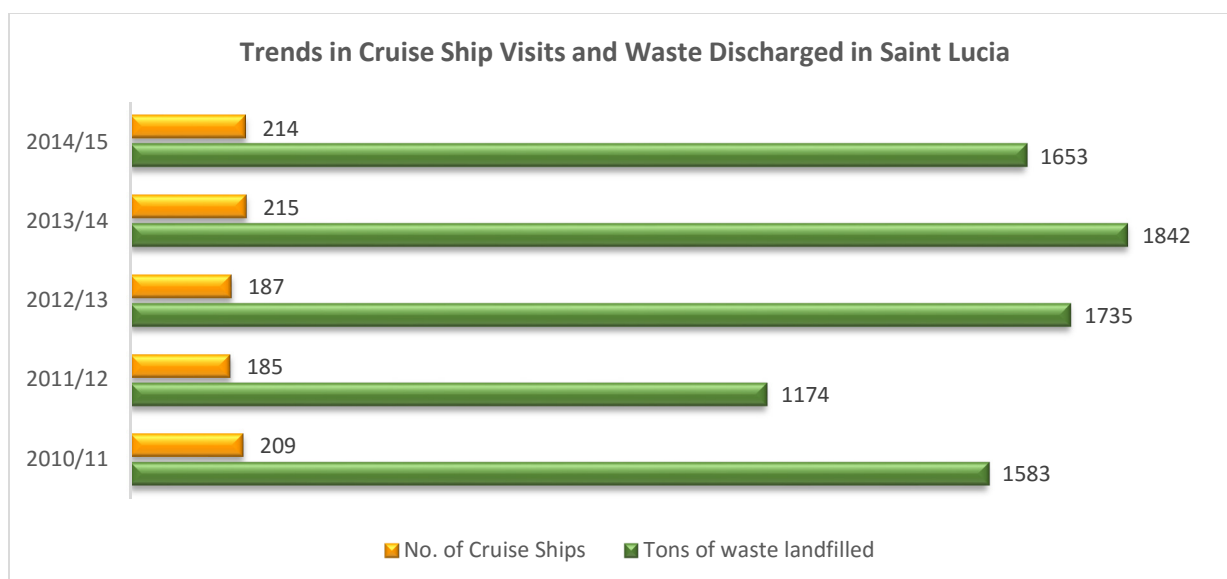
Waste disposed at the island's two landfills decreased by approximately three point four percent (3.4%) or two thousand five hundred fifty three (2,553) tons compared with the previous period continuing the downward trend begun in 2011/12. The decrease was seen in major waste categories such as residential/institutional waste, condemned foods, commercial waste and bulky waste. The quantities of residential/institutional waste generated has remained fairly stable over the past ten (10) years and this trend is not expected to change significantly in the short to medium term. Solid waste generation rates have averaged approximately 1.2 kilograms per capita per day, which is consistent with the average for the Caribbean region¹.

SHIP GENERATED WASTE

During this period, the Authority disposed of approximately one thousand six hundred fifty three (1,653) tons of waste generated on cruise ships. This represented a decrease of one hundred ninety tons compared with the previous period. The waste consisted mainly of dry garbage, incinerator ash, cardboard, ground glass and plastics and was discharged from two hundred fourteen (214) vessels, one vessel less than the previous period. Cruise ships are required to notify the Authority on the prescribed form, 48 hours in advance of their intention to discharge waste in the island and is granted approval by the Authority if the waste can be managed in an environmentally sound manner.

Solid waste discharged from cruise ships is transported by licensed waste haulers through arrangements with the cruise ship's agent. The waste is disposed at the landfills by deep burial. Figure 6 shows the trend in waste disposed by cruise ships for the past five years.

¹ WHAT A WASTE, A Global Review of Solid Waste Management, World Bank, March 2012.



BIOMEDICAL WASTE MANAGEMENT

The Authority continues to ensure that biomedical waste generated on the island is managed in a manner that pays due regard to health, safety and environment. To this end, the program instituted by the Authority seeks to ensure that waste generated at health care facilities is handled, stored, transported, treated and disposed of.

The Authority has instituted a program that seeks to ensure the proper management of biomedical waste from its generation to its final treatment and disposal. Under the program, health care personnel is provided training in the classification, identification, handling, segregation, storage and transportation of biomedical waste. In addition, audits are undertaken at all public health care establishment to ensure proper health care management practices and procedures are adhered to.

Through a public-private partnership, biomedical waste from generators is collected, transported, treated and disposed in a manner that pays due regard to health, safety and the environment.

The autoclave treatment facility, located at Deglos Sanitary Landfill was unavailable during the period due to issues with the electrical system at the landfill which also affected

other systems at the site. As a consequence, all biomedical waste collected underwent deep burial at Deglos Sanitary Landfill.

Training of health care personnel was not undertaken during the period due to financial constraints on both the part of the Authority and the health care establishments. Audits were undertaken at the majority of public health care establishments during the period.

During the period, approximately forty-nine thousand six hundred twenty-eight (49,628) kilograms of biomedical waste was collected at approximately sixty-two (62) locations island-wide, an increase of approximately thirteen (13) percent over the last period. Of this total, forty three thousand eight hundred sixty four (43,864) kilograms or eighty eight (88) percent originated from public health care facilities and twelve (12) percent or five thousand seven hundred sixty four (5,764) kilogram from private health care facilities. The Government-owned Victoria Hospital generated thirty thousand six hundred twenty-nine (30,629) kilograms or sixty two (62) percent of all biomedical waste treated. This represented an increase of two thousand one hundred thirteen (2,113) kilograms over the previous period. St. Judes Hospital generated approximately twenty-two (22) percent of the waste or ten thousand seven hundred sixty-eight (10,768) kilograms, while the largest private generated, Tapion Hospital, generated approximately nine (9) percent of the waste collected or four thousand seven hundred two (4,702) kilograms.

DERELICT VEHICLES MANAGEMENT

The Authority's program for the identification and removal of derelict vehicles in public places continued to be impacted by the unavailability of financial resources to remove most derelict vehicles from public places. Although some persons comply with requests to remove vehicles owned by them, owners of the majority of vehicles left in public places cannot be found. As a result, because of the inability to pay for the removal of these vehicles, they are not removed. During the reporting period, a total of sixty nine (69) derelict vehicles were removed along public roadways throughout the island.

USED OIL MANAGEMENT

Efforts continued at ensuring that used oil is managed in an environmentally sound manner. The Authority continued the deployment of waste oil storage containers at strategically located properties throughout the island in order to prevent the disposal of oil in the environment. There continues to be a demand for these storage containers due in part to the increase in the level of awareness of the effects of used oil on the environment and the monitoring regime of the Authority. There is need to procure additional waste oil containers to meet the increased demand, implement a public information and awareness program and introduce legislation in order to ensure improved management of used oil.

AUDITS

During the period a number of establishments were audited to assess whether or not good waste management practices were followed. These audits were undertaken by four (4) Zonal Supervisors within their assigned geographical zones. The audits revealed a satisfactory level as it pertains to waste management practices at all premises audited. Table 5 is a summary of the audits undertaken. Most schools were audited in all zones except North 2 where no audits were undertaken. Most health centers were audited in North 1 and South 1 while no audits were undertaken in North 2 and South 2.

Zonal Supervisor	Schools		Health Centres		Hotels		Insurance Council Approved Garages	
	No. In Zone	No. Audited	No. In Zone	No. Audited	No. In Zone	No. Audited	No. In Zone	No. Audited
North 1	29	29	7	5	15	0	15	15
North 2	25	0	11	0	4	0	12	12
South 1	27	27	11	10	1	1	8	8
South 2	21	19	8	0	5	5	1	1
Total	102	75	37	15	25	6	36	36

Table 5

In addition to the above-mentioned audits, the Authority undertook audits of the premises and vehicles of waste haulers to determine suitability for obtaining a waste hauler license. As a consequence of this, twenty (20) licenses were issued to waste haulers (**See Appendices 1 to 4**).

Waste Hauler

During the period, a total of twenty (20) waste haulage licenses were issued compared to eighteen (18) from the previous period. Persons wishing to transport waste to the landfills for hire are required under the waste Management Act # 8 of 2004, to obtain a license from the Authority. Prerequisites for obtaining the license include a valid certificate of roadworthiness, protective equipment on the vehicle and satisfactory level of sanitation of the premises where the vehicle will be parked overnight.

TRAINING

The Operations Department benefitted from a number of training opportunities provided by Japan and the Republic of China on Taiwan. From June 11 – 24, 2014 the Deputy General Manager attended a *Workshop on Waste Management & Resource Recycling in Taiwan* sponsored by the Ministry of Foreign Affairs, Republic of China (Taiwan) and the International Cooperation and Development Fund (Taiwan ICDF). The workshop was attended by twenty-five participants from twenty (20) countries in Africa, Europe, Asia, and Latin America & the Caribbean and was designed to expose senior and mid-level managers to waste management and resource recovery as it pertains to Taiwan. The workshop exposed the participants to the advancements made by Taiwan in the areas of waste management and the involvement of the government in promoting a truly recyclable society.

Japan through its JICA/JOCV office in Saint Lucia provided an opportunity for a Zonal supervisor to attend a training program in solid waste management in Japan. The training programme entitled “Sustainable Solid Waste Management in CARICOM countries”, was

held in Okinawa from October 15, 2014 to November 29, 2014. The programme sought to develop an understanding of techniques for sustainable solid waste management that could be utilized for planning and implementing appropriate solid waste management initiatives. To date approximately ten employees past and present have benefitted from some form of training experience in Japan.

From August 20 to September 13, 2014 a Zonal Supervisor attended a composting workshop in Japan sponsored by the Japan International Cooperation Agency (JICA). The Workshop was attended by eight participants from six (6) countries in South America & the Caribbean and was designed to expose participants to the management of composting as it pertains to Japan. The workshop exposed the participants to the advancements made by Japan in the areas of waste management and the making of compost using available resources as a way to reduce the large volumes of organic waste being sent to the landfills.

CHALLENGES

The main challenge faced by the Operations Section is the frequent breakdown of heavy equipment due to their age. The Authority continues to be plagued by this issue due to its inability to secure financing for replacement equipment or equipment rental. The result of this is the unsatisfactory management of the landfills.

Another challenge faced by the Authority is the complaints from the public regarding the accumulation of waste tires at the Deglos Sanitary Landfill. It was anticipated that the new tire shredder procured in 2012 would become operational during the period and so would begin to address the issue. This did not materialize due to the lack of financial resources.

APPENDIX 1: List of Schools

North 1	North 2	South 1	South 2
Seventh Day Adventist Academy	Anglican Infant*	Anse Ger Secondary	Piaye Combined
Balata Combined	Anglican primary*	Au Leon Combined	Piaye Secondary
Babonneau Secondary	Anse La Raye Primary*	Augier Combined	Fond St. Jacques primary
Bocage Primary	Anse La Raye Infant*	Belle-Vue Combined	Les Etangs Combined
Bocage Secondary	Ave Maria Infant*	Blanchard Combined	Delcer Combined
Boguis Primary	Ave Maria Primary	Clendon Mason Secondary	Soufriere Comprehensive
Bonne Terre Preparatory	Bexon Primary	Dennerly Infant	Reunion Primary
Castries Comprehensive Secondary	Bexon R C Infant*	Dennerly Primary	Banse La Grace
Corinth Secondary	Camille Henry Memorial*	Derniere Riviere Primary	Laborie Girls
Dame Pearllette Louisy	George Charles Secondary*	Desruisseaux Combined	Laborie Boys
Desbarra primary	Marchand Combined*	Grace Combined	Canaries Infant
Babonneau Primary	Marigot Secondary*	Grande Riviere Secondary	Canaries Primary
Entrepot Secondary	Methodist Primary*	La Ressource Combined	Bouton Combined
Fond Assau Primary	Millet Infant*	Micoud Primary	Choiseul Secondary
Forestierre Primary	Millet Primary*	Micoud Secondary	Roblot Combined
Grande Riviere Combined	Odsan Combined*	Mon Repos Combined	Mongouge Combined
Gros Islet Infant	SDA Primary*	Patience	River Doree Anglican Combined
Gros Islet Primary	Roseau Combined*	Pierrot Combined	Dugard Combined
Gros Islet Secondary	St Aloysius R C Boys Infant*	Plain View Combined	La Fargue Secondary*
Growell Care	St Aloysius R C Boys Primary*	Richfond Combined	Soufriere Combined*
La Guerre Primary	St. Mary's College*	Ti Rocher Combined	
Leon Hess Comprehensive	Vide Boutielle Secondary*	Vieux Fort Comprehensive Campus B	
Montessori Centre	Vide Boutielle Primary*	Vieux fort Comprehensive Secondary	
Monchy Combined	Tapion School*	Vigier Combined	
Mon Du Don Primary		Vieux Fort Infant	

Sir Ira Simmons Secondary		Vieux Fort Primary	
St. Joseph's Convent			
Ti Rocher Combined			
Upton Garden Girls			

*Audits not undertaken

APPENDIX 2: List of Health Centres

North 1	North 2	South 1	South 2
Gros Islet Polyclinic	Castries HC*	Grace HC	Choiseul HC*
Entrepot Wellness Center	Anse La Raye HC*	Desruisseaux HC	Etangs HC*
Ti Rocher HC	Bexon HC*	Richfond HC	Fond St Jacques HC*
Fond Assau HC	Ciceron HC*	Mon Repos HC	Laborie HC*
Babonneau HC	Jacmel HC*	Vieux Fort HC	La Fargue HC*
Grande Riviere HC*	La Clery HC*	St. Jude Hospital	Mongouge HC*
Monchy HC*	La Croix Maingot HC*	Dennery Hospital	Saltibus HC*
	Marchand HC*	Ti Rocher HC	Soufriere Hospital*
	Vanard HC*	Belle-Vue HC	
	Victoria Hospital*	Micoud HC	
	Tapion Hospital*	La Ressource HC*	
	National Mental Wellness Center*		

*Audits not undertaken

APPENDIX 3: Waste Haulage License Holders

Company	Name	No. of Vehicles
BioHelps	Hilary Morgan	2
C. K. Gaston & Sons Disposal Services	Canice Gaston	3
Greening The Caribbean	Wayne Neale	1
Mario Jules garbage Services	Mario Jules	1
Recycle IT	Josephat Small	1
R. G. Garbage Collection & Disposal Services	Gabriel Lamontagne	1
Rigid Construction Inc	Veran La Force	1
S.L.E.C.L. Ltd	Aymeric Monplesir	8
Sadoo & Sons Trucking	Innocent Sadoo	13
Shayn Garbage Disposal Inc.	Shayn Jean	1
Shuga waste management co. Ltd.	Owen Sadoo	10
Serieux Consolidated Inc.	Elie Serieux	2
Sanitary Upkeeps Ltd	Denis Mauricette	8
South Shore Auto Services Ltd	Osbert James	6
Weesbrook Disposal Services	Ernesta Weesbrook	3
-	Augustin Joseph	1
-	Claudia Jordan	1
-	Paul Charles	1
-	Simon Pelage	1

APPENDIX 4: Garages Audited for Insurance Council of St. Lucia

North 1	North 2	South 1	South 2
A-Best Auto Repairs	Economy Car services	Andre's Auto Repairs	The Auto Spa
Auto Zone Garage	Jn Marie & Sons Ltd	Aupicon Auto Repairs	
Beachcomber Ltd	Motorcycle Solutions	Aupicon Auto Services	
Dolcy's Auto Repairs	Monrose Auto Dynamics	Eastern Auto garage	
J. Q. Charles Motors	Nom's Auto Body Repair	Hoints points Garage	
K & M Garage	North south Enterprises	Napa Auto Care	
Mauricette's Auto Repairs	Northwest Ltd	Sadoo & Sons Garage	
Prio's Auto Repair	Peter & Company Ltd	Spencer Services Ltd	
Rejoice Motor Repairs	Rainbow Auto Care	South Shore Auto Services	
Rasco's Garage Ltd	Sean's Wrecker & Garage Services		
St. Lucia National Car Rentals	St. Lucia Bandag Ltd		
Shorey's Garage	Ultimate Automobile Inc.		
St. Lucia Modern Motors			
Transport & Handling Services			
Wayne's Motocycle Centre			



The image shows a black and white photograph of a financial calculator, a pen, and a pencil resting on a document with financial data tables. The calculator is a black Casio model with a green LCD screen and gold-colored trim. It is positioned diagonally in the lower-left quadrant. The pen is a black ballpoint pen, and the pencil is a silver-colored pencil, both lying horizontally across the upper right portion of the document. The document contains two tables of financial data, with the right table being more legible. The text 'Finance Department' is overlaid in a large, bold, black serif font at the bottom of the image.

Finance Department

Investment	Interest Rate
424 963	4.2%
446 211	1 005 241
468 522	1 520 000
491 949	2 324
516 744	3 1
542 112	
569 401	
Start at month	
Calc. 1.2	

Investment	Interest Rate
339 572	3.2%
361 029	1 296 731
387 517	1 659 317
417 58	2 403 808
	3 227 076
	4 050 935
	4 828 331

OVERVIEW

The Saint Lucia Solid Waste Management Authority has just completed another challenging period of operational activities. The year 2014/15 ended with a \$542,099 operating loss. That loss is down by \$367,400 from the \$909,499 operating loss in 2013/14. Total income increased by \$573,980 as it went from \$11,194,972 in 2013/14 to \$11,768,952 in 2014/15. Total Expenditure also increased, albeit at a lower rate as it went from \$12,104,471 in 2013/14 to \$12,311,051 in 2014/15; a \$206,580 increase.

The Authority achieved a relatively significant decrease in landfill operating cost. In the area of waste collection cost, this year's amount is virtually the same as the previous year's comparative. In spite of these, there was an increase in total expenditure and it is on account of a substantial upturn in environmental levy deductions which came out of the head tax on cruise passengers. These deductions have been taking place since the year 1999, but have not had such a significant negative impact on the Authority's Statement of Comprehensive Income.

Last year we reported on Cabinet's deliberations with a view of addressing the Authority's deteriorating financial standing. Two decisions were taken in that regard, one of which was implemented in the second half of the period under review. We anticipate that the most substantial decision, which is an increase in the annual subvention, will be implemented in the 2015/16 period. These decisions are expected to cause a complete turnaround in the Authority's overall viability as an institution and to return to a period of sustained operating surpluses.

STATEMENT OF FINANCIAL POSITION

The Authority's financial health as reflected in the Statement of Financial Position continues to be weak. Current Assets amount to \$2,429,082 and is dominated by \$2,123,837 between Cash and Receivables. On the other hand, Current Liabilities

totalled \$6,007,327, dominated by \$5,141,435 in Deferred Income. It should be noted that this Deferred Income amount has been recorded since April of 2007. It relates to funds which the Authority received from the Canadian Commercial Corporation (CCC) to settle some of the claims emanating from the Deglos Landfill construction dispute.

Until this amount is retired, because of its significance, it will continue to be a strain on the Authority's financial health. In other words, Current Liabilities will always be greater than Current Assets, thus rendering the Authority unable to cover its Current Liabilities with its Current Assets. An analysis of the current ratio is as follows:

	2014/15	2013/14
Current Assets	2,429,082	2,554,464
Current Liabilities	6,007,327	5,818,555
Current Ratio	.40:1	.44:1

SIGNIFICANT ISSUES – REVENUE

Subvention

As stated previously, government's financial support to the Authority increased substantially over last year's \$5,000,000. The \$5,777,545 which the Authority received for 2014/15 is the largest subvention amount received since 2004/05 when government remitted \$6,313,514. This year's amount is in direct response to the weakening financial performances which the Authority has been registering over the last ten years.

Environmental Levy

Total revenue from this source grew by 3.4% as it went from \$4,254,068 in 2013/14 to \$4,396,756 in 2014/15. However, pursuant to Cabinet Conclusion No. 685 of 1999 and

No. 350 of 2002, deductions totaling \$1,109,051 were made in 2014/15. This amount is up by \$697,199 or 169.3% over the prior year's \$411,852 total. As a consequence, the net amount remitted to the Authority for 2014/15 is down by \$554,511 when compared to the net amount remitted in 2013/14. An analysis of the amount received for 2014/15 is follows:

Stopover Passengers		\$1,433,030
Cruise Passengers	\$2,963,726	
Less Deductions	<u>\$(1,109,051)</u>	<u>\$1,854,675</u>
TOTAL (NET)		\$3,287,705

SIGNIFICANT ISSUES – Expenditure

Waste Collection Expenses

Household waste collection contracts are about to end. These contracts are expected to be renewed within the first half of 2015/16. For 2014/15, the cost to the Authority for performing that mandate is \$6,383,234. When combined with bio-medical waste collection cost, which saw a \$29,293 increase over the previous year's amount, total waste collection cost for the year amounts to \$6,597,033. This amount is \$33,775 above the \$6,563,258 comparative for 2013/14.

Landfill Operating Expenses

Over the last couple of years, the Authority experienced significant reductions in landfill operating cost. For 2012/13, expenses relating to these activities totaled \$3,024,797. The comparatives for 2013/14 and 2014/15 are \$2,210,970 and \$1,852,015, respectively. It is worth noting that Hired Equipment Cost which has been a major

expenditure issue for the Authority in years past, totaled \$387,653 for 2014/15. Of that amount, \$368,233 was incurred at the Vieux-Fort disposal site.

Administration and Related Expenses

For the 2013/14 period, we reported on a significant \$140,856 decrease in Administration and Related Expenses. This year 2014/15, we again report on a decrease, this time a marginal \$1,032 as expenses went from \$1,279,942 in 2013/14 to \$1,278,910 in 2014/15. *(For appropriate comparison purposes, the following expenditure sub-heads were excluded from total expenditure: Waste Collection Expenses, Landfill Operating Costs, Environmental Levy Deductions and Depreciation Expense).*

The Financial Statements for the period ended March 31, 2015 are appended.