J-PRISM SAMOA NEWSLETTER

Promotion of Regional Solid Waste Management in Samoa

Highlights from July 2015—December 2015

Issue # 5

SAMOA

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Primary Schools Waste Minimization and Segregation Competition on the theme: "Reusing waste using 3R"

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Five schools were targeted on this project for waste minimization and segregation in the urban areas, these are the same schools that were selected for the competition. Apia Primary School, Tanugamanono Primary School, Falefitu Primary School, St. Mary's Primary Schools and Seventh Day Adventist Primary School. Only 4 participated, Seventh Day Adventist wasn't able to join the competition. The Competition was judge under 5 criteria's: 1 Innovative creation of reusable items from recyclable materials, 2 variety of items createdfrom recyclable materials, 3 waste segregation properly implemented using distributed bins and cages, 4 composting of green and organic waste, 5 the level of participation. The competition was judged by Aliimuamua Setoa Apo, Principal Waste Management Officer, Seumanu Mikaele Teofilo, Senior Landfill officer and Leaupepe Arthur Fesili Managing Director of the Jaffas Sanitary Systems. The result was presented during the Environment Week of the Ministry of Natural Resources and Environment of Samoa and also their reused items that was produced for the competition was displayed to the public on the prize giving day during the environment week. St. Mary's Primary School won the first Prize, second Falefitu Primary School, third was Apia Primary School and fourth was Tanugamanono Primary School. The prizes were donated by the Shibushi City Counsel Project worth of $1000.00 cash, Vouchers worth of $1000.00 from Business System Company Limited, $500 worth of voucher from Samoa Stationery and Books, $200.00 cash cheque from Bluebird Lumber and Hardware and $2000.00 cash from the Ministry of Natural Resources and Environment. The cash collected was used to buy all materials and equipments used for compost and distributed among the 4 prizes.

St. Mary's Primary School



Apia Primary School





Falefitu Primary School

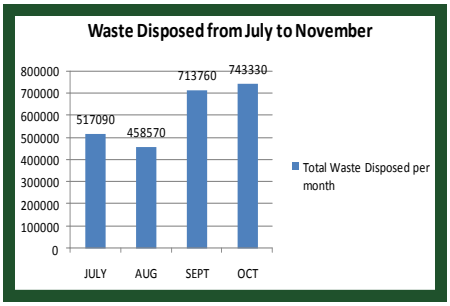


Tanugamanono Pri/Sch



Waste Disposal Data at Tafaigata landfill

Months	General	Bulk	Glass	Green	Market	Recyclable	Total	Cash
July	430,900kg	70kg	50,820kg	12,220kg	16,250kg	6,830kg	517,090kg	$6,922.10
Aug	438,370kg	2,130kg	80kg	1,490kg	16,230kg	270kg	458,570kg	$7,830.70
Sept	633,760kg	330kg	621,230kg	840kg	15,480kg	1,120kg	713,760kg	$6,694.30
Oct	632,110kg	33,760	33,750kg	11,120kg	19,780kg	12,810kg	743,330kg	$17,724.00



Data presented was retrieved from the weighbridge system at Tafaigata Landfill. Unfortunately the month of November and December were not recorded due to system break down because of lightening in mid November. Technicians from New Zealand were currently working to fix the problem. From July to October still the general waste contribute a lot on waste disposed at Tafaigata Landfill. The cash collected during the weighbridge operation increased because of the tipping fee but when the system broke down we operate using the flat rate and the cash collected was decreased. Schedule for early February 2016 the tipping will be

Leachate Data collected from Tafaigata and Vaiaata Landfills

Dates	Sample Point	DO	pH	Color	Odor	Transparency
JULY	Pond	12	8.98	Light light yellow	Nil	13cm
	Wetland	NO SAMPLE				
	Borehole#3	NO SAMPLE				
AUGUST	Pond	10	9.31	Light light yellow	Nil	14cm
	Wetland	NO SAMPLE				
	Borehole#3	NO SAMPLE				
SEPTEMBER	Pond	8	7.85	Light light green	Nil	18cm
	Wetland	NO SAMPLE				
	Borehole#3	NO SAMPLE				
OCTOBER	Pond	10	8.37	Light light yellow	Nil	12cm
	Wetland	NO SAMPLE				
	Borehole#3	NO SAMPLE				
NOVEMBER	Pond	10	8.59	Light light green	Nil	12cm
	Wetland	NO SAMPLE				
	Borehole#3	NO SAMPLE				

Monitoring was conducted monthly from the month of July to November 2015. Vaiaata was firstly monitored and tested on October. The boreholes was always dry due to dry season and from July to November its hardly rain. The samples for December for both Tafaigata and Vaiaata leachate ponds were given to SROS to test its BOD and pH. It was suppose to start in October but there was a difficult in payments finally the MNRE already paid 8 months on this financial year to SROS to test 2 sample from each remaining months of this financial year on BOD and pH. The results presented a good quality for all the parameters.

Date	S/Point	DO	pH	Color	Odor	T/P
9/9/15	L/Pond	3	7.30	Light green	Nil	3cm
20/10/15	L/Pond	4	7.76	Light Brown	Nil	10cm



Time and Motion Study's Data on Rubbish Collection Zone B1 and B2

Route	Collection Time	Collection Distance	# of platforms collected	Total weights of waste collected
Route 1	3hrs : 25mins : 31 secs	25 kilometers	314	3740kg
Route 2	7hrs : 36mins : 56secs	38 kilometers	354	4560kg
Total	11hrs : 02mins : 27secs	63 kilometers	668	8300kg

Zone B1 was collected by two trucks. Total population for B1 is 12,703 and the total number of households is 1854. Most of the roads were well paved some areas are mountainous but the trucks managed to reach all the households located on those hilly areas. Each truck contains 1 driver and 2 collectors. They performed the work well. The route 1 truck run well, the route 2 truck also run well except for its compact turner that stuck sometimes but they managed to finished their route within 8 hours. Both of the trucks contain 2 loads to cover their route. Both trucks are compactors and Route 1 truck is a 6 tons compactor as for route 2 truck is a 10 tons compactor.

Route	Collection Time	Collection Distance	# of platforms collected	Total weights of waste collected
Route 1	5 hrs : 44mins : 39secs	51 kilometers	232	3760 kg
Route 2	5hrs : 20mins : 12secs	47kilometers	429	4700 kg
Route 3	6hrs : 49mins : 23secs	59kilometers	713	5360 kg
Total	17hrs : 54mins : 14secs	157 kilometers	1465	13820 kg

Zone B2 is the largest zone from all the allocated zones in Upolu and Savaii Islands. This zone covered the most populated area. Its population is 23,083 and the total number of households is 3481. Most of the roads covered are well paved and tar seal. Three compact trucks collected this area. Route 1 truck is 10 tons compactor, route 2 truck is a 6 tons compactor and the route 3 truck is a 14 tons compactor. All the three trucks runs within 8 working hours. Each of Route 1 and route 2 trucks contain 1 driver and 2 collectors as for route 3's truck contain 1 driver and three collectors. The collection was carried out twice per week only for general waste .











