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Country: Bahamas                     Submission date: March 24th, 2017
Project No. _______________________ (For SGP Official Use. Do not write anything here)
Project Title: Hope Town Zero Waste Demonstration Project

APPLICANT

Name of Organization: The Hope Town Recycling Program
Year established: 2015 Number of members: 4 Committee Members & 20 Students
Number of projects implemented: 2 Projects
Recycling Program & Community Knowledge Mobilization through Handmade & Printed Signage
Mailing Address: P.O. Box 20155, Marsh Harbour, Abaco, Bahamas
Physical Address: General Delivery, Hope Town, Abaco, Bahamas
Telephone: 1.242.475.9616 / 1.242.475.9615 / 1.242.366.0052
Alternate Contact: 1-613-770-0865 E-Mail: HTRecyclingProgram@gmail.com
Principal Officer: Juliette Deal
Project Contact/Manager: Justin Higgs & Amanda Lightbourn-Higgs

PROJECT

GEF SGP Classification

<table>
<thead>
<tr>
<th>Thematic/Focal Area (Tick one)</th>
<th>Project Category (Tick one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservation of Biodiversity</td>
<td>x Demonstration Project</td>
</tr>
<tr>
<td>x Climate Change</td>
<td>Capacity Development Project</td>
</tr>
<tr>
<td>Land Degradation and Sustainable Forest Management</td>
<td>Applied Research/Policy Analysis</td>
</tr>
<tr>
<td>International Waters</td>
<td>Information/Networking/Policy Dialogue</td>
</tr>
<tr>
<td>Chemicals (POPs)</td>
<td></td>
</tr>
<tr>
<td>Capacity development</td>
<td></td>
</tr>
</tbody>
</table>

Proposed Start Date: 1st September, 2017 Expected Project Duration: 30th August, 2019

Project Site:

Workshops / Urban Garden / Compost Bin: St. James Community Center
Recycling Bin / Compost Bin / Scoreboard: Hope Town Primary School & Taylor Park
Bahamian Beer Bottle Recycling Depot: Sunshine Park, Hope Town
SECTION A

1.1 Project Summary

The Hope Town Zero Waste Demonstration Project aims to launch a Resource Diversion and Waste Mitigation integrated community based, student lead Zero Waste Project. Our goal is to create a Waste Diversion model for the Elbow Cay Community and other Out Islands and Cays in The Bahamas, in order to showcase a whole-systems approach to waste reduction as a community (year-round residents, second homeowners and visitors). Through a series of activities and local initiatives listed below, we wish to create a template that other islands in the Bahamas may implement at different levels and scales. The project plan, activities, metrics gathered, lessons learned and outcomes will be shared as Open Source Information through the multiple Knowledge Mobilization (KM) Platforms listed below.

1.2 Organizational Background and Capacity to implement the project

Background

The Hope Town Recycling Program started in September 2015 as a community-based organization which launched a local recycling program in Hope Town. The organization is made up of four committee members and students from the Hope Town Primary School.

Initially, the recycling bin was located at the base of the Hope Town Primary School. The Recycling Program is also used within the school for teaching purposes. To date, the program has been a success and the students won the National Science Fair for a project based on the Recycling Program. Since the launch, we have seen the volume and participation increase steadily.

Committee Members

Justin Higgs: Principal of the Hope Town Primary School
Amanda Lightbourn-Higgs: Teacher at the Hope Town Primary School
Juliette Deal: Resource Diversion and Waste Mitigation Specialist
Monica Cook: St. James Community Center Program and Fundraising Coordinator

Capacity to Implement the Project

The Hope Town Zero Waste Demonstration Project will build upon and expand beyond the recycling program to incorporate all 4 R’s (Refuse, Reduce, Reuse and Recycle) in a community based, integrated approach that includes students of all ages, year round residents, local businesses, second homeowners and visitors. The Hope Town Zero Waste Demonstration Project has the full support of the St. James Community Center, Hope Town Association, Hope Town Primary School, Elbow Cay Properties, Om Grown Greens, Abacays Carib Freight, Deans Shipping and Cans for Kids Bahamas.

Purpose and Core Activities

Table # 1

<table>
<thead>
<tr>
<th>Category / Purpose</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reduce Program</strong> through Community outreach activities on Composting and the use of Reusables in lieu of singles use disposables.</td>
<td>The Reduce Program aims to collect data for baseline information on plastic bag, disposable cutlery and condiment usage from grocery stores and establishments through a local survey.</td>
</tr>
<tr>
<td></td>
<td>Promoting the use of Reusables in lieu of disposables through student led community activities and events such as:</td>
</tr>
<tr>
<td></td>
<td>- Creating infographic posters for establishments on Reusables</td>
</tr>
<tr>
<td></td>
<td>- Providing reusable grocery bags for each store to sell and pay back as sold</td>
</tr>
<tr>
<td></td>
<td>- Create bags &amp; implement a Borrow-A-Bag Program</td>
</tr>
<tr>
<td></td>
<td>- Encourage the use of Reusables through our KM Platforms</td>
</tr>
<tr>
<td><strong>Organizational Approach and Implementation</strong></td>
<td></td>
</tr>
<tr>
<td>The Hope Town Zero Waste Demonstration Project will be achieved by clearly outlining each activity within the</td>
<td></td>
</tr>
<tr>
<td><strong>Refuse Program through Community Outreach Activities</strong></td>
<td></td>
</tr>
<tr>
<td>The <em>Refuse Program</em> aims to encourage behavioral changes through student led community activities and events focused on Refusing Disposables such as condiments, napkins, cutlery and thank you bags unless absolutely necessary.</td>
<td></td>
</tr>
<tr>
<td>The <em>Refuse Program</em> aims to encourage establishments to ask patrons if they need disposables before just giving them out. This will save the establishment money and bring awareness to the patron about whether or not they need these items.</td>
<td></td>
</tr>
<tr>
<td><strong>Recycle</strong></td>
<td></td>
</tr>
<tr>
<td>Recycling Aluminum Cans &amp; Glass Beer Bottles (Kalik, Sands &amp; Becks)</td>
<td></td>
</tr>
<tr>
<td>Build the 2nd Recycling Bin from Reused Materials</td>
<td></td>
</tr>
<tr>
<td>Build a Glass Bottle Recycling Depot for Bahamian Beer Bottle Collection</td>
<td></td>
</tr>
<tr>
<td>Implement 5 additional aluminum can recycling locations onsite at local establishments &amp; special events.</td>
<td></td>
</tr>
<tr>
<td><strong>Urban Garden grown from Compost made from Household Food Waste</strong></td>
<td></td>
</tr>
<tr>
<td>Build an Urban Garden Bed from reused materials</td>
<td></td>
</tr>
<tr>
<td>Plant heirloom seeds in peat moss seed pods to germinate (heirloom seeds used for seed saving for the following season)</td>
<td></td>
</tr>
<tr>
<td>Plant the seedlings in the Urban Garden</td>
<td></td>
</tr>
<tr>
<td>Maintain and harvest the Urban Garden</td>
<td></td>
</tr>
</tbody>
</table>
| Host workshops on:  
  ● Seed Saving  
  ● How to plant your own Gardens  
  ● How to compost at Home  
  ● How to preserve food to avoid food waste (Jarring, canning & freezing techniques)  |
| **Knowledge Mobilization (KM)** |  
| ● Website  
  ● Facebook Page  
  ● YouTube Video  
  ● VHF weekly Radio Announcements  
  ● Abaco Life, Article  
  ● The Abaconian  
  ● The Tribune & Guardian Articles (New Providence)  
  ● Hope Town Community Meeting  
| The creation of a Waste Diversion Score Board to weigh, record and write the volume of recycling, reused materials & food waste diverted per month on the Scoreboard, then record the data in a waste tracking reporting software.  |
| Special monthly announcements on the VHF Radio during the Cruisers Net, about the recycling bin locations, Program details and a reusable tip of the month.  |
project scope, which committee member is responsible for that activity, along with clear goals, objectives, timeline and budget. The organization will keep track of each activity through the Implementation Plan attached and a detailed Gant Chart for each activity, in order to ensure the committee members and students are meeting their responsibilities in a timely manner for completion. Each activity will follow SMART criteria (Specific, Measurable, Achievable, Relevant and Time-Bound).

**Length of Existence and Project Management Experience**

<table>
<thead>
<tr>
<th>Name</th>
<th>Professional Credentials</th>
<th>Experience</th>
<th>Role in the Organization</th>
<th>Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juliette Deal</td>
<td>Resource Diversion and Waste Mitigation Specialist</td>
<td>Juliette has worked in the field of Resource Diversion and Waste Mitigation, with a focus on Composting and Compostables, for 9 years.</td>
<td>Co-Founder and Program Director (Volunteer)</td>
<td>Program Coordination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Knowledge Mobilization Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Administration</td>
</tr>
<tr>
<td>Justin Higgs</td>
<td>Principle at the Hope Town Primary School</td>
<td>Justin has been the Principle of the Hope Town Primary School for 5 years and a teacher for 16 years.</td>
<td>Co-Founder and Director of Operations (Volunteer)</td>
<td>Recycling &amp; Compost Bin Management at the HT Primary School</td>
</tr>
<tr>
<td>Amanda Lightbourn-Higgs</td>
<td>Teacher at the Hope Town Primary School</td>
<td>Amanda has been a teacher for 16 years, 11 of them at the Hope Town Primary School.</td>
<td>Co-Founder and Director of Educational Programming (Volunteer)</td>
<td>Student Based Educational Programming</td>
</tr>
<tr>
<td>Monica Cook</td>
<td>St. James Community Center Program and Fundraising Coordinator</td>
<td>Monica has been on the Board of Directors of the St. James Community Center for 3 years, from conception to construction. The Community Center opened in 2017.</td>
<td>Community Outreach Coordinator (Volunteer)</td>
<td>St. James Community Center workshops, special events and Urban Garden Management</td>
</tr>
<tr>
<td>Thomas Bethel</td>
<td>Retired Pilot for Bahamasair</td>
<td>Glass Bottle Recycling in Hope Town for 7 years</td>
<td>Glass Bottle Recycling Coordinator</td>
<td>Glass Bottle Recycling Program Management</td>
</tr>
<tr>
<td>Katy Cash</td>
<td>Accountant (Paid)</td>
<td>Bookkeeper for Hope Town Community Association</td>
<td>Accounting</td>
<td>Monthly Bookkeeping</td>
</tr>
</tbody>
</table>

**Organizational Structure, Governance & Administration**

Please see Table #2 above for details.

**Membership and Affiliation to Associations or Umbrella Groups**

- The Hope Town Recycling Program is affiliated with the ‘Cans for Kids Bahamas’ Program on New Providence. This is where we ship our recycling to.

- The Hope Town Zero Waste Demonstration Project will be affiliated with the St. James Community Center as an expansion on the Hope Town Recycling Program.

**Nature of the Organization’s Existence**

The Hope Town Recycling Program is a volunteer, community-based organization which is a affiliated with the Cans for Kids Bahamas non-profit organization out of New Providence. The local registered sponsoring organization for the Hope Town Zero Waste Demonstration Project will be the Hope Town Community Association.

**Target population group (indicate relevant community groups, women, indigenous peoples, youth, etc.)**
The Hope Town Zero Waste Demonstration Project aims to include people of all ages (students, residents, second home owners and tourists). The project is inclusive of all demographics and nationalities present within our community, both local and seasonal (predominantly Bahamian, Haitian, North American and European). Our activities will include projects that incorporate people with disabilities, and there will be a strong focus on skill based learning for both male and female students equally for every activity. This is already the case for our Hope Town Recycling Program and now we will extend the same equal opportunity approach to the Hope Town Zero Waste Demonstration Project.

**Previous Experience Relevant to the Proposed Project**

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Related Experience</th>
<th>Specific Areas Addressed with Projects</th>
</tr>
</thead>
</table>
| Justin Higgs          | The Hope Town Primary School is a Green Flag Certified School. The curriculum incorporates projects and learning opportunities that touch on all aspects of environmental issues and sustainability within each grade. There is a school garden, which the students plant and maintain; it has been an integral part of the Recycling Program. The school is known for its skill based learning through hands on projects and field trips. | - Biodiversity  
- Climate Change  
- Land and Sea Based Pollution  
- Natural Resources |
| Amanda Lightbourn-Higgs | Same as above                                                                                                                                                                                                                     | Same as above                                                                    |
| Juliette Deal         | Juliette Deal has spent the last 9 years working in the field of Compostables in the Bahamas, US and the Caribbean, presenting to businesses and teaching communities about Resource Diversion and Waste Mitigation, both professionally and personally on her own time. As a regional manager, she has worked with Corporations, Universities, Hospitals and the Orlando International Airport on compostables and proper waste diversion strategies and implementations. She partnered with One Eleuthera and the Island School in 2012 to do an island wide educational series. In 2014, she published a 4 page article in the Ministry of Housing and Environment’s Eco Magazine, on the importance of compostables and composting. Juliette also worked with both political parties in the Bahamas and local NGO’s to create a new taxation classification for compostables. Juliette was the program coordinator for a recycling program on another Cay for 3 years. She is currently doing her master’s degree in Environmental Studies. | - Climate change due to the burning of dumps & landfills (GHG’s)  
- Climate change effects due to methane released from organic material decomposing in the landfill or dump instead of composting.  
- Climate change due to carbon emissions released into the atmosphere due to waste hauling (volume and weight)  
- Loss of biodiversity due to environmental toxic contamination of natural ecosystems due to leaching from landfills and dumpsites  
- Land and Sea based pollution due to illegal dumping, the migration of waste due to hurricanes and flooding, and ocean based pollution that has washed ashore. |

**1.3 Project Objectives and Expected Results**

**Problem Statement**

Municipal Solid Waste in The Bahamas is a mounting crisis due to (1) the logistics due to geography; (2) minimal formal Sanitary Landfill Infrastructure in the Out Islands; (3) continual daily importation of more materials and products; (4) the regular burning of dumps and the landfills; (5) and the need for a more comprehensive way to disseminate information on diversion mitigation solutions and initiatives in the Bahamas, such as recycling, composting and reusing.
The Hope Town Zero Waste Project aims to reduce the weight and volume of waste disposed of in the community every year starting at 10% by the end of the first year. By removing 10% of waste that would otherwise be disposed of, decomposed and burned in the landfill, these initiatives are helping to reduce the amount of GHG’s released into the atmosphere, chemical toxic contamination leaching into the ground, land based pollution and CO2 emissions from waste hauling vehicles and freight boats. The project also aims to encourage food security, through food production and the creation of compost from organic matter removed from the waste stream and composted.

**Goals**

1. To address food security as a community by educating students and community members on how to grow a home garden, how to start a home compost and how to prevent food waste.
2. To divert 10% of waste from the Marsh Harbour Landfill in the first year. The goal will be to see this percentage increase every year.
3. To change the behavioral waste diversion and consumption habits within the community and bring awareness about the impact this has on our environment.
4. To educate and empower our youth to become active environmental solution-based leaders within the community.
5. To create Open Source information sharing platforms to engage with, learn from and share with other communities throughout the Bahamas and the Caribbean about Waste Diversion and Mitigation practices.

**Objectives, Rationale and Outcomes**

1. **To build a community Urban Garden for skilled based learning & educational programming and identify the lowest income households on the island to provide fresh produce from each harvest to those in greatest need.**

   **Rationale:**
   The Urban Garden will be used to teach students and community members how to grow their own food at home. Vegetables and spices will be grown to provide fresh vegetables and spices for the students that grow them, and to sell at the local green market every Friday. The green market will be an opportunity to engage with the community and visitors on the Hope Town Zero Waste Project and the importance of growing locally as well composting.

   **Outcome:**
   - Will be the creation of a community Urban Garden that produces vegetables and spices at the Hope Town Community Center.
   - Students that partake in the Urban Garden will harvest and bring home fresh vegetables and spices for their household.
   - The leftover produce will be sold at the local Green Market on Saturdays.
   - Report volume of produce grown on the scoreboard and recorded in the waste management software.
   - Provide fresh produce to the lowest income households on the islands and encourage them to take part in our workshops to help them grow their own food at home as well.

2. **To launch a Compost Program for household vegetable and fruit scraps, paper, cardboard and garden trimmings on Elbow Cay.**

   **Rationale:**
   According to the 2014 EPA report on Municipal Solid Waste, 14.9% of food waste and 26.6% paper and cardboard end up in the landfill every year. These materials, which can be composted, release greenhouse gas emissions when they are disposed of in a landfill, by decomposing and releasing methane into the atmosphere. By locally composting these materials, we divert the weight from the local dump, which reduces the weight when shipping the garbage off island to Marsh Harbour on the barge (decreasing volume = reduction in diesel usage), and reduces greenhouse gas emission from decomposing in the landfill, while creating nutrient rich soil for the local Urban Garden.

   **Outcome:**
   - The ongoing production of nutrient rich compost soil for the community and for the Urban Garden.
   - The reduction of carbon monoxide released from the barge due to the weight diverted from the Hope Town dump, which in turn results in less diesel usage.
   - The reduction of methane released from the landfill due to decomposing organic materials.
   - Report volume organic material composted on the scoreboard and recorded in the waste management software.

3. **To expand the current recycling program by offering additional recycling depots for aluminum cans,**
plastic and glass bottles, and encouraging and engaging the community to participate.

Rationale:
By offering more recycling depots on the island and working with the community to participate on a much larger level than before, our aim is to divert a greater volume of recyclables from the dump and landfill every year.

Outcome:
- The reduction of Greenhouse Gas Emissions and air pollution from the landfill where plastics, aluminum and other disposables are burned.
- Reducing the need for new glass production through glass bottle recycling in New Providence.
- Report volume recyclable materials diverted from the landfill on the scoreboard and recorded in the waste management software.

(4) To collect, analyze, report and compare baseline data on the current consumption of disposables used by local establishments, with the data collected during the course of the project.

Rationale:
By collecting initial baseline data at the beginning of Phase 1 for single use disposables on the island, we aim to show the volume reduction for each waste stream in Phase 2 by collecting the same usage data from the grocery stores and establishments again, and comparing the difference in volume and the amount of waste diverted by reusing, refusing, composting, and recycling.

Outcome:
- The reduction of Greenhouse Gas Emissions from landfill where plastics and disposables are burned, thus releasing toxins into the air. Polystyrene, as an example, releases 57 chemical byproducts when burned, according to the National Bureau of Standards Center for Fire Research.
- The reduction of carbon monoxide released from the barge due to the weight diverted from the Hope Town dump, which in turn results in less diesel usage.
- Raise awareness about the quantitative volume of waste the community produces every year.

(5) To launch a community Reusable program for grocery stores and establishments to encourage Reusables in lieu of single use disposables.

Rationale:
The 2014 EPA report on Municipal Solid Waste shows 12.9% of plastics are discarded into the landfill every year. By launching a reusable campaign, we aim to encourage the community to start bringing their own bags or participating in the Borrow-A-Bag program at the grocery stores, as well as to bring their own cups to the coffee shop and local establishments.

By reducing the consumption of single use disposables, by using reusables, this in turn reduces the volume of demand, production of waste, and reduction of the weight of the waste shipped off of the island.

Outcome:
- The reduction of volume of single use plastic bags, single use drink cups and single use coffee cups in our dump and landfill.
- Creating awareness about our habitual usage of single use disposables when alternative reusable options are available.
- The reduction of Greenhouse Gas Emissions and air pollution from the landfill when plastics are burned.

(6) To launch a Refusal program for the hospitality industry for plastic bags, cutlery, napkins and condiments on Elbow Cay.

Rationale:
This program will encourage community members and visitors to decline the use of a plastic bag or unnecessary usage of condiments, napkins and disposable cutlery if they are going back to their home, work or villa, where they have these items already. The program will also encourage local establishments to ask patrons if they need a bag, condiments, napkins and disposable cutlery in lieu of just giving it to them. This will bring awareness to the patron and the option to refuse or decline the unnecessary use of disposables.

Outcome:
- The reduction of volume of single use plastic bags, condiments, napkins and disposable cutlery in our dump and landfill.
- Creating awareness about our habitual usage of single use disposables when they are not needed and will only be thrown away unused.
- The reduction of Greenhouse Gas Emissions from landfill where plastics and disposables are burned, thus releasing toxins into the air.
- The reduction of carbon monoxide released due to the weight reduction for the barge, which results is less diesel usage.

(7) To categorize, report and track all reused and donated materials used for activities.
Rationale:
By tracking the category and weight of each reused material and waste stream used for each activity, the aim will be to include this in the Waste Tracking Software to provide quantitative data on the amount of waste diverted from the landfill through reuse.

Outcome:
- The reduction of waste in the dump and landfill.
- Showing the community how discarded materials and waste can be turned into practical new uses.
- The reduction of carbon monoxide released due to the weight reduction for the barge, which results in less diesel usage.
- The reduction of Greenhouse Gas Emissions from landfill when materials and construction waste are burned in the landfill.
- Report the volume reused materials diverted from the landfill on the scoreboard and recorded in the waste management software.

(8) To offer an educational Workshop Series for Students and Community Members through skill based learning on gardening techniques, composting, food preservation and the 4R’s (Reduce, Refuse, Reuse & Recycle).
By creating an interactive educational workshop series, the aim is to engage students and community members in the project and offer skill based learning opportunities to continue the community based waste diversion initiatives beyond the scope of the project.

Outcome:
That students and community members will learn new skills and habitual changes that they can apply at home or at work as it pertains to waste reduction in our community, and set examples for others as they themselves in turn teach and discuss their new knowledge.

(9) To create Knowledge Mobilization Platforms to communicate what the Hope Town Zero Waste Demonstration Project is about, information on each activity, the progress of the project, and the outcomes and final quantitative results, in order to create a template that other Islands and Cays can use to encourage waste reduction initiatives within their own communities.
Rationale:
By creating multiple Knowledge Mobilization Platforms listed in Table #5, the aim is to disseminate information about the Hope Town Zero Waste Project to the community and visitors about the project, and encourage participation by creating awareness about the impact waste has on our environment and the habitual changes that can be made to reduce this impact as a community.

Outcome:
- The creation of multiple platforms to share information on our project progress.
- The creation of a final report that can used as a template by other Islands and Cays, with detailed information on each activity and the final outcomes.
- The creation of a public community waste diversion scoreboard to track the volume of waste diverted.

1.4 Description of Project Activities

Table # 4
Ongoing = Beyond the Hope Town Zero Waste Demonstration Project
Who = Committee Members & Community Participants committed and involved in the project
S.J.C.C. = St. James Community Center  H.T.P.S. = Hope Town Primary School

<table>
<thead>
<tr>
<th>Activity</th>
<th>Description</th>
<th>Who</th>
<th>Where</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban Garden</td>
<td>Building an Urban Garden bed from reclaimed shipping pallets (pls see image attached)</td>
<td>Pete Colling, Juliette Deal, builders</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td></td>
<td>Creating rainwater drip system for the Urban Garden for self-irrigation &amp; sustainable water source.</td>
<td>TBD</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td></td>
<td>Planting the Urban Garden. First planting seeds in the seed pods for germination and then planting the seedlings in the garden.</td>
<td>TBD</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td>Maintaining Urban Garden</td>
<td>Urban Garden Helper</td>
<td>S.J.C.C.</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>Weighing the amount of produce grown each week, writing on the Scoreboard the new amount &amp; inputting the data into the Waste Tracking Software.</td>
<td>TBD</td>
<td>S.J.C.C. &amp; H.T.P.S.</td>
<td></td>
</tr>
<tr>
<td><strong>Compost Program</strong></td>
<td>Student &amp; Community Participants will bring their household food and brown waste (fruits &amp; vegetables, paper and cardboard) to be weighed, recorded, written on the scoreboard and then added to the compost bins every week</td>
<td>TBD</td>
<td>S.J.C.C. &amp; H.T.P.S.</td>
</tr>
<tr>
<td>Weighing, recording, reporting on the scoreboard and bagging Compost</td>
<td>TBD</td>
<td>S.J.C.C. &amp; H.T.P.S.</td>
<td></td>
</tr>
<tr>
<td>Friday Greenmarket for Compost, Produce &amp; Recycled Crafts</td>
<td>TBD</td>
<td>The Hope Town Post Office Dock</td>
<td></td>
</tr>
<tr>
<td><strong>Recycling Program</strong></td>
<td>Clean and sort Recycling Bins</td>
<td>Bin Maintenance Helper</td>
<td>Taylor Park &amp; H.T.P.S.</td>
</tr>
<tr>
<td>Weighing, recording, reporting on Community Score Board and ship Recycling (Cans &amp; Beer Bottles)</td>
<td>Bin Maintenance Helper and Students</td>
<td>Sunshine Park Shipping Port</td>
<td></td>
</tr>
<tr>
<td>Build Second Recycling Bin for Aluminum Cans</td>
<td>TBD</td>
<td>Taylor Park</td>
<td></td>
</tr>
<tr>
<td>Build Bahamian Glass Bottle Recycling Depot</td>
<td>Thomas Bethel, Community Participants and students</td>
<td>Sunshine Park</td>
<td></td>
</tr>
<tr>
<td>Collect, maintain and weight glass bottle recycling.</td>
<td>Thomas Bethel</td>
<td>Glass Bottle Recycling Depot</td>
<td></td>
</tr>
<tr>
<td>Work with 3 local establishments to implement aluminum can recycling bins on site (3 of the 5 new Recycling Bins)</td>
<td>Monica Cook, Juliette Deal and Students</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Reduce Program</strong></td>
<td>Community Consumerism Survey about the current community perspective on consumption and waste. The survey will have 10 yes/no questions and will be conducted by the Students.</td>
<td>Monica Cook, Juliette Deal and Students</td>
<td>Throughout the Community (door to door and via e-mail)</td>
</tr>
<tr>
<td>Data Collection on the use of disposables by local establishments and grocers (# of cases per month = volume of usage by unit) at the beginning and end of Phase 2.</td>
<td>Juliette Deal and Students</td>
<td>Throughout the Community (Scheduled meetings)</td>
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<tr>
<td>Activity</td>
<td>Responsible Party</td>
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<td>-------------------------------------------------------------------------</td>
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<tr>
<td>Make infographic posters for the community about the importance of <strong>Refusing</strong> plastic bags, take-out cutlery, condiments and napkins and <strong>Reusing</strong> via reusable water bottles, to-go containers, cutlery and drink cups.</td>
<td>TBD S.J.C.C.</td>
<td></td>
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<tr>
<td>Weigh, record and report on the Scoreboard the amount of household paper used for recycled paper making projects.</td>
<td>TBD S.J.C.C.</td>
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<tr>
<td>Recycled Paper Post Card Making from recycled household paper waste to make postcards for Rentals Homes and the Green Market. The Postcards will be painted by students, the scenes will be about our natural Bahamian Environment.</td>
<td>TBD S.J.C.C.</td>
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<tr>
<td>Monthly VHF Radio Announcements on the <strong>Reduce Program</strong> during the morning Cruiser’s Net</td>
<td>TBD Private Homes</td>
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<tr>
<td>Weigh, record and write on the Scoreboard the amount of donated materials for the Borrow-A-Bag Program.</td>
<td>TBD H.T.P.S.</td>
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<tr>
<td>Make reusable shopping bags from donated clothes and materials for the “Borrow-A-Bag” bins for the grocery stores</td>
<td>Nakia Wilhoyte (Hope Town Canvas), Monica Cook and Students Hope Town Canvas</td>
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<tr>
<td>Collecting, washing “Borrow-A-Bag” Bags and returning clean bags to the grocery stores.</td>
<td>Mercedes Lowe (Harbour View Grocery Store), Monica Cook and Students Private Homes</td>
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<tr>
<td>There will be survey cards provided in the grocery stores on the public’s perception of the “Borrow-A-Bag” Program to be filled in onsite and placed inside of a locked box with a slit (for anonymity).</td>
<td>Juliette Deal and Students TDB</td>
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</tr>
<tr>
<td>Collect discarded materials from the dump and construction site waste bins (with approval from the construction companies) to use for our activities such as the Waste Scoreboard, Urban Garden, 2nd Recycling Bin, Beer Bottle Recycling Depot and Signage.</td>
<td>TBD The Hope Town Dump and active construction sites</td>
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<tr>
<td><strong>Workshops</strong> Bahamas Plastic Movement Workshop teaching about reducing our impact, bringing students together from Eleuthera and Hope Town to work on a collaborative waste diversion project in the workshop and field trip.</td>
<td>Kristal Ambrose, Bahamas Plastic Movement (BPM) Founder and 5 BPM Student Ambassadors S.J.C.C. &amp; Field Trip</td>
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</tbody>
</table>
1.5 Implementation Plan and Time Frame

Please see the detailed Implementation Plan for Phase 1 & 2 attached, along with the detailed Budget.

6. Plan to Ensure Community Participation

Committee and Community Support
Justin Higgs, Amanda Lightbourn-Higgs, Monica Cook and Juliette Deal are all active members within the community. The community of Elbow Cay is conscious about environmental issues and concerns. It is the birthplace of Friends of the Environment. This Project fits right in line with the community’s vision to strive for environmental awareness and stewardship. The Project has full support from the Hope Town Community. We have been striving towards this initiative since 2014. Each activity is designed by the Hope Town Zero Waste Project Committee to include community members, students, volunteers and helpers. These projects will be equal opportunity activities (for females and males) that are inclusive to all nationalities, age groups and those with disabilities.

Student, Committee Member & Community Participant Feedback

In Table # 4 above, each activity has a committee member or community participant involved in the program as the key contact. The committee member and/or community participant will be responsible for the implementation and monitoring of that activity. The evaluation of each activity will be conducted by a Committee Member. The evaluation and reporting will take the form of an anonymous survey to the students about the activity, what they have learned and if they feel this is a valuable skill. The Committee Member / Community Participant will fill in a short qualitative feedback form as well. This reporting will be included in the 3rd QRT and Final Progress Report for the Project.

Student Volunteer Certification Program

Each student will have a volunteer form that will list each activity they are involved with, the # of volunteer hours they have put in and what they have learned in bullet point format. One Committee Member and/or Community Participant will sign off on the form for each activity. This will lead to a final Hope Town Zero Waste Volunteer Certification Award at the end of the 2 Year Demonstration Project for each participating student. The award will list the (1) total # of volunteer hours for each student; (2) the total weight of recycled materials diverted from the landfill by category; (3) the total weight of the compost created; (4) the total amount of produce grown; (5) and the amount and description of waste diverted from the landfill by reusing discarded materials from the Hope Town Dump, donations and active construction sites.

7. Knowledge Management

<table>
<thead>
<tr>
<th>Platform</th>
<th>Who</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed saving workshop using seeds from the produce grown in the Urban Garden to show how to preserve the seeds for the next season.</td>
<td>TBD</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td>Food Preservation workshop on how to jar, can and freeze food to prevent food waste.</td>
<td>TBD</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td>How to start and maintain a home compost.</td>
<td>Juliette Deal, Community Participants and Students</td>
<td>S.J.C.C.</td>
</tr>
<tr>
<td>A workshop on Aquaponics Farming</td>
<td>Mike Lightbourn (Sir Eden &amp; Lightbourn Family Farms)</td>
<td>S.J.C.C.</td>
</tr>
</tbody>
</table>

| Platform | Who | When |

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3
8. Gender Mainstreaming
The Hope Town Recycling Program is an equal opportunity program. Both female and male students participate in the program equally. Our Hope Town Recycling Committee is comprised of 3 females and 1 male, each with supporting and equal roles. The same approach will be taken for the Hope Town Zero Waste Demonstration Project.

9. Communication and Replication of Project Results

Public Scoreboard: We will be creating a Resource Diversion and Waste Mitigation Community Scoreboard to show the amount of monthly diversion for each Resource and Waste Stream Category (aluminum cans, compostables, glass bottles, reused materials and construction site waste). The Scoreboard will be located by the first Recycling Bin at the Hope Town Primary School, which is a high traffic area. This way locals and visitors alike can keep track of our progress as an island, and encourage participation and further engagement with the Project. The results will be shown by weight, indicating the volume diverted from the landfill through composting, recycling and reusing.

Public Document: Each Community Participant and Committee Member will have access to a live ‘Hope Town Zero Waste Activity Log’ through a shared and editable Google Document. This document will outline and detail each activity in chronological order with the goals, objectives, budget, list of the participants involved, timeline and materials needed (if applicable). The Student survey responses after the completion of the activity and evaluation from the Committee Member / Community Participant will be included in the rolling document following the activity information listed above (ex. activity outline, evaluation, student survey, then the next activity listed). This document will be included as part of the 3rd QRT progress and 6th QRT Final report.

Public Knowledge Mobilization (KM) Platforms: The progress of the Hope Town Zero Waste Demonstration Project will be disseminated to the community through our KM Platforms listed in Table #5. The KM timeline follows a logical framework to allow the project to develop a baseline of initial results from activities, and then report the progress through various platforms in tune with peak seasons and low seasons.

Public Video: Each activity will be digitally recorded, which will then be incorporated into a 20 minute YouTube video in the 5th QRT highlighting what our project is about, the activities, results, outcomes and how to get in contact with us for more information.

Public Final Report: At the end of the project the live Google Document will be turned into a formal final report that will include (1) the original project proposal; (2) the detailed outline for each activity and the evaluations after completion; (2) a spreadsheet with the waste diversion data from weighing the recycling, compost, compostable, reused materials, construction site waste and the produce grown for the project; (3) monthly financial reporting; (4) supporting documentation such as surveys, baseline data collection from the establishments, letters of support, comments and feedback from the community and visitors through our KM platforms listed in table #5, along with copies of the newspaper and magazine articles written. The outcome will be the creation of a complete digital book of the project in detail and it’s progress. We wish to disseminate this through our website as a free downloadable PDF to encourage other islands to incorporate some of these initiatives and use the project as a template to implement on different levels and scales, depending on their logistics and community support.

SECTION B

Project Risks, Monitoring & Evaluation

2.0. Risks to Successful Implementation

Table # 6
2.1. Monitoring, Evaluation Plan and Indicators

Please refer to table #5 for the key contacts responsible and the Project Implementation Plan attached.

Project monitoring schedule

- Upon completion of each activity, students will be asked to fill in an anonymous survey about the event and what they have learned. Committee Members / Community Participants will also be asked to evaluate the activity and the final results on a standard form that will be incorporated into the live Google Document for the Project. The Committee Members / Community Participants evaluation, along with the student surveys will also be reviewed for comments on how to improve the next activity.
- Data Collection from weighing the recycling, compost and produce will be recorded monthly into a waste tracking software to keep track the volume per month and the grand total. This information will be placed on the Waste Scoreboard, on our website and incorporated into the Final Report.
- The Project Implementation Plan and a calendar of events will be uploaded to the website and Facebook Page to show the list of activities scheduled and the timeline. This way students, parents, community participants and committee members will have real-time access to the schedule and list of activities through the KM Platforms.

GEF SGP Project Indicators
Climate Change
CCM5: Tonnes of CO₂ avoided through improved land use and climate proofing practices.
Project: This will be achieved by reducing the volume of waste shipped from Elbow Cay to the Marsh Harbour Landfill due to our waste reduction and diversion initiatives. The weight difference will contribute to less CO₂ released from the barge and the reduction of waste burned in the landfill, which will lead to a reduction in air pollution and ground leaching of toxic contaminants.

International Waters
IW: Tonnes of land-based pollution avoided
Project: This will be achieved through our waste reduction initiatives through reusing, recycling and composting. The volume of waste diverted will be tracked, recorded and publicly displayed.

Chemicals (POPs)
POPs: Tons of solid waste prevented from burning by altering disposal
POPs: Kilograms of harmful chemicals avoided from utilization or release
Project: This will be achieved through our waste reduction initiatives through reusing, recycling and composting. The volume of waste diverted will be tracked, recorded and publicly displayed.

Capacity Development, Policy and Innovation
CD: Number of community-based monitoring systems demonstrated
Project: The project will monitor, track and record the waste diverted through a Waste Management Software, a public Scoreboard, a live Google Document for each activity, 3rd QRT & 6th QRT Progress Reports and multiple KM platforms.
CD: Number of people trained on: project development, monitoring, evaluation
Project: Each community member and committee member will be trained and be an integral part of the implementation of the project to ensure it’s success beyond the two year demonstration project.

Livelihoods, Sustainable Development, and Empowerment
Cross-Cutting: Number of participating community members
Project: The project has 5 committee members, 6 community participants with local businesses, 1 CBO from Eleuthera (Bahamas Plastic Movement) and 25 students committed to the project to date.
Number of days of food shortage reduced
Project: The project aims to produce vegetables and spices in the Urban Garden. The lowest income families will be given fresh produce during each harvest. Students from all economic backgrounds will take home the produce from the Urban Garden as well. The remaining produce will be sold at the Friday Green Market. Total number of days without food shortage = approx. 120 days.
Number of NGO’s/ CBO’s formed or registered
Project: The Hope Town Recycling Program
Number of Women-led projects supported
Project: The Hope Town Recycling Program is predominantly run by 3 women. The majority of the activities for the project will be run by woman. The Hope Town Zero Waste Project is an equal opportunity Project.
Number of financial mechanisms put in place
Project: The Hope Town Recycling Membership will be the first of its kind in Abaco and possibly the Bahamas. This membership program aims to encourage community financial support, engagement and responsibility about the waste that is generated locally through development, daily usage and tourism.

2.2 Sustainability of Results Achieved

The Hope Zero Waste Demonstration Project aims to engage the community on Resource Diversion and Waste Mitigation techniques through habitual changes needed to reduce our environmental impact. By incorporating students, community participants and visitors to be a part of each activity, we aim to include the community at large to be an integral part of the Project. As the data is collected, this will encourage ongoing participation and a sense of community pride as a model project by showing the volume diverted publicly.

Elbow Cay has a vibrant home rental industry and active second homeowner community with over 200 rental homes on the island. The locals and second homeowners have been inquiring about how they can do more to help in terms of recycling and waste diversion, especially with regard to the amount of tourism that comes to the island. The Hope Town Recycling Program Annual Membership will be the financial engine to ensure the continuation of the project beyond funding. The Membership is a way for community members and establishments to partake in these efforts and for rental homes to contribute to the community with their support as well. The GEF SGP grant would allow the project to build and implement vital initial infrastructure and educational programming that would lay the foundation for the continuation of the Program beyond the Project Scope. The Final Report will be a playbook that will be used by our community to build upon and develop further programming, while making the information openly available for other Islands and Cays to use and implement as well.