

Fort Collins Rotary Club

Santa Maria Orphanage Water Storage Reservoir



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November 6, 2019

Project Background

The Santa Maria Orphanage is located near Colon Mexico. This orphanage was started in the early 1970s when a catholic priest was taking care of 10 children on the streets of Queretaro (santamariadelmexicano.org).

Since 2009, Santa Maria has been under the administration of the [Society of Our Lady of the Most Holy Trinity \(SOLT\)](#).

Santa Maria offers spiritual, educational, moral, vocational, and human formation to the most needy youth and elderly of Mexico. This nonprofit institution serves those who find themselves in need, in difficult life situations such as low income, difficult family situations, abuse, or neglect. Santa Maria works with families to provide the most integral and necessary care for each person.

The institution consists of five separate houses in and surrounding the town of Colón in the Mexican state of Querétaro. It provides primary, secondary, and high school education to all of its youth.

- San Jose: a home for boys in grades 1-6
- Santa Maria, Casa de Muchachos: a home for adolescent boys in grades 7-12
- Casa de Ninas: girls in grades 1-6
- Casa de Jovenes (muchachas): a home for adolescent girls grades 7-12
- Home for the elderly and also the administrative offices

Currently, including the youth and elderly, we serve 222 residents.

In 2012, Rotary club of Fort Collins and the Rotary Club of Queretaro (Mexico) provided funds for the “Spices to College” project. This project included the following:

1. Funding for the piping system from a large stone arch dam on the site to the irrigation fields
2. Funding for the pumping system from the lower dam site to the irrigation fields
3. Irrigation piping for the agricultural fields on the site. It was originally contemplated that Santa Maria would plant spices as a high value crop and then import these to the US. However, due to the customs and USDA requirements, it was determined that this goal was not feasible at the time. Therefore the fields were planted with corn and alfalfa to support the livestock on at the orphanage.

A copy of this project report is found in Attachment A.

Community Assessment

The community assessment is a continuation of the projects done by the various Rotary clubs. In 2005, the Fort Collins Rotary Club was granted a matching grant to improve the sanitation at the orphanage by

installing a wastewater treatment system and associated sanitary sewers. This system resulted in the overall increase in health at the orphanage while allowing the orphanage to meet environmental standards set by the Mexican government.

The wastewater treatment system was designed by Carroll College (Helena MT) Engineers Without Borders chapter. The design and implementation of this project was from 2005 to 2009. This included the wastewater treatment and an aqua culture reuse system of a tilapia farm. The tilapia operation is still an issue and it being addressed by a separate organization in Mexico.

The increase in the raw water storage for agricultural needs was performed in 2018 and 2019. This assessment was the result of working with the Staff at Santa Maria, the Carroll College (Helena MT) Engineers without Borders chapter and the Hope for Children Foundation in Denver CO. As a result of the assessment (see Attachment C), it was determined that increasing the efficiency of the existing reservoir system was the best option for the facility. This will increase the amount of land at the orphanage that can be placed into agricultural land and increase the sustainability of the orphanage. It will also provide for education of the young men and women at the facility in running a farm and managing crops.

The Queretaro Rotary Club provided a cost of this lining of the existing reservoir which is the basis for this Global Grant. This estimate is found in Attachment B.

Critical Needs

The Carroll College EWB chapter along with Dr. David Stewart, PE, have assessed the needs of the orphanage to increase the amount of land used for the orphanage. Currently, the irrigation system allows for 30 acres of land to be cultivated.



Figure 1 - Existing Agricultural Land

We believe that an additional 40 acres of land can be added to this system of irrigation with the lining of the two irrigation ponds on the site.



Figure 2 - Increase of Agricultural Land

Measurement of Success

The measurement of success will be the increase in the amount of acreage added to Santa Maria and the decrease in the amount of funds needed to sustain the operation. This will be measure in acres of land in cultivation and the cost reduction due to the crops raised at the facility.

Fr. Dan Estes and his staff will collect this information. The Carroll College EWB chapter will also review and collect information for the next 5 years as part of their commitment to the project.

The staff will also be implementing the farming techniques that will assist in the education of the young men and women at the orphanage. Currently, each child is assigned duties on the farm as part of their commitment to helping the organization. This will be part of the overall teaching effort at Santa Maria.

Budget

The budget for this project is \$67,000. This is based on the construction estimate by the Queretaro Rotary club as one of its members is a local heavy contractor. Currently, the project is listed on matchinggrants.com. We have raised close to \$50,000 and will be completing the fund raising with local rotary clubs and foundations in the first quarter of 2020.

Existing Contributions towards Project	Date	Cash	DDF	Total
Queretaro	8-May-19	\$3,000	\$3,000	\$6,000
Fort Collins	8-May-19	\$4,000	\$8,000	\$12,000
Logan	27-Oct-19	\$1,000		\$1,000
Loveland	17-Nov-19	\$1,000	\$2,000	\$3,000
Remaining to Raise		\$18,334		\$18,334
Amount Requested from TRF		\$13,667	\$13,000	\$26,667
Total				\$67,000

Attachment A

Spices to College Project Report – 2012

Santa Maria Orphanage
Spice to College Project



Progress Report

District Grant #: 1039

Project Report: #2

Fort Collins Rotary Club

June 2013

Project Description:

- 1. Briefly describe the project. What was done and where did the project activities take place? Who were the beneficiaries?** This project is to provide a water resource system, including irrigation piping, fencing, distribution piping and drying racks for the development of a spice project. The spices will be sold at a profit in Mexico and the United States. The estimated profit is between \$10,000 to \$20,000 per year, depending on the types of spices grown and the market for this crop. This project takes place at the Santa Maria orphanage in Colon Mexico. Our club has been associated with this project for over 7 years. We are in the final stages of this project to promote sustainability of the orphanage. The beneficiaries are 300 to 400 orphans in Colon Mexico.
- 2. How many Rotarians participated in this project?** Twenty three Rotarians participated in this project to date. There are 5 club Rotarians from the Fort Collins club, 5 Rotarians from the Helena, Montana club, 3 Rotarians from the San Luis Valley club and 10 Rotarians from the Queretaro Mexico club.
- 3. What did they do?** Their activities were utilized through the installation of the piping of the project, the pumping system installation, the planning of the spices and harvesting, the drying rack installation and the overall financial management of the project.
- 4. How many non-Rotarians benefited from this project?** The orphans at the site, which number between 300 and 400, will benefit from the education and the profits from the project. The profits are placed into a local foundation that will provide post-secondary education for 10 to 20 orphans per year. The staff at the orphanage benefit from the educational opportunities of the project. There are also the benefactors of the orphanage which are over 30 individuals in Queretaro that also benefit from the project through financial assistance on the post-secondary education program.
- 5. What is the expected long-term community impact of this project?** We anticipate that this will be part of the overall project for sustainability of the orphanage. We have provided wastewater treatment and reuse, a rabbit project, a tilapia project in the past. We anticipate that the spice to college project will provide overall education in agriculture as well as financial management for the orphans to allow them to obtain jobs in this area in the future and encourage them to pursue a secondary education.
- 6. If a cooperating organization was involved, what was their role?** There were two organizations involved. The first is Engineers without Borders – Carroll College chapter in Helena, Montana. They provided the overall engineering on the project and the supervision of the construction of the irrigation system. The second organization was Hope For Children Foundation in Denver Colorado. They provided assistance and matching funds (\$7,000) for the project along with financial management at the project and orphanage.
- 7. Previous Update:** A previous update is provided in Attachment A on this project.
- 8. Financial status:** Currently, we have used the initial funding provided by the clubs and District in 2011-2013. These funds have been expended to provide the construction of the project to date, which include the main distribution line, the irrigation of 2 fields and the pumping system. We have obtained the funds for the 2012-2013 year (\$7,000) and these funds will be used in

October 2013 for the final three fields for irrigation. Please see Attachment B for receipts to date.

- 9. Picture of the project:** I have provided progress pictures of the project for your review in Attachment C.

Attachment A
Previous Report

MEMORANDUM

To: Fort Collins Rotary Club – World Community Service Committee
CC:
From: David R. Stewart, PhD, PE
Date: December 19, 2012
Subject: Sustainability of Mexico Project and the Future
Project No.: 999.2012

Alan has asked that I provide an update to the committee on the Santa Maria orphanage project as well as the future of other projects on sustainability. I am in Houston today so I can not make the meeting but here is my written report.

Progress at the Santa Maria Site

The Spice to College project is the recent addition to this project. The irrigation main lines have been installed and are working. The final main line work was performed by Carroll College in October of this year. The installation of fencing and irrigation lines will be completed in March of 2013.

We are anticipating that the planting will begin in March through May of 2013 for the initial 2 acres. This will allow for testing of the various types of irrigation as well as making sure that we are getting the correct planting and fertilization performed at the site.

I am working with Susan Kirkpatrick and others on the wholesale of the spices in the US. We have a lot of work to complete here to get this going. In the meantime, Earl is working with Rotary clubs in Mexico to distribute spices locally.

We are also investigating the best use of the greenhouse on the site. Currently, the orphanage is growing tomatoes in the greenhouse and this is working very well.



This project should be in full swing in 2014 with 10 acres under management, that will be fenced and distributing spices for the college fund.

Santa Maria Master Plan

We are still waiting on the proposal from ICATIS Mexico to get the cost of the master plan. We should have this in the beginning of January. This will be an important piece of the project to allow for maximizing the growth of the spices as well as implementing new projects, such as the water filters.

Ceramic Water Filters

We have negotiated a project with ICATIS Mexico to help construct water filters at the site in San Miguel and working with the Queretaro Rotary Club to place these filters into the market place. We have not finalized all aspects of this yet, but should have that completed in March of this year. The concept is to utilize the MK Kiln at ICATIS Mexico in San Miguel. Several of the children will be involved during the making and fire of the filters. This will teach them a new skill. The water filters will then be assembled at the orphanage for sale by the Rotary Club of Queretaro. This will lower the cost of water for people in rural areas by 90% and provide a very clean and healthy water source. The profits from this operation will go into the college fund held by the local charity for the orphanage.

Rotary Club of Queretaro – Chicken Project

The Rotary Club of Queretaro has approached us to help with the funding of a 1,500 chicken operation at the orphanage. This would be in conjunction with a local chicken operation and is mostly funded by the company. The Rotary club is looking to obtain a large grant of \$60,000 for this project. It would provide food for the orphanage as well as profits from the sale of chickens. A lot more research needs to go into this project, but we are beginning that at this time

Sustainability

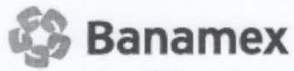
The sustainability of this project is found in several ways:

1. **Financial Sustainability:** As shown in the above efforts, this project is sustainable in that once the capital cost for the project is provided (through Rotary and others), the project generates capital to cover the operating costs and a profit for the project. This profit is then utilized for education. As part of this concept, the individual orphans that benefit from the college fund are required to either give time (equal to the amount of time provided in college) or to pay for expenses if they do not have the time. This provides ongoing funding for the overall orphanage and its success.
2. **Environmental Sustainability:** The environmental sustainability is provided by utilizing local resources that are renewable. So, the spices are grown locally and naturally in the area. The ceramic microfilters utilize materials from the local area and the fuel is a renewable source as well. This lowers the impact of the project substantially.
3. **Social Sustainability:** The social sustainability is the impact of the project on the local community. The orphans are being taught new skills at the orphanage where they can utilize these new skills in the community. An example is the aqua culture of the tilapia project. There is a significant need for this type of knowledge in this new area of commerce in Mexico. If the orphans take advantage of the post secondary education provided by the profit of the project, then they are required to either provide time, talent or money to support the orphanage, thereby expanding and funding the project in perpetuity.

Rotary International and New Projects Utilizing this Model

Rotary International has requested that we provide training and knowledge transfer of this project in other areas. So, we are working on two sites in Africa to provide this type of training. Our district is applying for a VTT program to provide training in water treatment, such as the tilapia project and the ceramic microfilters. I have also been asked to work with the Houston Rotary club on a project in Malawi to provide engineering and similar activities in several orphanages in that country. Our club will have the opportunity to work on these projects as well.

Attachment B
Financial Receipts



Jueves 27 de Junio de 2013, 12:45 PM Centro de México

BancaNet
Empresarial

Reporte

Cliente	73986212
Razón Social	SANTA MARIA DEL MEXICANO DE COLON QR

Movimientos de Cuenta Cheques

Resumen de Cuenta

Junio

Tipo de cuenta	Cheques	Cuenta	50652
Sucursal	868	Periodo	Mes Actual

Resumen del 01/06/2013 al 26/06/2013

Saldo anterior	12,198.02	Fecha de último corte	31/05/2013
Depósitos (0)	\$ 0.00	Fecha de último movimiento	21/02/2013
Retiros (0)	\$ 0.00	Importe línea de crédito	\$ 0.00
Saldo al 26/06/2013	\$ 12,198.02	Saldo línea de crédito	\$ 0.00
		Disponible en línea de crédito	\$ 0.00



AQUASEM

AQUASEM DEL CENTRO, S.A. DE C.V.

Nombre SANTA MARIA DEL MEXICANO DE COLON
 QUERETARO IAP
 R.F.C. SMM950905MK3
 DIAZ MIRON No. 52

COLON QUERETARO ARTEAGA
 México C.P. 76270

Emisor Régimen General de Ley Personas Morales

R.F.C. ACE120127MS1
 IGNACIO ALLENDE SUR
 907 0
 FRANCISCO MURGUIA TOLUCA
 TOLUCA ESTADO DE MEXICO
 México C.P. 50130

Expedido en

IGNACIO ALLENDE SUR
 907 0
 FRANCISCO MURGUIA TOLUCA
 TOLUCA ESTADO DE MEXICO
 México C.P. 50130

Impresión de un comprobante fiscal digital


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 Serie: A Folio: 15
 Fecha: 2013-01-31T17:16:20

Tipo comprobante: ingreso
 Moneda: MN Tipo de cambio: 1
 Condiciones de Pago: Pago en una sola exhibición
 Forma de Pago: Contado
 Método de Pago: No identificado

Folio fiscal: 86865f51-af47-41c8-b7a8-533e5fe1a608

Artículo	Descripción	Unidad	Cantidad	Precio	Importe
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Total con letra: TREINTA Y SIETE MIL DOSCIENTOS NOVENTA Y DOS PESOS 69 /100 MN



Cadena original del complemento de certificación digital del SAT

IMPORTE: \$37,292.69
IMPUESTO: \$0.00
TOTAL: \$37,292.69

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80 2E8976503 -30

Banamex Banco Nacional de México, S.A.
Integrante del Grupo Financiero Banamex

PAGUESE POR ESTE CHEQUE A

Aguasem del Centro SA de CV \$ 37,292.69


(Cuenta y siete mil doscientas noventa y dos pesos 69/100 M.N.)

CUENTA DE CHEQUES
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E COLON QRO IAPA EN P
RFC SMM950805MK3
Cuenta 08680050652 Suc. EZEQUIEL MONTES 0868
EZEQUIEL MONTES, QRO.

MARGARITO V. JANCHEZ
FIRMA

NUMERO DE CUENTA NUMERO DE CHEQUE

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TREJO **CENTRAL-FERRETERA TREJO S.A. DE C.V.** 

Av. Constitucion 143
Col. Centro CP. 76650
Ezequiel Montes, Qro
RFC: CFT840325LA6

Sucursal: **CONTRIBUYENDO AL DESARROLLO DE LA REGION**
Av. del progreso 15
Col. Los Velazquez CP. 76650
Ezequiel Montes, Qro
RFC: CFT840325LA6

FECHA
29/enero/2013

FOLIO
6678

FOLIO FISCAL
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CERTIFICADO SAT
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CERTIFICADO DIGITAL
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SERIE
FB

Nombre: SANTA MARIA DEL MEXICANO DE COLON, QRO. IAP
Domicilio: DIAZ MIRON No.52
Localidad: COLON
CP: 76290
Tipo de Comprobante: ingreso

Colonia:
Municipio: COLON
Estado: QUERETARO

País: México
RFC: SMM950905MK3
Fecha Emisión: 2013-01-29

CLAVE	CANTIDAD	DESCRIPCION	UNIDAD	PRECIO	IMPORTE
MCAL004	10	ALAMBRE PUAS BRONCO 30KG.	RL	\$529.5603	\$5,295.60

FORMA DE PAGO No identificado	CUENTA No identificado	CONDICION Credito	REGIMEN GENERAL DE LEY
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IMPORTE: \$5,295.60
IMPUESTO: \$847.30
TOTAL: \$6,142.90

Observaciones:



Total con letra:
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Credito a 15 días

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La reproducción apócrifa de este comprobante constituye un delito en términos de las disposiciones fiscales

CONDUCCIONES HIDRAULICAS DE QUERETARO

AGUA POTABLE R.F.C. YEDB 510710-FB2
C.U.R.P. YEDB510710MZSMML06

PASEO DE LAS PLAZAS No. 4 FRACC. LAS PLAZAS
C.P. 76180 SANTIAGO DE QUERETARO, QRO.
TELS. Y FAX: (442) 215-52-52, 215-33-38 NEXTEL: 52*33067**

Comprobante fiscal digital
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Método de pago y Cuenta:
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Orden de Compra:

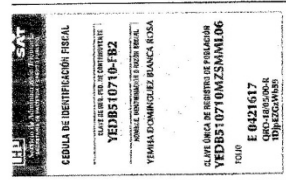
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21.00	pz	TEE CEMENTAR 2 X 2	0.00	12.80	268.80
42.00	pz	VALVULA BOLA UTILITY 2"	0.00	291.00	12,222.00
42.00	pz	ADAPTADOR PLASTICO 2 ***ESPIGA***	0.00	20.00	840.00
21.00	pz	CAJA P/ MEDIDOR POLIETILENO ***CAJA***	0.00	207.00	4,347.00
5.00	pz	BOTE PEGAMENTO 500 ML. #747 AZUL	0.00	80.00	400.00
42.00	pz	ADAPTADOR HEMBRA CEMENTAR 2	0.00	6.80	285.60
Subtotal					18,843.40
Descuento					0.00
I.V.A.					3,014.94
Total					21,858.34

VEINTIUN MIL OCHOCIENTOS CINCUENTA Y OCHO PESOS 34/100 M.N.

Este documento es una representación impresa de un CFD*

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 EMPRESARIAL/PROFESIONAL|SMM950905MK3|SANTA MARIA DEL MEXICANO DE COLON QRO I. A. P|SALVADOR DIAZ MIRON|52|COL. CENTRO|QUERETARO|COLON|QUERETARO|
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 ADAPTADOR PLASTICO 2|20.00|840.00|21.00|pz|CAJA P/ MEDIDOR POLIETILENO|207.00|4347.00|5.00|pz|BOTE PEGAMENTO 500 ML. #747 AZUL|80.00|400.00|42.00|pz|ADAPTAD

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DEBO Y PAGARE A LA ORDEN DE BLANCA ROSA YEMMA DOMINGUEZ EN SANTIAGO DE QUERETARO, QRO, EL DIA _____ DE _____ DEL
 20 _____ LA CANTIDAD DE \$ _____
 M.N. | VALOR RECIBIDO EN MERCANCIA A MI ENTERA SATISFACCION ESTE PAGARE ES MERCANTIL Y ESTA REGIDO POR LA LEY
 GENERAL DE TITULOS Y OPERACIONES DE CREDITO EN SU ART. 173 Y CORRELATIVOS POR NO SER PAGARE DOMICILIADO. EN CASO DE CHEQUES
 DEVUELTOS SE HARA UN CARGO DEL 20% SOBRE EL IMPORTE DE LOS MISMOS. SI ESTE PAGARE NO FUERA CUBIERTO A SU VENCIMIENTO
 QUEDD(AMOS) OBLIGADO(S) A PAGAR INTERESES MORATORIOS A LA TASA DE _____ % MENSUAL.

26032
 2607

ORIGINAL

FIRMA _____



Jueves 21 de Febrero del 2013, 5:16:48 PM Centro de México

Transferencia a otras cuentas	
Cliente	73986212
Razón Social	SANTA MARIA DEL MEXICANO DE COLON QR

Su transferencia ha sido **Aplicado** con número de autorización **113657**.

Autorizadores	Usuario 05	JUANA MORALES O
---------------	------------	-----------------

Cuentas	Cuenta retiro
	SANTA MARIA DEL MEXICANO D - 868/50652
	Cuenta de depósito o beneficiario
	BBVA BANCOMER - MXN 012680004463089454
	Nombre: BLANCA ROSA YEMHA DOMINGUEZ

Datos de la transferencia	Detalle	Valor
Importe MXN		\$ 21,858.34
Número de referencia		6308945
Concepto del pago		material para construccion
Clave de rastreo		085901136574305239
Tipo de cuenta		CLABE
Tipo de beneficiario		Persona Física
Fecha de aplicación		Mismo Día
Fecha valor		21/02/2013

"Este documento es sólo de carácter informativo, no tiene validez oficial como comprobante legal o fiscal"



Miércoles 27 de Marzo de 2013, 1:30 PM Centro de México



Reporte	
Ciente	73986212
Razón Social	SANTA MARIA DEL MEXICANO DE COLON QR

Movimientos de Cuenta Cheques			
Resumen de Cuenta			
Tipo de cuenta	Cheques	Cuenta	50652
Sucursal	868	Periodo	Mes Actual
Resumen del 01/03/2013 al 26/03/2013			
Saldo anterior	12,198.02	Fecha de último corte	28/02/2013
Depósitos (0)	\$ 0.00	Fecha de último movimiento	21/02/2013
Retiros (0)	\$ 0.00	Importe línea de crédito	\$ 0.00
Saldo al 26/03/2013	\$ 12,198.02	Saldo línea de crédito	\$ 0.00
		Disponible en línea de crédito	\$ 0.00

Reporte de movimientos de la cuenta # 50652

Fecha	Concepto	Beneficiario	No. De cheque	Monto	Saldo
31/12/2012					66,948.53
25/01/2013	deposito			17,514.00	84,462.53
28/01/2013	Riego aspersio	Aquasem del centro s.a. de c.v.	8	37,292.69	47,169.84
29/01/2013	cerca de puas	Central ferretera trejo s.a. de c.v.	9	13,113.40	34,056.44
21/02/2013	Productos de pvc	Conducciones hidráulicas de Qro.	Transferencia eletronica 6308945	21,858.34	12,198.10

21/02/2013 es la fecha del ultimo movimiento.

El saldo al 26/03/2013 es de 12,198.02

Attachment B
Progress Pictures



Figure 1 - Pumping System



Figure 2 - Pipeline Installation



Figure 3 - Water flowing

Queretaro Cost Estimate

A 11 de Marzo del 2019

Estimado Padre

De acuerdo a su solicitud, le estoy enviando el presupuesto que me solicitó, para la ampliación de los 2 bordos, así como el aislamiento requerido para evitar las filtraciones.

Este trabajo incluye lo siguiente para los dos bordos:

- Área de ampliación de cuencas:
 - Despalme (ripeo), relleno, compactación y colocación de membrana.
- Área de bordos de contención:
 - Compactación y relleno de superficie interior (lado del agua).
- Área cubierta por el agua (actual), no se le va a hacer nada, ya que no presenta signos de filtración.

Se están anexando a este presupuesto, costos unitarios de cada actividad, para que únicamente se pague lo que se haga, ya que como no se hizo un levantamiento topográfico previo, los volúmenes pudieran variar.

El tiempo que se estima para el desarrollo de estos trabajos es de 4 a 6 semanas.

Atentamente

Ing. Rogelio Rodríguez Rangel.



IMÁGENES BORDO 1 SANTA MARIA DEL MEXICANO, COLÓN QUERÉTARO





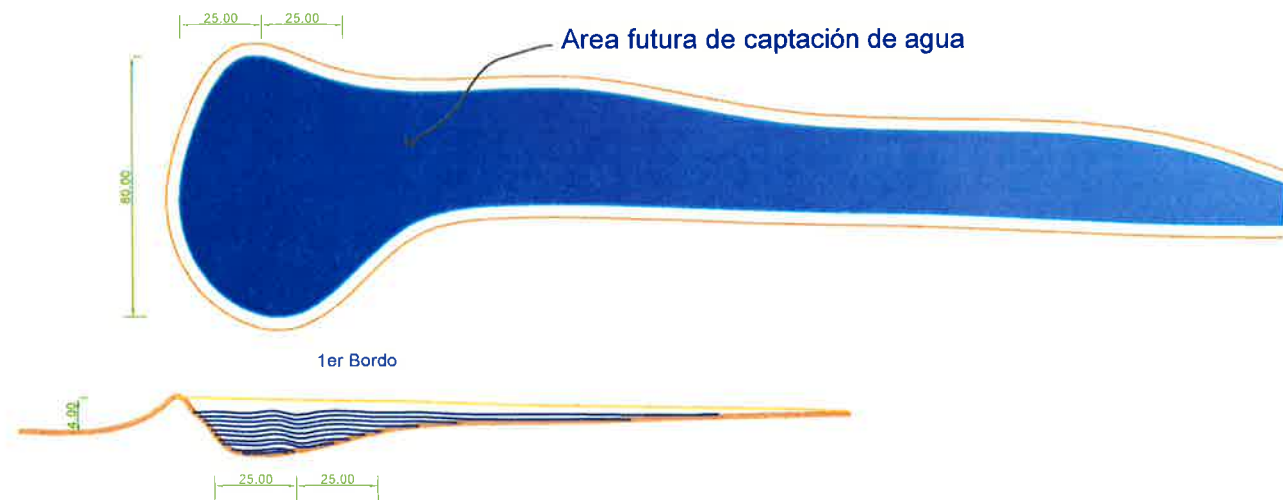
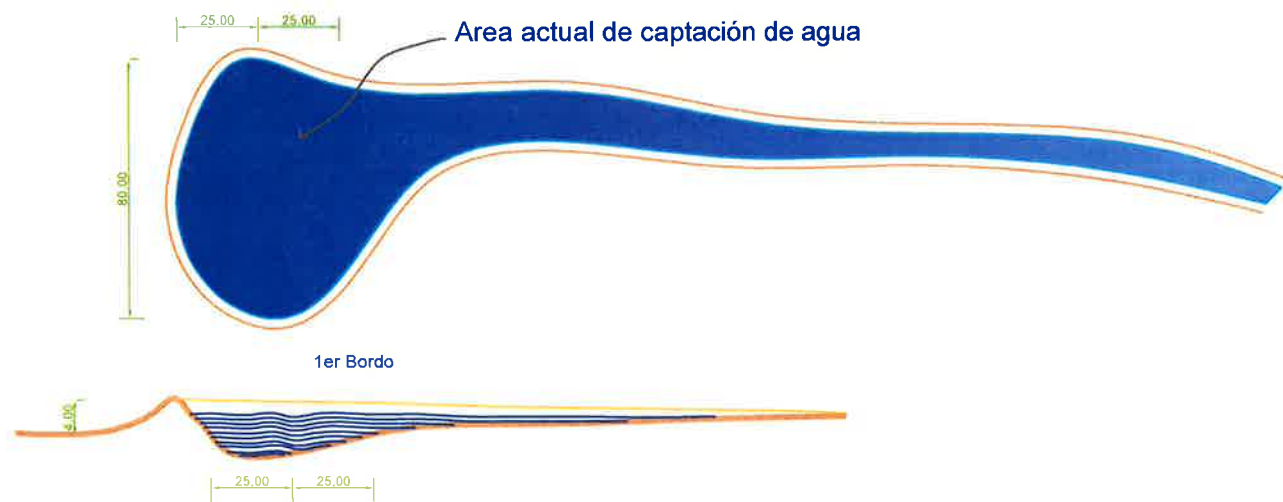
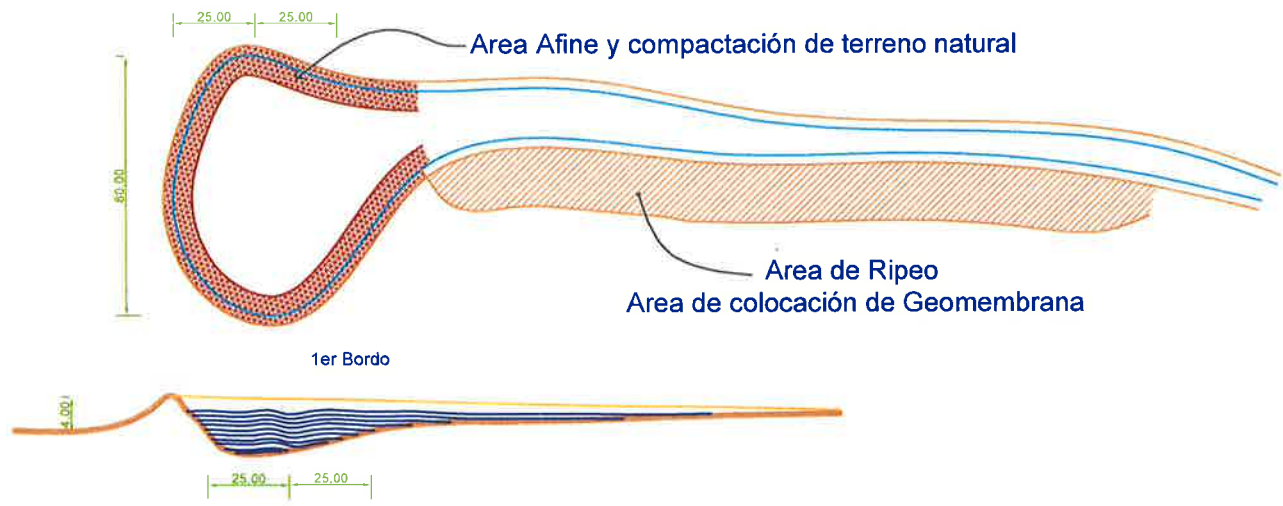


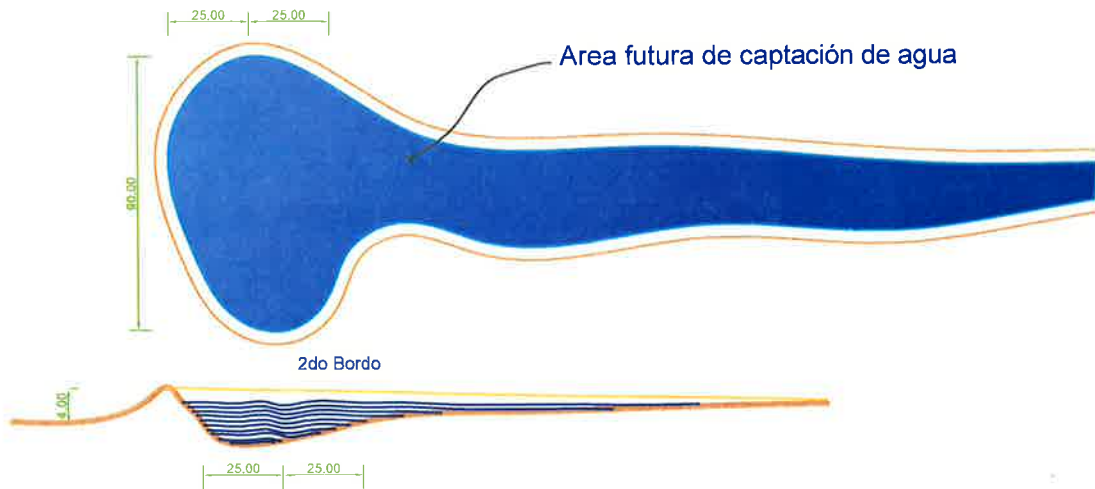
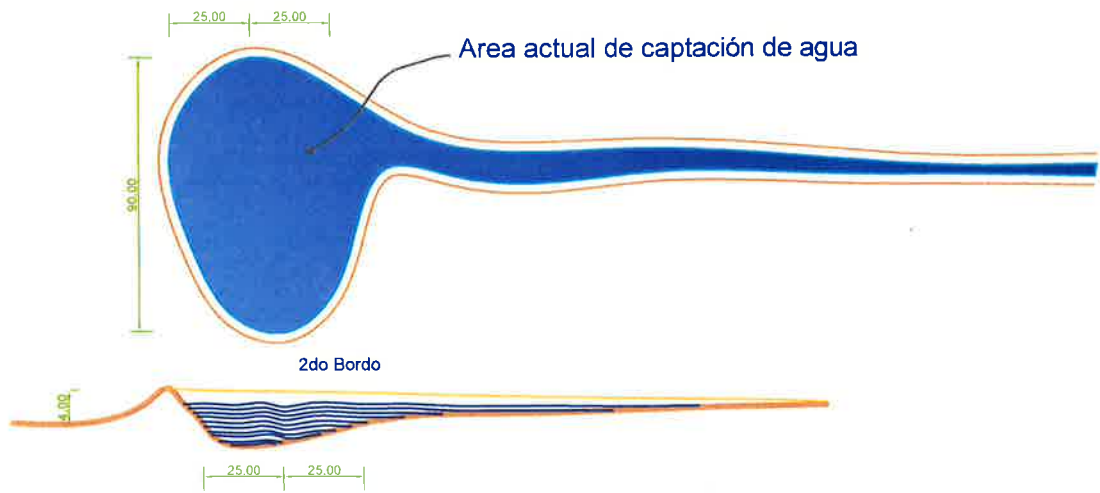
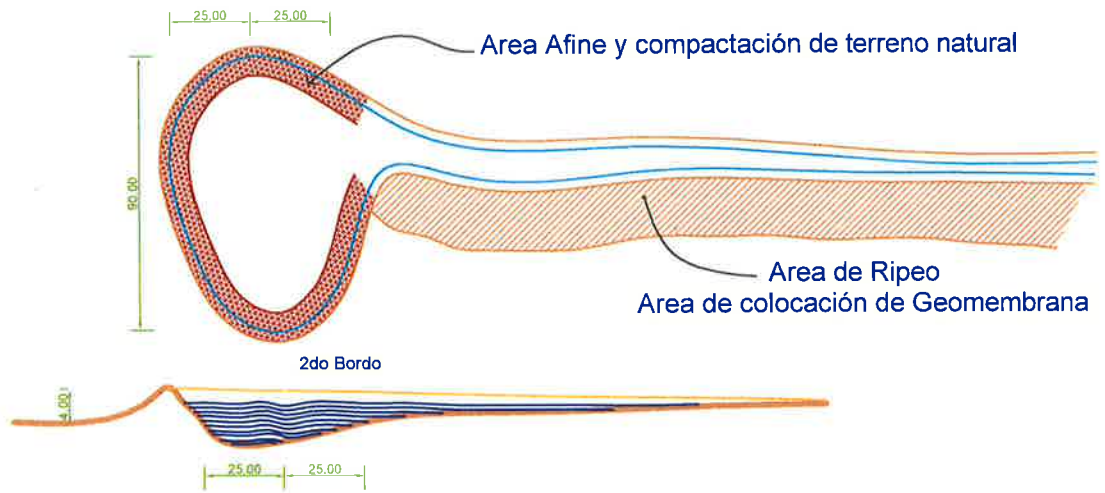
IMÁGENES BORDO 2 SANTA MARIA DEL MEXICANO, COLÓN QUERÉTARO











ESTE PRESUPUESTO ES A COSTO DIRECTO SIN CONSIDERAR UTILIDAD

11-mar-19

Arreglo de bordos para captación de agua en el municipio de Santa Maria el Mexicano, Colón, Qro.

CLAVE	DESCRIPCION	UNIDAD	CANTIDAD	PRECIO UNITARIO	IMPORTE
1er BORDO					
1	Trazo y nivelación de terreno para arreglo de bordos. Incluye: el equipo, estacado, calhidra, hilaza y mano de obra.	M2	6.380,00	\$ 8,53 \$	54.421,40
2	Añoje de Material a base de Tractor y Riper para conformación de cuenca.	M3	5.000,00	\$ 120,00 \$	600.000,00
3	Carga de material producto de la excavación, a máquina. Incluye: operación y maniobras locales.	M3	5.000,00	\$ 10,00 \$	50.000,00
4	Acarreo de material producto de excavación, Incluye: camión durante la carga y descarga a volteo.	M3	5.000,00	\$ 10,00 \$	50.000,00
5	Nivelación y Compactado de Bordo, con medios mecánicos de terreno natural, grado de compactación al 90% de densidad estandar proctor. Incluye adición del agua necesaria.	M2	1.380,00	\$ 48,84 \$	67.399,20
6	Suministro de Geomembrana lisa en ambas caras. Incluye: flete al sitio de la obra, descarga de material en el sitio indicado.	M2	3.990,00	\$ 55,00 \$	219.450,00
7	Colocacion de Geomembrana, incluye: corte y fijación al terreno, manejo del material, acarreo en el sitio de la obra a los puntos de colocación.	M2	3.990,00	\$ 22,09 \$	88.139,10
SUBTOTAL 1 \$					1.129.409,70
2do BORDO					
1	Trazo y nivelación de terreno para arreglo de bordos. Incluye: el equipo, estacado, calhidra, hilaza y mano de obra.	M2	7.070,00	\$ 8,53 \$	60.307,10
2	Añoje de Material a base de Tractor y Riper para conformación de cuenca.	M3	5.750,00	\$ 120,00 \$	690.000,00
3	Carga de material producto de la excavación, a máquina. Incluye: operación y maniobras locales.	M3	5.750,00	\$ 10,00 \$	57.500,00
4	Acarreo de material producto de excavación. Incluye: camión durante la carga y descarga a volteo.	M3	5.750,00	\$ 10,00 \$	57.500,00
5	Nivelación y Compactado de bordo con medios mecánicos de terreno natural, grado de compactación al 90% de densidad estandar proctor. Incluye adición del agua necesaria.	M2	1.320,00	\$ 48,84 \$	64.468,80
6	Suministro de Geomembrana lisa en ambas caras. Incluye: flete al sitio de la obra, descarga de material en el sitio indicado.	M2	4.180,00	\$ 56,00 \$	234.080,00
7	Colocacion de Geomembrana, Incluye: corte y fijación al terreno, manejo del material, acarreo en el sitio de la obra a los puntos de colocación.	M2	4.180,00	\$ 22,09 \$	92.336,20
SUBTOTAL 2 \$					1.256.192,10
SUBTOTAL \$					2.385.601,80
IVA \$					381.696,29
TOTAL \$					2.767.298,09

Attachment C

Community Assessment



GLOBAL GRANTS COMMUNITY ASSESSMENT RESULTS

Use this form to report community assessment findings to The Rotary Foundation when you apply for a global grant.

Assessing the strengths, weaknesses, needs, and assets of the community you plan to help is an essential first step in designing an effective and sustainable global grant project. See [Community Assessment Tools](#) for full instructions and helpful tips.

This form will help you report the results of your community assessment, and it's required when you apply for any humanitarian or vocational training team grant. Complete a separate form for each beneficiary community (e.g., school, health care system, or village), using information that is both current and specific to each community. Remember, you can't use global grant funds to cover the cost of doing an assessment, but you can use district grant funds.

Beneficiary community or institution

The Santa Maria orphanage/home for children. The organization started in 1970's and continues today helping 200 to 300 children between ages 2 to 22.

Groups in the community that would receive a clear, direct, and immediate benefit from the project

The children at the orphanage will be able to increase the amount of food raised for both themselves and their livestock at the orphanage to increase sustainability.

Beneficiaries' demographic information, if relevant to the project

Santa Maria orphanage/children's home is located in Colon Mexico. This is in the state of Queretaro. They have approximately 200 acres of land where the schools (elementary and secondary) along with the separate housing for the boys and girls. On the property, there is currently 35 acres of land used to raise crops (corn, alfalfa and other grains) for the manufacturing of tortillas, feed for the dairy cows for yogurt and milk for the orphanage and other crops for sustainability.

Who conducted the assessment? (check all that apply)

- Host sponsor members
- International sponsor members
- A cooperating organization
- University
- Hospital
- Local government
- Other [Click or tap here to enter text.](#)

Assessment dates

Assessments started in 2005. We have conducted assessments every few years. The assessment for this project occurred in 2018 and 2019.

What methods did you use? (check all that apply)

- Survey
- Community meeting
- Interview
- Focus group
- Asset inventory
- Community mapping
- Other [Click or tap here to enter text.](#)

Who from the community participated in the assessment?

Fr. Dan Estes is the supervising individual at Santa Maria. We have also used Carroll College Engineers without Borders, the Queretaro Rotary club and the Fort Collins Rotary club. The Hope for Children Foundation in Denver Colorado also assisted with the assessment.

List the community needs you identified that your project would address.

1. Additional storage of water for the increase of the land that can be irrigated and used to raise additional crops.
2. Provide teaching of the children in the agricultural trade. The area of Queretaro is one of the largest agricultural areas of Mexico. This training the raising the crops and livestock will allow the young men

women at Santa Maria to have a job when they leave the orphanage.

3. This project will increase the sustainability of the orphanage. This reduces the need for additional funds that will be used for education instead of subsistence.

List any needs you identified that your project would not address.

1. The Rotary grant is to provide the lining of the raw water reservoir. This grant will not cover the pumping and additional piping to the reservoir.

2. The pumping and additional piping is being paid by Hope for Children Foundation and the pump will be donated through Engineers without Borders Carroll College (Helena MT) alumni.

List the community's assets, or strengths.

1. The Santa Maria orphanage is one of the largest in Mexico. They have been taking care of children that can not be raised by their families due to their financial situation or the children have been abandoned. The orphanage has performed this service in the State of Queretaro since the mid 1970's. Currently, the orphanage is taking children from all over Mexico.

2. The orphanage has been operated by the Society of our Lady of the Most Holy Trinity (SOLT) out of Corpus Christi TX. This provides the stability needed for this organization.

3. The Hope for Children Foundation in Denver CO has been assisting with infrastructure projects since the late 1990's. HFC has worked with Rotary on several other projects at Santa Maria since 2005.

Considering the needs and assets you listed, explain how you determined the project's primary goal.

The project's primary goal is to provide additional water for Santa Maria to increase the amount of land available for farming. The land cannot support crops without additional water. The reservoirs are roughly installed at Santa Maria but do not hold water. The local geology and soils in the area are largely sand and rock. The reservoir was constructed with local materials. It has been determined by the engineers on this project that a synthetic liner (hypolon) is required for the reservoirs to hold water long term. In reviewing this with the staff and engineers both in the US and Mexico, it was determined that lining the reservoir would provide the best ability to increase farming operations at Santa Maria.

How would your project's activities accomplish this goal?

We are working with the Queretaro Rotary club which will obtain the necessary permits and engineering (Mexican Engineer) for the installation of the liner plus any improvements needed for the outlet works. The staff and older children will assist with the installation of the liner system (moving rocks, placing sand at the site, etc) along with the Rotary Clubs of Fort Collins and Queretaro. A local contractor will be used to provide the heavy equipment needed for the project. This will be one of the Rotarians from the Queretaro club.

What challenges have prevented the community from accomplishing the project's goals?

The reservoir has existed for approximately 10 years. However, the use of the water stored is very limited and therefore a liner system was requested and explored. It is only the ability of Santa Maria which focuses funds on the day to day expenses. This project will allow for raising more crops while reducing day to day expenses. Santa Maria can not come up with these funds due to the ongoing expenses of the orphanage.

How is the community addressing these challenges now?

The use what they can from the reservoir but there is not enough water to increase the size of the crop lands. The lining of this reservoir will double the size of the land used at the Santa Maria.

Why are the project's activities the best way to meet this community need?

By lining the reservoir, Santa Maria can use their existing resources more effectively while increasing the sustainability of the orphanage.