

Fort Collins Rotary Club

Santa Maria Orphanage Water Storage Reservoir



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November 6, 2019

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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.

Critical Needs

The Carroll College EWB chapter along with Dr. David Stewart 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.



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.



Currently, the ponds are not lined, and the soil is a sandy gravel mixture of degraded bedrock material. This allow for the shape of the pond and has held stormwater run off in the past. However, it in order to increase the amount of irrigated agriculture land, we need to line the ponds to maintain a source of water. Then Carroll College will extend the pumping system to include the new ponds.

This Rotary Grant application is to line one pond at this time. The cost of this lining project was obtained by the Queretaro Rotary club and a local contractor. A copy of this cost estimate is provided in Appendix B. However, the costs are estimated as follows:

1. Lining of one pond at the site - \$59,000
2. Extending the piping from the existing irrigation system - \$5,000
3. Additional pump at the river (pump to be donated by pump company in US and Carroll College) - \$3,000 (transportation and import fees)

Total proposed cost of the project is \$67,000 to extend the irrigation system, install the pump and line the one pond.

Cooperating Organizations and Partners

Carroll College (Helena MT) Engineers Without Borders chapter will provide the pumping and irrigation line design and oversee the installation of the system.

Hope For Children Foundation (Denver CO) will provide transportation funding for Carroll College EWB chapter and will cover any miscellaneous expenditures.

Santa Maria Orphanage will provide on-site staff oversight of the project. The staff will also use some of the high school students as a training opportunity on the construction of the piping, pump installation and pond installation.

Volunteer Travel

The various Rotary Club members will pay for their own travel to Mexico. Santa Maria will house and pay for all meals while in country. The Carroll College EWB students and faculty will have HFC pay for their travel.

Rotarian Participation

The Fort Collins Rotary club has 3 volunteers for this project. The Helena Montana Rotary club will send two members to participate (1 member is a faculty member at Carroll College). The Alamosa Rotary club will send two members on this project. The University Club (Denver CO) will send one member to help on this project.

The Queretaro Club will have 5 members assigned to assist on this project.

Project Budget

The project budget is \$67,000, which was presented in the previous section. The overall budget for funding is as follows:

Proposed Financing

GG application tbf tbd

 Country: **Mexico**

Please list all financing and indicate Cash or District Designated Fund (DDF) amounts.

Host Rotary Clubs/Districts	US\$ Cash Direct to Project	US\$ Cash to TRF + 5%		US\$ DDF	
		Cash to TRF	5%		
Queretaro (4140)	\$ 3,000		\$ -	\$ 3,000	
Total Host Contributions				\$ 6,000	27%
International Rotary Clubs/Districts	US\$ Cash Direct to Project	US\$ Cash to TRF + 5%		US\$ DDF	
		Cash to TRF	5%		
Fort Collins (5440)	\$ 4,000			\$ 8,000	
Logan UT (5420)	\$ 1,000				
Helena MT	\$ 1,000				
Alamosa	\$ 1,000			\$ 1,000	
			\$ -		
Total International Contributions				\$ 16,000	73% *
Total Contributions		\$ 10,000	\$ -	\$ 12,000	\$ 22,000 100%
Total 5% for cash sent to TRF			\$0		
World Fund match (50% Cash, 100% DDF)		5,000	-	\$ 12,000	17,000 **
Total Global Grant Funding				\$ 39,000	
Funding from other sources***				-	
Total Project Funding (must be equal to budget)				\$ 39,000	
Total cash to TRF + 5%		\$ -			

Ensure that all figures are whole numbers

* Contributions from the international partner must be a minimum of 30%.

** Minimum World Fund match is \$15,000. Maximum World Fund match is \$200,000.

*** Please identify the source(s) of other funding. Note that outside funding added here is not matched by TRF.

The Foundation will match non-Rotarian contributions provided they do not come from a cooperating organization or a beneficiary of the project. Contributions eligible for a match should be added in the section above.

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 in 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
Razón Social

73986212
SANTA MARIA DEL MEXICANO DE COLON QR

Movimientos de Cuenta Cheques

Resumen de Cuenta

Junio

Tipo de cuenta
Sucursal

Cheques
868

Cuenta
Periodo

50652
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.**

Receptor

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

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

COLON QUERETARO ARTEAGA
México C.P. 76270

Impresión de un comprobante fiscal digital

Número de certificado 00001000000200601887
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
V	FACTURA QUE AMPARA LA ADQUISICION DE UN LOTE DE PRODUCTOS Y COMPONENTES VARIOS EXCLUSIVOS PARA INTEGRAR UN EQUIPO DE RIEGO COMPLETO, CON FORME AL ARTICULO 2-A, FRACCION I, INCISO E O G DE LA LEY DEL IMPUESTO AL VALOR AGREGADO. (PROYECTO REALIZADO EN COLON, QUERETARO).	NO APLICA	1	\$37,292.69	\$37,292.69

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

Veinte y siete mil doscientas noventa y dos pesos 69/100 M.N.

\$ 37,292.69

CUENTA DE CHEQUES
SANTA MARIA DEL MEXICANO D
E COLON QRO IAPA EN P
RFC SMM950805MK3
Cuenta 08680050652 Suc SUC.EZEQUIEL MONTES 0868
EZEQUIEL MONTES, QRO.

MÓNEDA NACIONAL

Margarito V. Sanchez

FIRMA

NUMERO DE CUENTA NUMERO DE CHEQUE

1101:516860022:08680050652:00000008

TREJO

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

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

Sucursal:
Av. del progreso 15
Col. Los Velazquez CP. 76650
Ezequiel Montes, Qro
RFC: CFT840325LA6

CONTRIBUYENDO AL DESARROLLO DE LA REGIÓN

FECHA
29/enero/2013

FOLIO
6678

SERIE
FB

FOLIO FISCAL
516FA46-644F-4BFD-C651-908BF5798AF5

CERTIFICADO SAT
00001000000104871381

CERTIFICADO DIGITAL
00001000000104594669

Nombre: SANTA MARIA DEL MEXICANO DE COLON, QRO. IAP

Colonia:

Domicilio: DIAZ MIRON No.52

Localidad: COLON

Municipio: COLON

Estado: QUERETARO

CP: 76290

País: México

RFC: SMM950905MK3

Tipo de Comprobante: ingreso

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

IMPORTE: \$5,295.60

IMPUESTO: \$847.30

TOTAL: \$6,142.90

Observaciones:

Total con letra:
SEIS MIL CIENTO CUARENTA Y DOS PESOS 90 /100 MN
Credito a 15 días

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SELLO SAT

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

Pagina 1 of 1

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2013.enero.29

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

Serie: A

Folio: 24484

No. de aprobación: 478238

Año de aprobación: 2012

Fecha: 2013-02-22T13:07:17

Forma de pago: Pago en una sola exhibición

Método de pago y Cuenta:

No identificado

TRANSFERENCIA BANAMEX

Domicilio fiscal

Calle: PASEO DE LAS PLAZAS No. 4, Col. LAS PLAZAS, CP: 76180, QUERETARO, QUERETARO, MEXICO

Razón social: BLANCA ROSA YEMHA DOMINGUEZ R.F.C. YEDB 510710-FB2

Facturado a: (3771) SANTA MARIA DEL MEXICANO DE COLON QRO I. A. P

Calle: SALVADOR DIAZ MIRON No. 52, Col. COL. CENTRO, CP: 76270, QUERETARO, COLON, QUERETARO, MEXICO. RFC: SMM950905MK3

Régimen fiscal:

REGIMEN PERSONA FISICA CON ACTIVIDAD EMPRESARIAL/PROFESIONAL

Orden de Compra:

Cantidad	Unidad	Descripción	% Desc	P/U	Importe
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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 ***CHICA***	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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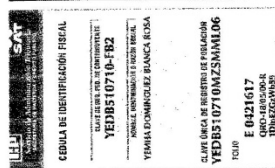
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Número de serie del Certificado de Sello Digital:

00001000000201661326



DEBO Y PAGARE A LA ORDEN DE BLANCA ROSA YEMHA DOMINGUEZ EN SANTIAGO DE QUERETARO, QRO, EL DIA _____ DE _____ DEL
20 _____ LA CANTIDAD DE \$ _____

M.N. I 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 QUEDAMOS OBLIGADO(S) A PAGAR INTERESES MORATORIOS A LA TASA DE _____ % MENSUAL.

ORIGINAL

FIRMA _____

26032

2607



BancaNet
Empresarial

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
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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**

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

BancaNet
Empresarial

Reporte

Cliente
Razón Social

73986212
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

Attachment B

Queretaro Rotary Club 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 (ripeno), 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





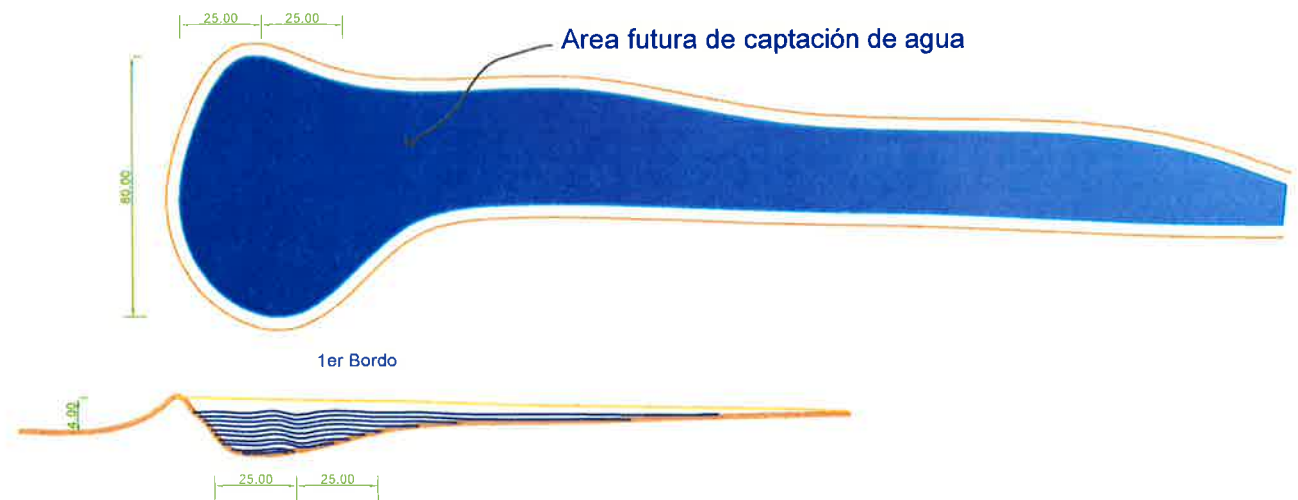
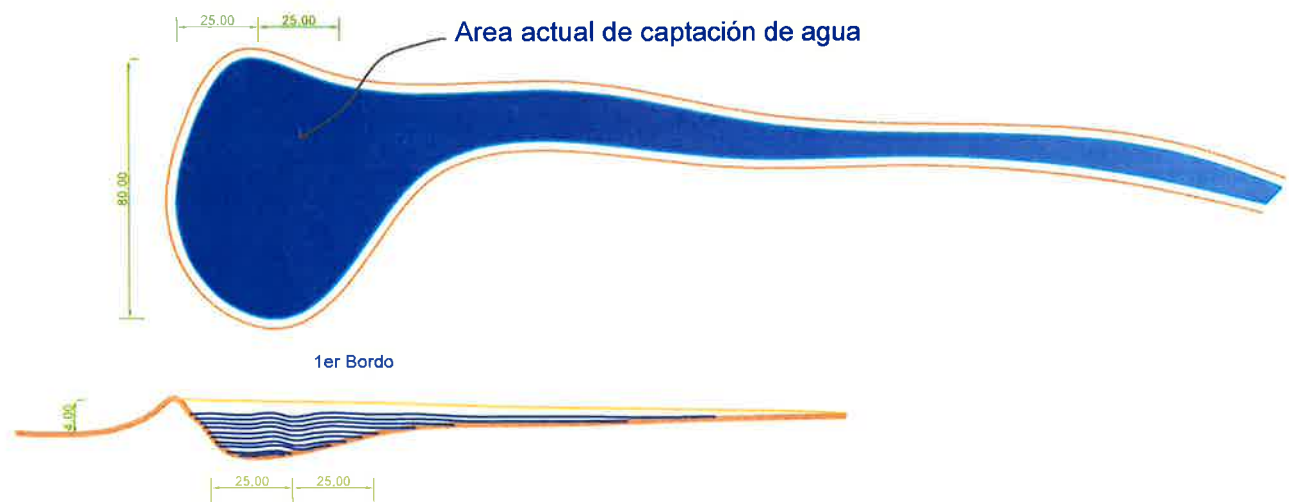
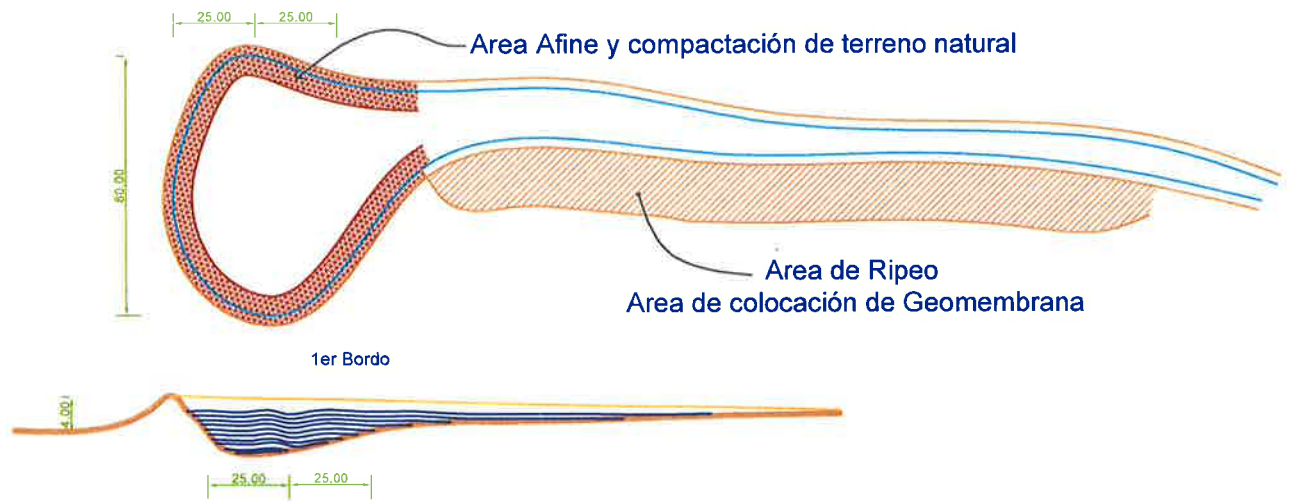


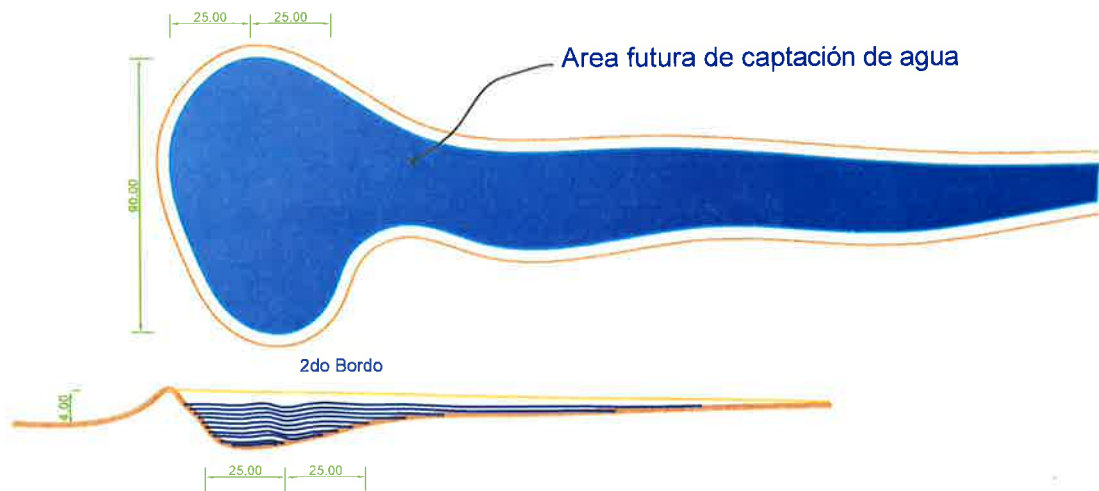
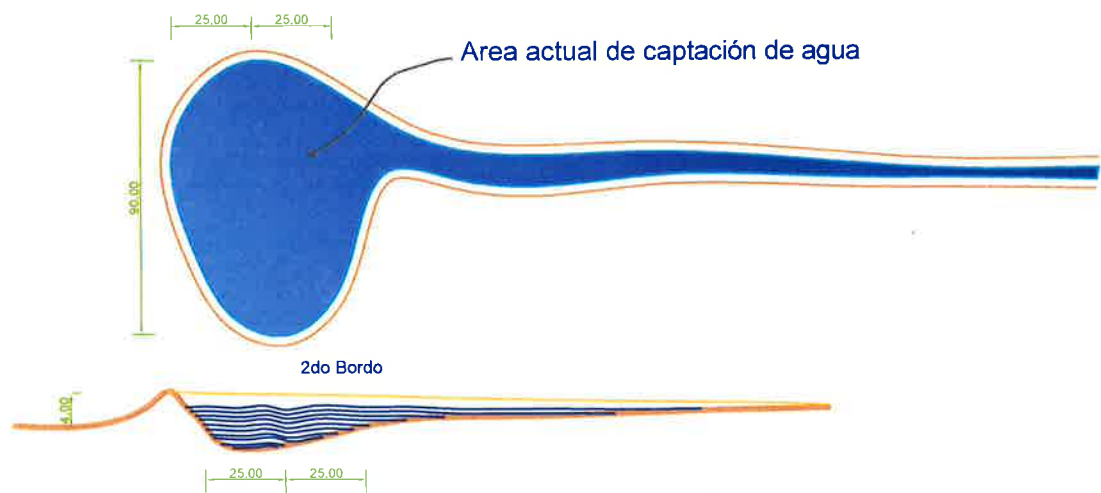
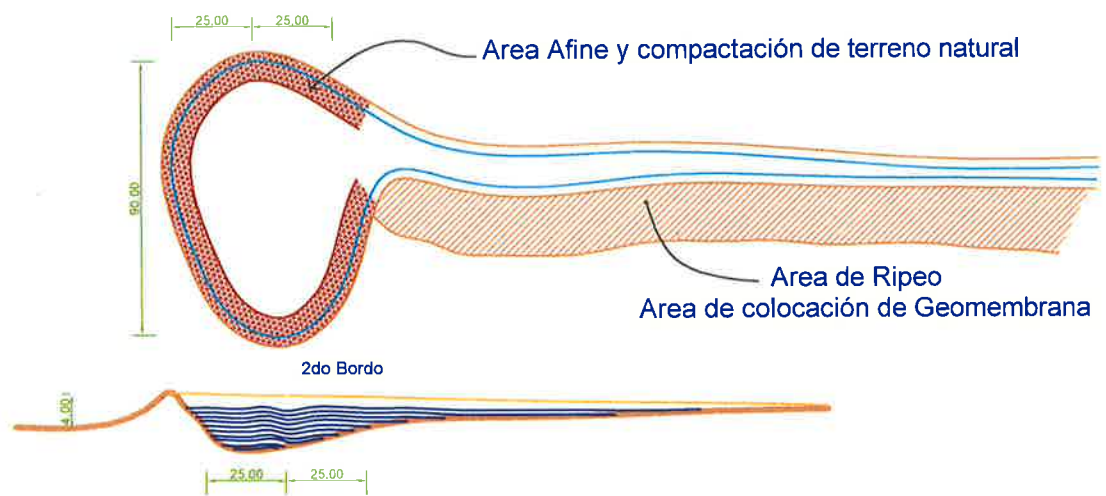
IMÁGENES BORDO 2 SANTA MARIA DEL MEXICANO, COLÓN QUERÉTARO











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	Afloje 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	Afloje 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