COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Gunnison Basin – Nellie Creek Toilet Retrofit
Contract CORE No. POGG1 2018-1005
CMS #

June 12, 2018

Lake Fork Water Conservancy District
Attn: Camille Richard, Executive Director
P.O. Box 123
Lake City, CO 81235

Dear Grantee:

We are pleased to inform you that the Colorado Department of Natural Resources, Colorado Water Conservation Board (CWCB) has approved your application for funding pursuant to the WSRF Grant Program ("Program") in the amount of $11,000.00. This letter authorizes you to proceed with the Nellie Creek Toilet Retrofit Project ("Project") in accordance with the terms of this Grant Award Letter.

Attached to this letter are the terms and conditions of your Grant. Please review these terms and conditions, as they are requirements of this Grant to which you, Lake Fork Water Conservancy District, agree by accepting the Grant Funds. The WSRF Criteria & Guidelines can be located on our website for additional information.

If you have any questions or concerns regarding the project, please contact Craig Godbout, Project Manager at 303-866-3441 or at Craig.Godbout@state.co.us. Please send the 6-month progress reports and invoices directly to the Project Manager and cc me at Dori.vigil@state.co.us.

Thank you.

Sincerely,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441 ext. 3250
1313 Sherman Street, Rm. 719, Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.com

Attachments

STATE OF COLORADO

Department of Natural Resources

ORDER	******IMPORTANT******
Number: POGG1,PDAA,201800001005	**The order number and line number must appear on all invoices, packing slips, cartons, and correspondence. Please review each line for its corresponding shipping/ billing address and delivery instructions.**
Date: 6/12/18	
Description: PDAA 2500 Nellie Creek Toilet Retrofit in GRB	
Effective Date: 06/11/18 **Expiration Date:** 12/31/18	

BUYER

Buyer:

Email:

VENDOR

LAKE FORK VALLEY CONSERVANCY
PO BOX 123
LAKE CITY, CO 81235-0123

Contact: .

Phone: .

EXTENDED DESCRIPTION

Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	$11,000.00	☐

Description: PDAA 2500 Nellie Creek Toilet Retrofit in GRB

Service From: 06/11/18 Service To: 12/31/18

Delivery Instructions

FOB: FOB Dest, Freight Allowed Delivery Date: -

Ship To:	Bill To:
COLORADO WATER BOARD CONSERVATION	COLORADO WATER BOARD CONSERVATION
1313 SHERMAN STREET, ROOM 718	1313 SHERMAN STREET, ROOM 718
DENVER, CO 80203	DENVER, CO 80203

TERMS AND CONDITIONS

https://www.colorado.gov/pacific/osc/small-dollar-grant-award-terms-conditions

DOCUMENT TOTAL = $11,000.00

Last Update: January 9, 2018

Colorado Water Conservation Board	
Water Supply Reserve Fund	
Exhibit A - Statement of Work	
Date:	**2/29/2018**
Water Activity Name:	**Nellie Creek Toilet Retrofit**
Grant Recipient:	**Lake Fork Valley Conservancy**
Funding Source:	Asking WSRF for $11,000, UGRWCD $13,650 cash, Hinsdale County $500 cash, Forest Service $2,000 cash and $8,000 in-kind and LFVC $1,00 in-kind

Water Activity Overview: (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.

The Nellie Creek trailhead to Uncompahgre Peak is located west of Lake City, Colorado, on the Gunnison National Forest. This is one of the most popular peaks in North America and attracts an enormous amount of hikers. There is a Forest Service operated restroom at the trailhead that has not been properly composing and was closed several years ago. Since then the waste collection vault has cracked, leaking human waste onto the ground about 20' from Nellie Creek. During rain events the human waste is washed into Nellie Creek.

There needs to be a functioning toilet if we want to preserve water quality of Nellie Creek and to protect downstream users. Currently there is so much human waste in the woods near the trailhead it's been advised on online forums not to camp at the trailhead because of the human waste and toilet paper. All this human waste is inevitably flowing into Nellie Creek, which is a valuable recreational creek and fisheries. This stream is becoming a public health hazard and those who rely on drinking water and water for agricultural downstream are paying the price.

Objectives: (List the objectives of the project)

There are two parts to the project. **Part 1- Waste Removal:** Human waste near the stream is a serious health and environmental issue. The first step to rectifying this issue is to remove the waste from the leaking vault and remove the vault. The road leading up to Nellie Creek Trailhead is difficult to drive and only maintained for small 4 wheel drive vehicles with high clearance. Due to the rough condition of the road (4 miles), a regular vault pump truck is not able to drive to the site. This project will require a small truck and many loads. It will also require someone with hazmat training to handle human waste. The waste material is mixed with wood chips and cannot go to the county water treatment center. Therefore the waste will have to be dried and taken to the dump. Due to these factors the cost to remove the waste and to haul away the vault will be higher than if near a highly maintained road. This part of the job will also require the installation of a urine drain field.

Part 2 - Retrofit: The restroom building is in decent condition, besides the leaking vault and the lack of composting, and therefore the most cost effective option is a retrofit of the current building. The existing composting system is not working and we have researched an alternative composting system made by Toilet Tech Solutions (TTS). This system has been

used to retrofit a toilet on the Ouray Ranger District at a similar elevation and situation. The District has reported the toilet is composted well.
An excellent YouTube showing how the TTS system works can be found at www.toilettech.com. Toilet Tech offers a low-cost and low-hazard solution for waterless human waste management at high use sites. Toilet Tech's urine diverting toilets are superior to: expensive barrel fly out toilets, hazardous and ineffective conventional composting toilets, and water polluting pit toilets. The system works by diverting 100% of urine to a drain field. When fecal matter and toilet paper are separated from urine, the solid matter composts better by being consumed by microbes leaving little residue and low odor.

LONG TERM PLAN

The restroom will require cleaning and some maintenance. We will be partnering with the Forest Service and other partners, to maintain the restroom, about $1000/year. The Forest Service will enter into a Collections Agreement with its partners to guarantee funding to support the restroom. In return, restroom sponsors/partners can put their name on the restroom or receive donations. For example, Trout Unlimited could say 'Sponsored by the local Trout Unlimited Chapter, a great place to release your browns'. Last summer Coal Creek Watershed Coalition placed a PVC donation tube next to the Musicians' porta-toilets up the Slate River and received $330 in donations. We will continue with the donation tube to help pay for the restroom.
In addition to the restroom, there will be an educational component. The US Forest Service is hiring 2 crews of 8 people through the YCC (Youth Conservation Corps) next summer FY18. Part of the duty of the YCC members will be to educate the public about stewardship of the land and leave no trace ethics.

Tasks
Provide a detailed description of each task using the following format:
Task 1 - (Name) **Remove vault tank and human waste and install urine drain field**
Description of Task:
The Nellie Creek toilet has been closed for 5 years because the vault is 100% full and has not been composting as we hoped. This is because the toilet is in the shade, at high elevation and utilizes old composting techniques that don't work. The vault is 20+ years old and is cracking and leaking human waste onto the ground. During heavy rains water washes that human waste directly into Nellie Creek just a few yards away. See Part 1 above for more details.
Method/Procedure:

Last Update: January 9, 2018

Tasks
The first task of this project will be to remove the human waste from the vault and then remove the vault. The next part will be to install a urine drain field for the new composting system to work.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
This will be done by a contractor that has the training to deal with human waste disposal. The human waste and vault will be disposed of properly to a landfill and/or waste facility. Contractors will also build a urine drain field far enough away from the stream to no be an issue in the future.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
We will provide documentation and photos of the full vault removal and removal of human waste and the final invoice of the work.

Tasks
Provide a detailed description of each task using the following format:
Task 2 - (Name) **Retrofit existing building for a composting toilet**
Description of Task:

Last Update: January 9, 2018

Tasks
To build a new building would be very costly, so we are proposing to retrofit the existing building. We have contacted a company, Toilet Tech (toilettech.com), out of Seattle,that specializes in composting toilets for high elevation, cold, shaded and hard-to-get-to places. There toilets have proven to compost at difficult site all over North America and South America. The US Forest Serviced installed a similar retrofit composting toilet at a very high elevation location on the Ouray District, Ouray Colorado. The US Forest Service, Ouray District, has reported they have been very pleased with Toilet Techs ability to retrofit a toilet they have had trouble with in the past.
Method/Procedure:
Toilet Tech Solutions (TTS) offers a low-cost and low-hazard solution for waterless human waste management at high use sites. Toilet Tech's urine diverting toilets are superior to: expensive barrel fly out toilets, hazardous and ineffective conventional composting toilets, and water polluting pit toilets. TTS has the exclusive rights to the Ecodomeo conveyor in North America (and some South American countries). TTS has branded the Ecodomeo seat the Behind the Wall (BTW) urine diverting conveyor. This system won a Janu Design Award in Europe in 2013. One of its greatest attributes, after 99% source separation of urine, is that is conveys solid waste through the rear wall of the toilet for further processing. This lateral movement of the waste gives the toilet enormous flexibility and toilet users are spared the view of 10,000 previous deposits; instead they see a black conveyor belt, which is automatically cleaned by a dual set of scrapers on the underside of the belt. Urine diversion is the critical component in creating low-cost, low-hazard, low-odor waterless toilets. When urine mixes with fecal matter, excess ammonia create odor and toxic conditions in the waste. When urine is diverted prior to mixing with fecal matter, it can be safely treated by onsite soil. Fecal matter that hasn't been soaked with urine can be consumed by a wide range of invertebrates (worms, nematodes, and mites) without any bulking agent. Humans are the only mammal on the planet to pee on their poo. TTS's rugged urine diversion systems re-establish the natural diversion of urine away from fecal matter so that urine can fertilizer local plants and soil invertebrates can consume fecal matter, naturally.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
We expect a fully retrofitted Toilet Tech toilet installation. The company also provides a lifetime support for all its toilets. If the toilet does not work as it should (ie compost human waste) we will work directly with Toilet Tech to fix the problem.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
We will document and provide a full report of the retrofit and its ability to compose human waste and the final invoice of the work.

Repeat for Task 3, Task 4, Task 5, etc.

Last Update: January 9, 2018

Budget and Schedule

Exhibit B - Budget and Schedule: This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format. A separate excel formatted Budget is required for engineering costs to include rate and unit costs.

Reporting Requirements

Progress Reports: The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

Final Report: At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

Performance Requirements

Performance measures for this contract shall include the following:
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
(b) Accountability: Per the Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per the Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.
(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.
(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.

PROJECT TITLE: NELLIE CREEK TOILET RETROFIT

APPLICANT:
Lake Fork Valley Conservancy (LFVC)

CONTACT INFORMATION:
Camille Richard, Executive Director
PO Box 123
Lake City, CO 81235
970-944-5382
c.richard@lfvc.org

ESTIMATED START DATE:
June 2018

ESTIMATED COMPLETION DATE:
September 2018

AMOUNT OF FUNDING REQUEST:
$11,000(32% of total project cost)

MATCHING AMOUNT PROVIDED:
- U.S. Forest Service (USFS) will contribute $2,000 in cash and $8,000 in-kind support (NEPA and Contract oversite)
- Hinsdale Country will contribute $500 in cash
- We are also applying for a Water Supply Reserve Fund (WSRF) Grant though the Gunnison Round Table and the Colorado Water Conservation Board for $11,000

TOTAL PROJECT COST:
$36,150 ($27,150 in cash, $9,000 in-kind)

PROJECT SPONSORS(S):
Lake Fork Valley Conservancy in partnership with the Hinsdale Board of County Commissioners ($500 cash and letter of support), USFS ($2,000 cash, $8,000 in-kind, and letter of support) and Trout Unlimited (Letter of support), and the WSRF for $11,000 (grant not yet submitted).

PROJECT DESCRIPTION:
PROJECT LOCATION
The Nellie Creek trailhead to Uncompahgre Peak is located west of Lake City, Colorado, on the Gunnison National Forest. Uncompahgre Peak is the 5th highest mountain in Colorado. Uncompahgre Peak is also the highest peak on Colorado's Western Slope and is the highest point in Hinsdale County. **This is one of the easier, more popular peaks in the United States and attracts an enormous amount of hikers.** It needs a functioning toilet if we want to preserve water quality of Nellie Creek and the river it flows into, Henson Creek**.** Currently there is so much human waste in the woods near the trailhead it's been advised on online forums not to camp at the trailhead because of the human waste everywhere, not to mention all the toilet paper. All this human waste is inevitably flowing into Nellie Creek, which is a valuable recreational creek and fisheries.

MAP

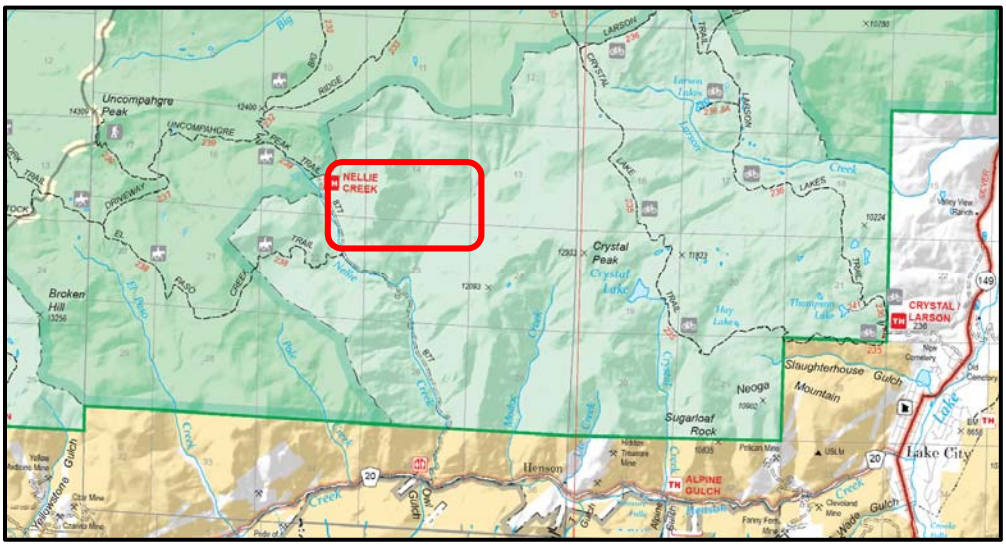

FIGURE 1. THE RED SQUARE OUTLINES THE LOCATION OF NELLIE CREEK TRAILHEAD AND TOILET LOCATION.

FIGURE 2. THIS IS THE TRAILHEAD SIGN WITH UNCOMPAHGRE PEAK IN THE BACKGROUND. THIS IS ONE OF THE MOST POPULAR TRAILHEADS IN HINSDALE COUNTY.

HISTORY

In 1996 a composting toilet was installed at the Trailhead for Uncompahgre Peak. The toilet was placed just above Nellie Creek. Due to the overgrowth of vegetation (shading the toilet) and the elevation, the waste inside the vault has not been decomposing as designed. Waste has been building up and in 2014 the toilet was filled to the brim and closed to further use. **The vault is now leaking human waste out onto the ground inside the vault room. When the area receives heavy rain, water floods the vault room and human waste water is delivered directly to Nellie Creek a few feet away.**

ENVIRONMENTAL COMPLIANCE- CLEAN WATER ACT

The Colorado Water Quality Control Commission (WQCC) administers the Clean Water Act in Colorado. The Clean Water Act mandates the protection of designated water uses. Many waterbodies within the Grand Mesa, Uncompahgre, and Gunnison National Forest are classified for recreational water use. The WQCC has adopted *E. coli* standards to protect recreational water users from sickness that may result

from ingesting incidental amounts of water (e.g. splashes encounter while swimming, boating or fishing). USFS lands may be a source of *E. coli* due to dispersed camping, recreation, human waste issues, and grazing adjacent to waterbodies. **The waste water flowing from the toilet to the stream are a source of *E. Coli* to the watersheds, which leads into the Lake Fork of the Gunnison, and then into Blue Mesa, which is a high use recreational reservoir.**

FIGURE 3. THIS IS A PHOTO OF THE INSTALLATION OF NELLIE CREEK TOILET IN SEPTEMBER 1996.

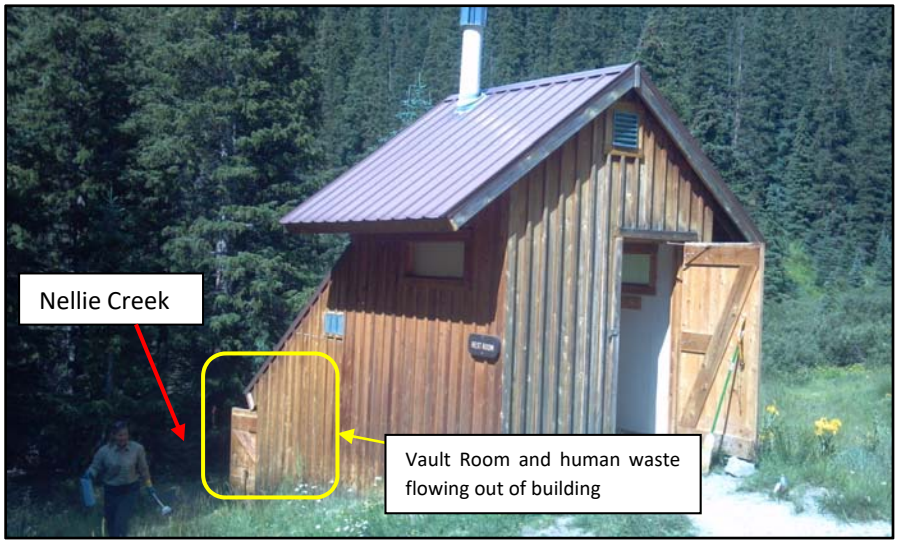

FIGURE 4. THIS PHOTO IS FROM 2013 WHEN THE TOILET WAS STILL BEING MAINTAINED AND THE VAULT WAS NOT YET FULL. SINCE THEN, THE VAULT HAS FILLED AND THE RESTROOM IS CLOSED.

FIGURE 5. THIS IS A PHOTO OF THE FULL VAULT. EVEN THE BLACK VENT PIPE IN PHOTO RIGHT IS FULL OF HUMAN WASTE THAT HAS NOT DECOMPOSED.

PHASE 1

Human waste near the stream is a serious health and environmental issue. The first step to rectifying this issue is to remove the waste from the vault and remove the leaking vault. The road leading up to Nellie Creek Trailhead is difficult to drive and only maintained for small 4 wheel drive vehicles with high clearance. Due to the rough condition of the road (4 miles), a regular vault pump truck is not able to drive to the site. This project will require a small truck and many loads. It will also require someone with hazmat training to handle human waste. The waste material is mixed with wood chips and cannot go to the county water treatment center. Therefore the waste will have to be dried and taken to the dump. Due to these factors the cost to remove the waste and to haul away the vault will be higher than if near a highly maintained road.

PHASE 2

The restroom building is in decent condition, besides the leaking vault and the lack of composting, and therefore the most cost effective option is a retrofit of the current building. The existing composting system is not working and we have researched an alternative composting system made by Toilet Tech Solutions (TTS). This system has been used to retrofit a toilet on the Ouray Ranger District at a similar elevation and situation. The District has reported the toilet is composted well.

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LONG TERM PLAN

The restroom will require cleaning and some maintenance. We will be partnering with the Forest Service and other partners, to maintain the restroom, about $1000/year. The Forest Service will enter into a Collections Agreement with its partners to guarantee funding to support the restroom. In return, restroom sponsors/partners can put their name on the restroom or receive donations. For example, Trout Unlimited could say 'Sponsored by the local Trout Unlimited Chapter, a great place to release your browns'. Last summer Coal Creek Watershed Coalition placed a PVC donation tube next to the Musicians' porta-toilets

up the Slate River and received $330 in donations. We will continue with the donation tube to help pay for the restroom.

In addition to the restroom, there will be an educational component. The US Forest Service is hiring 2 crews of 8 people through the YCC (Youth Conservation Corps) next summer FY18. Part of the duty of the YCC members will be to educate the public about stewardship of the land and leave no trace ethics.

Last Update: 10/17/17

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Supply Reserve Fund

EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs

Date: 2/29/2018

Water Activity Name: Nellie Creek Toilet Retrofit

Grantee Name: Lake Fork Valley Conservancy

Task No.[1]	Description	Start Date[2]	End Date	Matching Funds (cash & in-kind)[3]	WSRF Funds (Basin & Statewide combined)[3]	Total
1	Remove vault tank and human waste and install urine drain field	6/2018	10/1/2018	UGRWCD $13,650 cash, Hinsdale County $500 cash, Forest Service $1,000 cash and $4,000 in-kind	$3,000	$22,150
2	Retrofit existing building for a composting toilet	7/1/2018	10/1/2018	Forest Service $1,000 cash and $4,000 in-kind, LFVC $1,000 in-kind	$8,000	$14,000
			Total	**$25,150**	**$11,000**	**$36,150**

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Start Date for funding under $100K - 45 Days from Board Approval; Start Date for funding over $100K - 90 Days from Board Approval.

(3) Round values up to the nearest hundred dollars.

• Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

• NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any futher payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.

• Additonally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

• Standard contracting proceedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.

TOILET TECH SOLUTIONS

TTS Quotation

USDA FS Nellie Creek Retrofit
Ashley Hom
Feb 20 2018
By Geoff Hill

ESTIMATED DETAILED BUDGET

Project overview: USDA FS has a disfunctional BMS toilet in the high country. Similarly to retrofit work conducted 2017 with USDA FS Grand Mesa in Ouray, TTS proposes to retrofit the building with the TTS BTW urine diversion seat and develop a TTS Decompose toilet.

Above Ground Scope (from TTS)

#	Item	Detail	Unit Sale Price	Extended Sale Pric
0	TTS Single Stall Wishbone John	Regular	$ 6,510	$ -
0	TTS Single Stall Wishbone John	ADA size	$ 8,500	$ -
0	TTS Double Stall Wishbone John	Regular	$ 10,080	$ -
0	Wishbone Recycled Lumber	Double Stall	$ 2,000	$ -
0	Wishbone High Snow Load Roof	Double Stall	$ 1,000	$ -
1	TTS BTW Conveyor Toilet Seats	Medium	$ 4,200	$ 4,200
1	Freight	2 boxes	$ 300	$ 300
1	Prep labor days (Seattle)	Retrofit	$ 750	$ 750
2	Travel Days	Retrofit	$ 500	$ 1,000
1	Prep labor days (CO)	Retrofit	$ 750	$ 750
0	Wishbone John building assembly	TTS	$ 300	$ -
1	Seat Installation Labor Days (onsite)	Retrofit	$ 1,500	$ 1,500
1	Travel expenses (4x4, flights, accoms et	Retrofit	$ 1,000	$ 1,000
1	Materials for retrofit BMS	Retrofit	$ 1,000	$ 1,000
			Total Sale	$ 10,500

Other's Scope (by contractor, or volunteer construction)

1	Remove tank and waste	estimate	$ 10,000	$ 10,000
1	Install urine drain field	estimate	$ 3,000	$ 3,000
1	Clean upper toilet stall (w bleach)	-	$ 300	$ 300
1	Develop signage			
			Estimate	$ 13,300

Site construction likely more economical

Notes

TTS to collaborate in design of urine drainfield according to local requirements and use estimates
TTS BTW Seat includes fiberglass riser (white)
Does not include tax or duty incurred
Duty should not be incurred, but regulations may change