

T-S IRWMA Project Submission Form

In order for a project to be eligible for grant funding the project proponent must be a member in good standing of the T-S IRWM Watershed Advisory Committee (WAC) and have adopted the T-S IRWM Plan.

Projects may be submitted by non-members with the sponsorship of a current member of the T-S IRWMA WAC, who is a member in good standing.

Any project submitted to the T-S IRWMA must entirely COMPLETE the Project Submission Form in order to be added to the T-S IRWM Plan. The T-S IRWMA Administrator may drop a project from consideration if the project's form is not complete.

Projects submitted to the T-S IRWMA must be physically located within the boundaries of the T-S IRWM Region.

Projects submitted to the T-S IRWM Authority are not a part of the T-S IRWM Plan or grant proposals until accepted by the Board of Directors of the Authority.

Project proponents are permitted to contact the media regarding their projects, but are PROHIBITED from commenting on the projects of other members.

For additional information or questions regarding the Project Submission Form please contact T-S IRWMA Administrator Lindsay Mattos at tsirwm@gmail.com.

For access to the T-S IRWM Plan visit: www.tstan-irwma.org

Email address *

lindsay@tcrd.org

Name of Project *

Groveland - Big Oak Flat Community Water Storage Project

Project Proponent *

Please specify whether your organization is a member or is being sponsored by a member in good standing.

Tuolumne County Resource Conservation District (TCRCD)

Project Contact *

Please provide the contact person for your project, their phone number and email.

Lindsay Mattos 2095599066 lindsay@tcrd.org

Revised Projects *

Is this project a revision or update of an existing project within the IRWM plan?

Yes

No

Project Location *

Include county(ies), city(ies), and latitude and longitude if applicable.

Tuolumne County Groveland - Big Oak Flat (unincorporated community) 37°50'45"N
120°12'28"W

Watershed(s) *

Please specify where project will be located.

Upper Tuolumne (HUC 18040009)

Updated Urban Water Management Plan (UWMP)

If you are an urban water supplier, do you have a compliant UWMP? Note: 2015 UWMPs are due to be submitted to DWR by July 1, 2016.

Yes

No

Labor Compliance Plan (Requirement for Prop 1 Funding)

Your organization has a Labor Compliance Plan or can develop a Labor Compliance Plan prior to implementation.

Yes

No

Contaminant Information

Does your project address any of the following contaminants?

Nitrates

Perchlorate

Arsenic

Selenium

Hexavalent Chromium

Mercury

Uranium

California Conservation Corps (CCC)

Have you consulted CCC in regards to your project? Or a certified community conservation corps?

Yes

No

Project Description *

A summary description including goals and objectives.

The Groveland - Oak Flat Community Water Storage Project is a residential raintank rebate program. This project will build community resources to encourage installation raintanks and provide education for other of low impact development (LID) best management practices (BMPs) into the future. Runoff volumes will be reduced from nearly at least 1,500 project sites benefitting Upper Tuolumne River watershed. The total number of homes in Groveland-Big Oak Flat is 3,048, of which 1,523 are occupied (<http://www.city-data.com/housing/houses-Groveland-Big-Oak-Flat-California.html>). If all occupied homes participate in this project, 1,500 residences will be provided with rain tanks ranging in capacity from 3,000 gallons to 4,999 gallons (1000 residences will be provided with 4,999-gallon tanks; 500 residences will be provided with 3,000-gallon tanks). This will provide capacity for 6,499,000 possible gallons (approximately 20 acre feet) of water capture and reuse potential for fire suppression and irrigation. During an average precipitation year and factoring in tank drawdown, approximately 11,080,000 to 17,920,000 gallons (33-55 acre feet) can be captured and reused. The higher limit (55 acre feet) of reuse is possible if captured water is used for groundwater recharge and flooding mitigation. Water storage may also be utilized to provide water for sanitation purposes, such as flushing toilets, or non-potable purposes.

The Groveland - Oak Flat Community Water Storage Project aims to accomplish the following multiple objectives relating to increases in water supply security and resiliency:

1. Create backup water suppression supply to protect single family residences and surrounding community from fire;
 2. Create a strategic network of supply for firefighters for preparedness for possible future fires (including supply map);
 3. Reduce resource demand on local water supply and groundwater reserves by providing an alternative freshwater supply;
 4. Utilizing captured rainwater not used for fire protection as part of groundwater well replenishment plan to maximize supply availability and avoid depletion of well water resources;
 5. Provide a sustainable water supply to irrigate landscape and help establish green strips for vegetated fuel breaks to reduce the impacts of fire;
- Educate community water conservation strategies; via hands on training to install rain tanks;
6. Provide water equity for all participants (i.e., prioritization of projects based on multi-dimensional criteria for greatest benefit)

The project will proceed via the following steps:

- 1- Interested homeowner signs up for workshop. At the end of the workshop the homeowner is provided with a certified voucher. Workshop will present upon all available resources, including rebate program for rainwater tanks (administered by TCRCD). .

2- Homeowner presents voucher to tank vendor.

3- Homeowner installs tank independently, but is provided with resources to attain expert guidance and CCC labor support.

4- Homeowner enrolls in self monitoring and sends picture for a small rebate in landowner resiliency sister program, if needed.

Project Physical Benefits *

Does your project address any of the following physical benefits? If so, please provide a brief description of the measurable accomplishments in the follow up questions.

Water Supply

Water Quality

Ecosystem Improvement

Energy Produced/Saved and Greenhouse Gases Avoided

Water Supply

Amount of water supply produced, saved, or recycled?

Capacity available for rainwater capture and reuse could be as much as 6,499,000 possible gallons (approximately 20 acre feet). Including tank drawdown (i.e., tanks will be filled and drawn down more than once within a year during an average rain year, water supply could be enhanced by 11,080,000 to 17,920,000 gallons (33-55 acre feet) if used for infiltration for groundwater recharge and flood mitigation. This alleviates use of local water supply and groundwater reserves for nonpotable uses.

Water Quality

Types (constituents) and amounts of water quality improvement provided, and the amount of water treated or improved.

Capturing rainwater for storage reduces what would have otherwise been stormwater runoff, thereby reducing pollutant and sediment loading associated with storm events.

Ecosystem Improvement

Types and amounts of environmental benefits provided, such as types of species and their numbers benefited, acreage of habitat or floodplain improved, restored or protected, amount of flow provided, or habitat units restored or protected. If a Habitat Evaluation Procedure has been performed, provide information from that analysis.

Energy and Greenhouse Gases

Amount of energy produced or saved, and amount of greenhouse gases that can be avoided.

Disadvantage Community (DAC)

Does the proposed project directly impact a disadvantage community? Is it within a Place, Tract or Block Group? or does your organization have a income survey to show DAC status? Please check all that apply. (For more information and map tool visit http://www.water.ca.gov/irwm/grants/resources_dac.cfm)

DAC Place

DAC Tract

DAC Block Group

Income Survey has been conducted.

Economically Distressed Areas (EDA)

Does the proposed project directly impact a Economically Distressed Area? Please check all that apply. (For more information visit <https://gis.water.ca.gov/app/edas/>)

- Rural County
- Unemployment - Place
- Unemployment - County
- Low Population Density - Block Group
- Low Population Density - Tract
- Low Population Density - Place
- Low Population Density - County
- Municipality - Block
- Municipality - Tract
- Municipality - Place

T-S IRWM Plan Objectives *

Please check each objective that the proposed project meets. Descriptions will be detailed in the "Purpose and Need" section that follows.

- Ensure water consumers have access to a clean and safe water supply within the region.
- Improve water supply infrastructure wherever it is deteriorating or causing water quality and system reliability issues, prioritizing DACs and populated areas. (e.g. fireflow, contamination, etc.).
- Reduce contamination in groundwater, surface water, water conveyance and storage systems.
- Improve wastewater infrastructure to meet discharge and disposal requirements and to reduce sanitary sewer overflows.
- Enhance watershed health and resiliency to increase sustainable water yield, ecosystem function and recreational opportunities.
- Improve the condition and ecosystem function and value of meadows, forests, and rangelands.
- Assist in the protection and recovery of native aquatic and other water dependent species, prioritizing sensitive special status, threatened and endangered, rare and unique, and culturally sensitive.
- Restore, preserve, and promote the regeneration of wetlands, springs, fens, vernal pools, and native riparian communities, and reduce invasive species.
- Reduce the risk of localized flooding, and improve stormwater management and retention.
- Improve energy efficiency of water/wastewater systems.
- Improve water supply efficiency and reliability of man-made conveyance systems.
- Increase water conservation strategies and water use efficiency (WUE) by both municipal (residential and commercial) and agricultural end users.
- Develop sufficient reliable and affordable water supplies and infrastructure to meet regional demands of existing and projected water supply needs including multi-year drought and climate change.
- Integrate land use and natural resource planning to support watershed protection actions

that restore, sustain and enhance watershed functions.

- Assess, plan, and prepare for natural disaster impacts that affect watersheds and water resources.
- Protect and preserve tribal watershed values and water use.

Program Preferences

Please check each preference your project meets. (Proposition 1, 2016 IRWM Program Guidelines)

- Leverage Funds – Give priority to projects that leverage private, federal, or local funding or produce the greatest public benefit.**
- Employ New and Innovative Technology or Practices – Give special consideration to projects that employ new or innovative technology or practices, including decision support tools that support the integration of multiple jurisdictions, including, but not limited to, water supply, flood control, land use, and sanitation.**
- Implement IRWM Plans with Greater Watershed Coverage – Give priority to projects in IRWM Plans that cover the greater portion of the watershed.**
- Multiple Benefits – Give special consideration to projects that achieve multiple benefits.**

Proposition 1 Eligible Project Type

Please check the description your project meets. Must check at least one to be eligible for IRWM Prop 1 funding. (Proposition 1, 2016 IRWM Program Guidelines)

- Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
- Water-use efficiency and water conservation
- Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects
- Regional water conveyance facilities that improve integration of separate water systems
- Watershed protection, restoration, and management projects, including projects that reduce the risk of wildfire or improve water supply reliability
- Conjunctive use of surface and groundwater storage facilities
- Water desalination projects
- Decision support tools to model regional water management strategies to account for climate change and other changes in regional demand and supply projections
- Improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution prevention, and management of urban and agricultural runoff
- Regional projects or programs as defined by the IRWM Planning Act (Water Code §10537)

Proposition 1 Eligible Project Type: Storm Water Resource Management

Please check the description your Storm Water project meets. (Proposition 1, 2016 IRWM Program Guidelines) *If your project is a Storm Water project for inclusion in the T-Stan Storm Water Project List please also complete Section 2 of this Form.

- Projects to reduce, manage, treat, or capture rainwater or stormwater
- Projects that provide multiple benefits such as water quality, water supply, flood control, or open space
- Decision support tools that evaluate the benefits and costs of multi-benefit stormwater projects
- Projects to implement a stormwater resource plan developed in accordance with Part 2.3 (commencing with Section 10560) of Division 6 including Water Code § 10562

Statewide Priorities: Make Conservation a California Way of Life

(For Statewide Priorities answer "yes" or "no" to whether your project meets any or part of the priority.) Building on current water conservation efforts and promoting the innovation of new systems for increased water conservation, Expand agricultural and urban water conservation and efficiency to exceed SB-X7-7 targets, Provide funding for conservation and efficiency, Increase water sector energy efficiency and greenhouse gas reduction capacity, Promote local urban conservation ordinances and programs.

- Yes
- No

Statewide Priorities: Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government

Ensure water security at the local level, where individual government efforts integrate into one combined regional commitment where the sum becomes greater than any single piece, Support and expand funding for Integrated Water Management planning and projects, Improve land use and water alignment, Provide assistance to disadvantaged communities, Encourage State focus on projects with multiple benefits, Increase the use of recycled water.

- Yes
- No

Statewide Priorities: Achieve the Co-Equal Goals for the Delta

This action is directed towards State and federal agencies; however, consideration will be afforded to eligible local or regional projects that also support achieving the co-equal goals providing a more reliable water supply for California and to protect, restore, and enhance the Delta ecosystem.

Yes

No

Statewide Priorities: Protect and Restore Important Ecosystems

Continue protecting and restoring the resiliency of our ecosystems to support fish and wildlife populations, improve water quality, and restore natural system functions, Restore key mountain meadow habitat, Manage headwaters for multiple benefits, Protect key habitat of the Salton Sea through local partnership, Restore coastal watersheds, Continue restoration efforts in the Lake Tahoe Basin, Continue restoration efforts in the Klamath Basin, Water for wetlands and waterfowl, Eliminate barriers to fish migration, Assess fish passage at large dams, Enhance water flows in stream systems statewide.

Yes

No

Statewide Priorities: Manage and Prepare for Dry Periods

Effectively manage water resources through all hydrologic conditions to reduce impacts of shortages and lessen costs of state response actions. Secure more reliable water supplies and consequently improve drought preparedness and make California's water system more resilient, Revise operations to respond to extreme conditions, Encourage healthy soils.

Yes

No

Statewide Priorities: Expand Water Storage Capacity and Improve Groundwater Management

Increase water storage for widespread public and environmental benefits, especially in increasingly dry years and better manage our groundwater to reduce overdraft, Provide essential data to enable Sustainable Groundwater Management, Support funding partnerships for storage projects, Improve Sustainable Groundwater Management, Support distributed groundwater storage, Increase statewide groundwater recharge, Accelerate clean-up of contaminated groundwater and prevent future contamination.

Yes

No

Statewide Priorities: Provide Safe Drinking Water for All Communities

Provide all Californians the right to safe, clean, affordable and accessible water adequate for human consumption, cooking, and sanitary purposes, Consolidate water quality programs, Provide funding assistance for vulnerable communities, Manage the supply status of community water systems. Additionally, as required by Water Code §10545, in areas that have nitrate, arsenic, perchlorate, or hexavalent chromium contamination, consideration will be given to grant proposals that included projects that help address the impacts caused by nitrate, arsenic, perchlorate, or hexavalent chromium contamination, including projects that provide safe drinking water to small disadvantaged communities.

Yes

No

Statewide Priorities: Increase Flood Protection

Collaboratively plan for integrated flood and water management systems, and implement flood projects that protect public safety, increase water supply reliability, conserve farmlands, and restore ecosystems, Improve access to emergency funds, Better coordinate flood response operations, Prioritize funding to reduce flood risk and improve flood response, Encourage flood projects that plan for climate change and achieve multiple benefits.

Yes

No

Statewide Priorities: Increase Operational and Regulatory Efficiency

This action is directed towards State and federal agencies; however, consideration will be afforded to eligible local or regional projects that also support increased operational of the State Water Project or Central Valley Project.

Yes

No

Purpose and Need *

A description of the purpose and need of the Proposal Project and how it addresses the adopted IRWM Plan's goals and objectives, Program Preferences and Statewide Priorities. Additionally, if the proposed project is for Operations and Maintenance describe why grant funds would be necessary to finance the project.

Tuolumne County is one of the most fire prone areas in California; building infrastructure for fire suppression is costly and resource intensive. Rainwater is a science-based, underutilized, sustainable water source for irrigation. Rainwater capture treatments are easy to install and maintain for ensured long term use. Reducing overall water consumption creates water security and reserves ground and surface water supplies for fire suppression without relying on water imports from outside of the community. Local onsite rainwater supplies will reduce the need for outside assistance as water can be adapted to provide water for flushing toilets and other non-potable uses. Initiating successful rainwater collection programs in the region can provide demonstrative examples of resilient approaches to recover and reduce future impacts of fire and drought.

Through this project, the Community of Groveland and Big Oak Flat will be supplied with additional onsite water, thereby creating a disaster resilient water supply for emergency fire suppression for the individual household as well as surrounding neighborhoods. Participants of the project will be advised how to irrigate to grow green strips to further protect their property. The placement of the tank will optimize high visibility to demonstrate and remind the community on the importance of water conservation.

Integrated Elements of Project *

A description of synergies or linkages between projects that result in added value or require coordinated implementation or operation. Integration can be with current projects that are being implemented, proposed projects, existing projects, etc.

The Groveland - Big Oak Flat Community Water Storage Project will leverage TCRCs existing landowner resiliency program (watertoolkit.org) and also builds upon past efforts of the Watershed Outreach, Stewardship, and Water Efficiency Incentives IRWMP education and incentive project (Tuolumne River Trust #22)

There have been other programs in Tuolumne County for residents that had dry and/or contaminated wells relating to distressed groundwater supplies during the drought. In 2016, more than 340 homes were without reliable access to drinking water due hundreds of wells and about a dozen springs that had gone dry throughout the county. Funding administered through the County helped some homes connect to Tuolumne Utilities District (TUD) pipelines, while others received 2,500 gallon temporary water tanks, where water was delivered to the tanks as often as weekly. Although this program was reactionary to the drought crisis, lessons learned and forward thinking have helped incentivize landowners to act prescriptively and prepare for a variable climate future.

Existing Data and Studies *

A brief discussion of the data that have been collected and studies that have been performed that support the project(s) site location, feasibility, and technical methods.

The proposed project would compliment an existing IRWM program which has installation data.

Local Planning Documents *

Cite the local planning documents that support the proposed project.

TS IRWM Plan

Readiness to Proceed: CEQA/NEPA/Permits *

Status of California Environmental Quality Act (CEQA)? Status of National Environmental Policy Act (NEPA)? Status of local, state, and federal permitting requirements?

Although this is a planning project, some project elements could trigger CEQA, but could be offered an exemption. At this point, no environmental assurances/ approvals have been secured as this project is in the planning phase.

Readiness to Proceed: Capacity *

Capacity of proponent to carry out the proposed project? Status of necessary authority and approvals to implement the proposed project?

TCRCD has offered rebates for installed rainwater catchment systems and capacity to continue to carry out a successful rebate program.

Readiness to Proceed: Feasibility/Design *

Feasibility analysis for the proposed project? Status of necessary engineering, designs, blueprints, and work plans?

This is a rebate program that will be initiated in the communities of Groveland and Big Oak flat. Once interested, site-specific details will be developed. At this point, no site-specific plans exist.

Cost and Schedule: Project Costs *

Please provide all anticipated project cost.

Item:

Rain tanks (1,000 tanks @ 4,999 gal for up to 1000 residences @ \$1,885 per tank) = \$1,885,000

20% match from tank company = \$377,000 (include in match below)

Rain tanks (500 tanks @ 3,000 gal for up to 500 residences @ 1,100 per tank) = \$330,000

20 % match from tank company = \$66,000 (include in match below)

Outreach user trainings support = \$25,000

Education/ training programs = \$25,000

Reporting = \$7,000

Total = \$2,272,000

Cost and Schedule: Matching Funds *

Potential Sources of Project Funding? (Including internal funding.) Potential Sources of Local Match? (Local match required unless project qualifies for a Disadvantaged Communities Waiver.)

Rain Tank costs exceeding what grant would cover (participant match) = \$725,000

20% match from tank company = \$377,000 (include in match below)

20 % match from tank company = \$66,000 (include in match below)

Gutter/Conveyance Plumbing (participant match) = \$7,200,000

Education/ training programs (watershed progressive match)= \$2,000

Reporting (participant match) = \$4,000

Total =8,374,000

Additionally, project could qualify for a matching funds waiver.

Cost and Schedule: Schedule *

Please include a start and completion date for each project stage. Project stages include: Earliest Start Date, Conceptual, Planning, Environmental, Permitting, Design,Construction/Implementation

Earliest start date = as soon as funding is secured, TBD.

Education and outreach for year 1, can be parallel with planning (years 1-2)

Implementation (years 2-3)

Cost and Schedule: Timing and Phasing

If the proposed project(s) is part of a multi-phased project complex, provide a description that demonstrates that the proposal can operate on a standalone basis, i.e., can be fully functional without implementation of the subsequent projects.

Cost and Schedule: Completed Work *

A description of the work that has been completed or is expected to be completed prior to the grant award date. For example, if CEQA/NEPA and other environmental compliance efforts have been completed discuss the environmental determination made by the lead agency and the documents that were filed.

The planning process for this project has been initiated, and the rain tank rebate component groundwork has been started with TCRCs existing rebate program. It is possible that some progress will be made toward moving this process along, but without additional funding work is less likely to move forward.

Storm Water Project *

Is the project being submitted a Storm Water Project? If yes please answer the questions in Section 2 of the Project Submission Form.

Yes

No

Storm Water Project Submission

This additional section of the T-S IRWMA Project Submission Form is for Storm Water Projects. If your project is NOT a Storm Water Project you do not need to complete this section of the Form.

Area Effected by Project

Please provide a description of the Size of Area Directly Effected and the Size of Area Indirectly Effected (Larger area indirectly affected downstream or down slope.) Please provide measurements in sq. ft.

Groveland - Oak flat covers approximately 8.085e+8 sq ft (29 sq miles). Further mapping and analysis is required to identify area affected by the project directly tied with the 1,523 occupied residences.

Impact of Project on Region

Number of People Effected by Project?

The population of Groveland - Oak Flat is approximately 3,388, but again additional analysis is required to identify the percentage of the population directly impacted by the project based on the population residing in the occupied homes.

Impact of Project on Region: Health and Safety

Please provide a description and the value (\$) of health, repair or emergency response events alleviated by this project.

Reduction of nuisance flows in many ponding areas which lead to auto and pedestrian accidents,. In March 2018, a 6" stormevent flooded many of the school building as well as created overflowing drainages causing emergency situations at downtown and residential areas. In addition, installation of tanks that could be used for fire suppression will provide community preparedness.

Impact of Project on Region: Flooding

Please describe how the project alleviates flooding impacts (Value to repair multiplied by the number of occurrences of flooding events.)

Reduction of nuisance flows in many ponding areas.

Water Quality & Quantity Impacts

Impact to Surface Water Quality (Targeted percent reductions of pathogen, sediment, nutrient or toxin loading in surface waters.) Please provide percent reduction.

Stormwater that would otherwise runoff and be laden with sediment and nutrients/ pollutants will be captured as a result of this project. More precise water quality quantifications will be made on a site-specific basis.

Water Quality & Quantity Impacts

Potable Water Savings (Quantity of potable water supply offset by project proposal.) Please provide annual gallons saved.

This project will provide capacity for 4,569,000 to 7,613,477 possible gallons (approximately 14 - 23 acre feet) of water capture and reuse potential, creating a savings in potable water that is currently used for non-potable uses.

Water Quality & Quantity Impacts

Infiltration and Groundwater Recharge Potential (Quantity expected to be infiltration to subsurface or groundwater potentials.) Please provide gallons to be infiltrated or recharged.

The possible infiltration to subsurface/ groundwater will be calculated during the planning process on a site-specific basis as this will depend on implementation of other stormwater bmp treatments (i.e., swales, vegetated strips, irrigation use efficiency upgrades).

Water Quality & Quantity Impacts

Impact to Impervious Surfaces (Area of impervious surface removal.) Please provide sq. ft. of impact.

This can be quantified on a site-specific basis once stormwater treatments are identified.

Environmental Impacts

Top Soil Loss Reduction (Quantity annually retained on native slopes.) Please provide cu. yds. of reduction.

Reduction of soil loss on slopes leading to impacted areas surrounding the built environment will be recommended for stabilization and quantified.

Environmental Impacts

Habitat Generation or Restoration (Area of project site that will generate or restore native habitat.) Please provide sq. ft. of habitat.

Most of the treatments designed will include habitat generation/restoration through natural infrastructure techniques. This will be quantified on a site-by-site basis.

Environmental Impacts

Ambient Temperature Mitigation (Reduction of heat island effect in targeted temperature decrease.) Please provide temperature.

Heat island effects will be mitigated through addition of natural infrastructure stormwater treatments at 1500 residences. Additionally, energy consumption will be offset for homeowners with cumulative reduced consumptive use of centralized distribution systems.

Effectiveness of Project

Project Integration (Number of integrated benefits of implementation of project proposal.)

At least 10 integrated benefits will be realized if this project is implemented (as described in prior responses.)

Effectiveness of Project

Resiliency of Project (Number of adaptive strategies in project proposal that provide durability and effectiveness for catastrophic events.)

The rebate program has an overarching goal of providing increased resiliency to possible catastrophic events associated with anticipated climate variability. By providing secure and localized onsite water, participating residents will become more prepared to uncertain weather events in the future.

Effectiveness of Project

Education/Demonstrative Potential (Public outreached annually.)

Local residents will be educated on water conservation and storm water BMPs.

Effectiveness of Project

Leverage of Funding (dollars leveraged)

Due to the rebate nature of this project, project funding will be greatly leveraged by participating residents.

Effectiveness of Project

Monitoring and Evaluation Techniques (Review committee score of study design and length of monitoring techniques.)

Monitoring components will include the following:

Pictures of their installed rainwater catchment system

All available receipts pertaining to the project

A short written description of their rainwater catchment system including, system capacity, materials used, and time spent to complete the project.

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