Lahontan Basins SWRP

Storm Water Resources Plan

Technical Memorandum

Identification and Prioritization of Projects

November 2017

HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT

DEPARTMENT OF WATER RESOURCES
STATE OF CALIFORNIA

DYER ENGINEERING CONSULTANTS

Technical Memorandum

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1.0 INTRODUCTION

One of the main purposes of the Storm Water Resource Plan (SWRP) is to begin the process of developing storm water and dry weather runoff capture projects and to make these projects eligible to receive grant funding from state agencies. SB 985, which amended Water Code section 10560, subdivision (c)(1), requires that to obtain grant funds from any state bond act, such projects must be included in a SWRP. This requirement was passed into law and became effective in January 2014.

The SWRP Guidelines require a list of prioritized projects, ratified by the Technical Advisory Committee (TAC), to be included with the Plan. The projects must be ranked based on their ability to deliver Main and Additional Benefits to the Plan area. The guidelines do not delineate a methodology to be used for ranking the projects, but state that a system of quantitative, score-able metrics must be used to evaluate the proposed projects.

The intent of this **Memo** is to describe how the Plan will characterize and rank projects, develop a list of prioritized projects based on the ranking, and include the list within the Plan. The Plan will be reviewed and approved by the TAC. Stakeholders contributed a total of 8 project proposals. Three of the projects were of a similar nature and were thus incorporated into one project. This **Memo** explains the methodology used to characterize, rank, and prioritize the projects and presents the draft prioritized evaluation tables based on the scoring metrics, but without the actual evaluation data, which will be completed as part of the SWRP document.

2.0 SUBMITTAL FORM

2.1 Purpose and Use

Appendix A is comprised of the Proposed Projects on Project Submittal Forms (PSFs) submitted by stakeholders for inclusion in the Plan. The PSF is not a grant application, but serves as a means of communicating conceptual projects that meet the Plan's resource goals. The PSF template was developed following guidance stated in the guidelines, conforming to the SWRP Guidelines' checklist on pages A-1 through A-10. The PSFs were set up to be readily score-able to allow comparing, scoring, ranking, and prioritizing projects included within the Plan.

SWRP Guidelines state that projects submitted for inclusion in the Plan must demonstrate a minimum of two or more Main Benefits and as many Additional Benefits as possible. Main and Additional Benefits are described in Section 3, below, and are presented in Table 3 on pages 22-23 of the SWRP Guidelines.

The PSF template was reviewed and commented on by TAC participants during the first public meeting and subsequently revised to reflect their input. Representatives from the TAC agreed to the revised PSF and subsequently submitted 5 projects for inclusion in the Plan.

2.2 Project List Unranked-Side by Side Comparison of Projects

Table 1 presents a summary of the proposed projects submitted in the PSFs to enable side-by-side comparison of how proposed projects deliver Main and Additional benefits. It allows the reader to visualize the geographic area covered by all submitted projects, identify areas of overlap, and compare how resource goals are addressed by the TAC.

Table 1 – Project Summary List - Unranked

Project Summary (Draft)					
Project Name	Implementing Agency	Project Budget	Project Funding Match with Sources from Non-State of California Matching	Project Location Description	Project Description
Old Channel Improvement Project	Honey Lake Valley Resource Conservation District	$2,000,000	We hope to obtain cash matching funds from Walmart, Baxter Auto Parts and other vendors who contribute to the pollution of the project area. The Honey Lake Valley RCD will contribute in-kind labor costs as additional project match.	From head gate on Susan River all along Old Johnstonville Rd to Travis Lane. See maps of Susan River Decree #4573. The area served by the Old Channel is just outside the city limits of Susanville, in a zoned agricultural area.	Flood control of upper River system, is limited and badly needed locally. Flooding is often a problem along the Susan River. This project would allow Old Channel to safely handle a portion of the flood water, diverting it into channels other than the Susan River as needed, to lighten the loads placed on the Johnstonville Dam and AB Canal. Old Channel rejoins the Susan River below Johnstonville Dam. High water loss, during irrigation season, due to willows and sandy soil areas. Inflow of pollutants harmful to crops, from storm drains, drop inlets of City roads, old pollution plumes from petroleum plants. Continued pollution from bordering commercial establishments. Pollution run-off from soil where log deck used to be near ABC mini storage. Continued encroachment of City projects, will further limit access to current open ditches for maintenance and they will be more of an attractive nuisance to children. Piping part of the canal will eliminate an attractive nuisance and create a safe flood control channel, capable of a reliable flow. In addition, loss due to direct contact with soil will be eliminated. Concreting the canal where the piping ends, will eliminate run-off pollution in those areas. Direct contact with soil through the commercial area, will eliminate much of the pollution issues. The project will greatly reduce loss and pollution intrusion, providing more quality water for its intended purpose.
North Gate and Parking Areas Storm Water Capture Reuse Project	County of Lassesn	TBD	To be determined (TBD)	This project is located just north of the County of Lassen Fairgrounds between Paul Bunyan Road and Connecticut Court. East of the Connecticut Road Cul de Sac there is an old, paved parking lot that lies between two gravel open areas.	Infrastructure improvements to unpaved roads, unpaved parking areas and roofs to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All activities to occur on-site. The North Gate access road and existing parking areas are unsurfaced (i.e. dirt or pavement grindings) and existing roofs drain without storm water best management practices/low impact development infrastructure.
Lassen County Fair Parking Area Storm Water Capture and Reuse Project	County of Lassen	TBD	TBD	This project is located in the Lassen County Fairgrounds, 195 Russel Avenue, City of Susanville, Lassen County, California. This projects covers the parking lot to the south of Diamiond Mountain Speedway and an open gravel area to the east of the speedeway.	Infrastructure improvements to capture storm water from the main Lassen County Fair Parking Area (Jensen Hall) and roofs to reduce flood risk and provide for storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All activities to occur on-site.
Janesville Park and Doyle Park Parking Areas Storm Water Project	County of Lassen	TBD	TBD	Janesville Park: 710-095 McKinley Ave., Janesville, CA 96114 Doyle Park: 433-895 Doyle Loop Road, Doyle, CA 96109	Infrastructure improvements to unpaved roads and unpaved parking areas to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. Both of these sites received substantial storm damage from the flooding events in February 2017. Work has been completed to restore these areas to a pre-storm condition. The proposed work would include infrastructure improvements. Janesville Park: The main roadway and parking lot leading to the Janesville Park is paved however the interior roadways and parking areas for the ballfield and horse areas are unsurfaced (i.e. dirt or pavement grindings) without storm water best management practices/low impact development infrastructure. Doyle Park: Roadway and parking areas are unsurfaced (i.e. dirt) without storm water best management practices/low impact development infrastructure.
Susanville, Standish and Doyle Road Shops Storm Water Project	County of Lassen	TBD	TBD	Susanville Road Shop: 801 Hospital Lane, Susanville, CA 96130 Standish Road Shop: Hwy. 395 & Church Street, Standish, CA 96128 Doyle Road Shop: 434-685 Doyle Drive, Doyle, CA 96109	Infrastructure improvements to unpaved road shop yard and parking areas to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. The proposed work would include infrastructure improvements to unsurfaced (i.e. dirt or pavement grindings) without storm water best management practices/low impact development infrastructure.
Susanville Ranch Park- Paiute Lane Storm Water Project	County of Lassen	$687,500	TBD	Susanville Ranch Park -Paiute Lane, Susanville, CA 961	Infrastructure improvements to unpaved road and upper equestrian parking lot to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. This site received substantial storm damage from the flooding events in January and February 2017. Work has been completed to restore these areas to a pre-storm condition. The proposed work would include infrastructure improvements.

3.0 PROJECT SCORING-DESCRIPTION OF SCORING METHODOLOGY

To demonstrate the Plan's ability to implement storm water and dry weather capture projects, the submitted projects must satisfy specific water management objectives and be able to deliver multiple benefits. Each project must identify at least two Main Benefits and as many Additional Benefits as possible.

The quantification of benefits and analysis of proposed projects will be evaluated using metrics for the five Main Benefit areas: Water Quality, Water Supply, Flood Management, Environmental, and Community. A simple scoring methodology was developed for scoring and ranking projects.

3.1 Main and Additional Benefits Scoring

The following metrics will be considered to evaluate how well proposed projects deliver the Main and Additional benefits shown on pages 22-23 of the SWRP Guidelines:

3.1.1 Effects of Proposed Projects on Water Quality

How do projects comply with or are consistent with existing NPDES permits?

- Description of watershed-based outcomes using modeling, calculations, pollutant mass balances, water volumes balances, or other methods of analysis
- Description of how projects will contribute to the preservation, restoration, or enhancement of watershed processes
- Include projects in a summary matrix/table with scoring metrics
- WQ metric: Pollutant load reduction (lbs/day, mg/L, bacteria count per ml, etc.)
- WQ metric: Volume treated (mgd, AF/yr)

3.1.2 Effects of Proposed Projects on Local Water Supplies

- How do proposed projects capture, store, and use storm water and dry weather runoff to recharge or replace groundwater or offset water imports from the Delta?
- Include projects in a summary matrix/table with scoring metrics
- WS metric: Groundwater volume recharged or replaced or runoff volume captured (mgd, AF/yr)
- WS metric: Augmentation/replacement of water supply or reduced dependence on imported water (mgd, AF/yr)
- WS metric: Cost of water supply augmentation ($/AF/yr)

3.1.3 Effects of Proposed Project on Flood Management

- Describe how project will reduce flood risk through reduction in stage, flood flows
- Describe how flood water will be captured to maximize and/or augment water supply
- Include projects in a summary matrix/table with scoring metrics
- FM metric: Reduction in flood risk (reduced flow in cfs, reduced stage in feet, reduced volume in AF)
- FM metric: Reduction in sanitary sewer overflows (flow in cfs or volume in cubic feet or AF)

3.1.4 Effect of Proposed Project on Environmental and Community

This analysis includes the benefits of creation and restoration of habitat, open space, parks, and recreational opportunities in disadvantaged communities.

Appendix A: Project Scoring Matrix (blank) shows proposed projects would receive a score of either a 4 or 5 in each Main Benefit category. If a Main Benefit is well-quantified and supported by numerical results of calculations or modeling, the project received a score of 5. For less well-quantified Main Benefits, a score of 4 was given, which indicated that the Main Benefit would be achieved in concept, but the actual quantification of the benefit is not well-defined. A proposed project would need a minimum score of 8 to be considered viable for inclusion in the Plan, as the guidelines state that at least two Main Benefits must be achieved for a project to be eligible for inclusion in the Plan for consideration of future grant funding. All the proposed projects contained at least two Main Benefits.

Appendix A: Project Scoring Matrix also shows the full spectrum of Additional Benefits possible for proposed projects. Projects received scores in the Additional Benefits column of 3, 2, or 1, depending on how well the Additional Benefits were quantified. Well-quantified Additional Benefits with objective numerical results supported by calculation or modeling received a score of 3. Additional Benefits achieved, but with less well-quantified metrics or conceptually improved metrics received a score of 2. Additional Benefits achieved by good concepts but needing more information, received a score of 1.

A Project Scoring Matrix will be filled out for the proposed projects submitted to the Plan. The combined scores of the proposed projects are to be summarized in Table **2** and ranked by combined Main/Additional Benefit and Project Readiness scores, which satisfies the guidelines' requirement for presenting a prioritized list of proposed projects. The Project Readiness is described in the next section.

Table 2 Project Scoring Matrix

Project Ranking Matrix (Draft)															
PROJECT		Old Channel Improvements Project		North Gate and Parking Areas Storm Water Capture Reuse Project		Lassen County Fair Parking Area Storm Water Capture and Reuse Project		Janesville Park and Doyle Road Shops Storm Water Project		Susanville, Standish and Doyle Road Shops Storm Water Project		Susanville Ranch Park Paiute Lane Storm Water Project	
MAIN AND ADDITIONAL BENEFITS CATEGORIES		MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL
WATER QUALITY													
MAIN	Increased filtration and/or treatment of runoff												
ADDITIONAL	Nonpoint source pollution control												
	Reestablished natural water drainage and treatment												
WATER SUPPLY													
MAIN	Water supply reliability												
	Conjunctive use												
ADDITIONAL	Water conservation												
FLOOD MANAGEMENT													
MAIN	Decreased flood risk by reducing runoff rate and/or volume												
ADDITIONAL	Reduced sanitary sewer overflows												
ENVIRONMENTAL													
MAIN	Environmental and habitat protection and improvement, including; wetland enhancement/creation, riparian enhancement; and/or instream flow												
	Increased urban green space												
ADDITIONAL	Reduced energy use, greenhouse gas emissions, or provides a carbon sink												
	Reestablishment of the natural hydrograph												
	Water temperature improvements												
COMMUNITY													
MAIN	Employment opportunities provided												
	Public education												
ADDITIONAL	Community involvement												
	Enhance and/or create recreational and public use areas												
Total Main Benefits													
Total Additional Benefits													
Total Main + Additional Benefits													

0 = Criteria does not apply
1 = Criteria may apply/need more information
2 = Additional benefit criteria partially applies
3 = Additional benefit criteria fully applies
4 = Main benefit criteria partially applies
5 = Main benefit criteria fully applies

3.2 Project Readiness Scoring

Practical factors were also considered in developing the scoring methodology for the proposed projects. The Appendix A: Project Scoring Matrix contains a Project Readiness Checklist, and proposed projects were evaluated against five Project Readiness criteria:

1. Is the Project ready to implement (Yes=1), (No=0)?
2. Is the Project cost well defined (1) or just an estimate (0)?
3. Is the land currently owned by a public agency (1) or does it need to be acquired (0)?
4. Is the environmental permitting process complete (1) or not yet started (0)?
5. Does the agency have the funds available for the 50 percent local funding match (Yes=1), (No=0)?

Each Project Readiness criterion was scored with either 1 or 0 for a "yes" or "no" response. Partial credit (0.5) was given for each partially completed Project Readiness criterion. The Project Readiness checklist was useful in separating conceptual projects from those that were further along in the planning process or more shovel-ready.

A Project Scoring Matrix and the Readiness Matrix will be filled out for each of the proposed projects submitted to the Plan. The combined scores of the proposed projects are summarized in Tables **2** and 3. Note that the Projects listed horizontally in both Tables 2 and 3 are the same.

3.3 Prioritized List of Projects

Table 4 consists of the Prioritized List of 6 proposed projects (without the actual evaluation data), which were received in June 2016 for inclusion in the Plan. They will be ranked by their ability to deliver Main and Additional benefits as well as their Project Readiness for construction. The Plan can be updated periodically with submittals of future projects or revisions to existing projects, correlated to future rounds of implementation grant funding opportunities.

The project title North Gate and Parking Areas at the Lassen County Fairgrounds and Lassen County Fair Parking Area, located south of Diamond Mountain Speedway, have been combined into one project. The projects are located near each other and the implementing agency is the same. The Prioritized List (without the actual evaluation data) on Table 4 includes only 5 projects.

Table 3 Project Readiness Scoring

PROJECT READINESS CHECKLIST						
Is the project ready to be implemented? (Yes=1), (No=0)						
Land ownership is in order? (Yes=1), (No=0)						
Is the environmental permitting process complete? (Yes=1), (No=0)						
Prior project work completed (e.g. plans)? (Yes=1), (No=0)						
Does the agency have a matching funds source? (Yes=1),(No=0)						
PROJECT READINESS SCORE						

Note:
Zero also implies the information is currently unknown.

Table 4 Prioritized List of Projects by Rankings

Project Summary (Draft)							
Project Name	Implementing Agency	Project Budget	Project Funding Match with Sources from Non-State of California Matching Funds	Project Location Description	Project Description	Scoring Benefits	Scoring Readiness
Susanville, Standish and Doyle Road Shops Storm Water Project	County of Lassen	TBD	TBD	Susanville Road Shop: 801 Hospital Lane, Susanville, CA 96130 Standish Road Shop: Hwy. 395 & Church Street, Standish, CA 96128 Doyle Road Shop: 434-685 Doyle Drive, Doyle, CA 96109	Infrastructure improvements to unpaved road shop yard and parking areas to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. The proposed work would include infrastructure improvements to unsurfaced (i.e. dirt or pavement grindings) without storm water best management practices/low impact development infrastructure.		
Old Channel Improvement Project	Honey Lake Valley Resource Conservation District	$2,000,000	We hope to obtain cash matching funds from Walmart, Baxter Auto Parts and other vendors who contribute to the pollution of the project area. The Honey Lake Valley RCD will contribute in-kind labor costs as additional project match.	From head gate on Susan River all along Old Johnstonville Rd to Travis Lane. See maps of Susan River Decree #4573. The area served by the Old Channel is just outside the city limits of Susanville, in a zoned agricultural area.	Flood control of upper River system, is limited and badly needed locally. Flooding is often a problem along the Susan River. This project would allow Old Channel to safely handle a portion of the flood water, diverting it into channels other than the Susan River as needed, to lighten the loads placed on the Johnstonville Dam and AB Canal. Old Channel rejoins the Susan River below Johnstonville Dam. High water loss, during irrigation season, due to willows and sandy soil areas. Inflow of pollutants harmful to crops, from storm drains, drop inlets of City roads, old pollution plumes from petroleum plants. Continued pollution from bordering commercial establishments. Pollution run-off from soil where log deck used to be near ABC mini storage. Continued encroachment of City projects, will further limit access to current open ditches for maintenance and they will be more of an attractive nuisance to children. Piping part of the canal will eliminate an attractive nuisance and create a safe flood control channel, capable of a reliable flow. In addition, loss due to direct contact with soil will be eliminated. Concreting the canal where the piping ends, will eliminate run-off pollution in those areas. Direct contact with soil through the commercial area, will eliminate much of the pollution issues. The project will greatly reduce loss and pollution intrusion, providing more quality water for its intended purpose.		
North Gate and Parking Areas, & Fair Parking Area, Storm Water Capture Reuse Project	County of Lassen	TBD	To be determined (TBD)	The project is located north of the Fairgrounds between Paul Bunyan Road and Connecticut Court. East of Connecticut Road Cul-de-Sac there is an old, paved parking lot that lies between two gravelled open areas. The other site is the Fair Parking project located at 195 Russel Avenue. The parking lot is south of Diamond Mountain Speedway and there is an open gravel area to the east of the speedway.	Infrastructure improvements to unpaved roads, unpaved parking areas and roofs to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All activities to occur on-site. The North Gate access road and existing parking areas are unsurfaced (i.e. dirt or pavement grindings) and existing roofs drain without storm water best management practices/low impact development infrastructure. Infrastructure improvements to cature storm water from the main Fair Parking Area (Jensen Hall) and roofs to reduce risk and provide for storm water infiltration, litering, storing, evaporation, treatment, retention and resuse.		
Janesville Park and Doyle Park Parking Areas Storm Water Project	County of Lassen	TBD	TBD	Janesville Park: 710-095 McKinley Ave., Janesville, CA 96114 Doyle Park: 433-895 Doyle Loop Road, Doyle, CA 96109	Infrastructure improvements to unpaved roads and unpaved parking areas to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. Both of these sites received substantial storm damage from the flooding events in February 2017. Work has been completed to restore these areas to a pre-storm condition. The proposed work would include infrastructure improvements. Janesville Park: The main roadway and parking lot leading to the Janesville Park is paved however the interior roadways and parking areas for the ballfield and horse areas are unsurfaced (i.e. dirt or pavement grindings) without storm water best management practices/low impact development infrastructure. Doyle Park: Roadway and parking areas are unsurfaced (i.e. dirt) without storm water best management practices/low impact development infrastructure.		
Susanville Ranch Park- Paiute Lane Storm Water Project	County of Lassen	$687,500	TBD	Susanville Ranch Park -Paiute Lane, Susanville, CA 96130	Infrastructure improvements to unpaved road and upper equestrian parking lot to treat and capture storm water to provide storm water infiltration, filtering, storing, evaporation, treatment, retention and reuse. All work is to be completed on site. This site received substantial storm damage from the flooding events in January and February 2017. Work has been completed to restore these areas to a pre-storm condition. The proposed work would include infrastructure improvements.		

4.0 PROCESS OF SUBMITTING NEW OR MODIFYING EXISTING PROJECT PROPOSALS

One of the goals of the Plan is to make it a living document capable of adapting to changing watershed conditions and be receptive to submittal of new projects and modifications to existing projects. At the time of publication, there were 8 proposed projects submitted, three of which were combined with other projects. LRWQB encourages additional projects be submitted.

There are many districts within the Lahontan Regional Water Management Groups that did not submit proposals due to budget or time constraints. This Plan is designed to accommodate and not discourage later proposal submissions. This section describes the process for submitting new project proposals or revising existing project proposals.

4.1 New Project Proposals

If an agency or stakeholder wishes to submit a new project for consideration, the first step is to fill out a PSF. A blank PSF template is included in Appendix C: New Project Submittal Form template. Fill out the form with as much detail as possible. Include metrics supported by calculation, models, or measurements, such as those included in Tables 2 - 3 and Section 4.0, Process of Submitting New or Modifying Existing Project Proposals Quantify the Main Benefits and Additional Benefits provided by the new project proposal and show how the new project provides Main Benefits and Additional Benefits. A project proposal must include at least two Main Benefits and as many Additional Benefits as possible. The proposal should then be submitted to the TAC most closely associated with the project location.

4.2 Modifications or Revisions to Existing Project Proposals

If an agency or stakeholder wishes to submit modifications or revisions to an existing project, which has already been adopted into the Lahontan SWRP, the stakeholder would fill out a PSF and attach the previously submitted PSF to the new form. A blank PSF template is included in Appendix C: New Project Submittal Form template. Fill out the new form with as much detail as possible. Include metrics supported by calculation, models, or measurements, from the list included in Tables 2 - 3. Quantify the Main Benefits and Additional Benefits provided by the revised project proposal and show how the revised project improves or expands upon the Main Benefits and Additional Benefits of the previously adopted project. The revised proposal should then be submitted to the same TAC associated with the project location as on the originally submitted PSF.

APPENDIX A

PROJECT SCORING MATRIX

Project Ranking Matrix (Draft)

PROJECT		Project:		Project:		Project:		Project:		Project:		Project:	
MAIN AND ADDITIONAL BENEFITS CATEGORIES		MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL	MAIN	ADDITIONAL
WATER QUALITY													
MAIN	Increased filtration and/or treatment of runoff												
ADDITIONAL	Nonpoint source pollution control												
	Reestablished natural water drainage and treatment												
WATER SUPPLY													
MAIN	Water supply reliability												
	Conjunctive use												
ADDITIONAL	Water conservation												
FLOOD MANAGEMENT													
MAIN	Decreased flood risk by reducing runoff rate and/or volume												
ADDITIONAL	Reduced sanitary sewer overflows												
ENVIRONMENTAL													
MAIN	Environmental and habitat protection and improvement, including; wetland enhancement/creation, riparian enhancement; and/or instream flow												
	Increased urban green space												
ADDITIONAL	Reduced energy use, greenhouse gas emissions, or provides a carbon sink												
	Reestablishment of the natural hydrograph												
	Water temperature improvements												
COMMUNITY													
MAIN	Employment opportunities provided												
	Public education												
ADDITIONAL	Community involvement												
	Enhance and/or create recreational and public use areas												
Total Main Benefits													
Total Additional Benefits													
Total Main + Additional Benefits													

0 = Criteria does not apply
1 = Criteria may apply/need more information
2 = Additional benefit criteria partially applies
3 = Additional benefit criteria fully applies
4 = Main benefit criteria partially applies
5 = Main benefit criteria fully applies

PROJECT READINESS CHECKLIST						
Is the project ready to be implemented? (Yes=1), (No=0)						
Land ownership is in order? (Yes=1), (No=0)						
Is the environmental permitting process complete? (Yes=1), (No=0)						
Prior project work completed (e.g. plans)? (Yes=1), (No=0)						
Does the agency have a matching funds source? (Yes=1),(No=0)						
PROJECT READINESS SCORE						

Note:
Zero also implies the information is currently unknown.

APPENDIX B

NEW PROJECT SUBMITTAL FORM TEMPLATE

LAHONTAN BASINS
Storm Water Resources Plan (SWRP)
Project Application Form

The Lahontan Basins Storm Water Resources Plan (SWRP) region is accepting projects to be considered for future funding and implementation. To have projects considered for inclusion, the applicant must read and complete this Project Solicitation Form. If the applicant has multiple projects, each individual project will need a separate form. Information on this form will be used in the ranking process for project prioritization.

Completed Project Solicitation Forms should be sent via email to Mr. Ian Sims at isims@honeylakevalleyrcd.us. If you have any questions, please contact Mr. Ian Sims or Mr. Jeff Weagel at jweagel@dyerengineering.com or 775-852-1440. Assistance is available for the preparation of this application.

The California Storm Water Grant Program is a part of the 2014 Proposition 1 that authorized $7.545 billion in general obligation bonds for water projects. Prop 1 (Section 79747) provides $200 million in grant funds for multi-benefit storm water management projects.

Water Code section 79747 identifies funds available for multi-benefit storm water management projects which may include, but shall not be limited to: green infrastructure, rainwater and storm water capture projects and storm water treatment facilities. Storm Water Resource Plans, or functionally equivalent plan(s), are required to obtain grant funds for storm water and dry weather capture projects. Additional information is available online at:

<http://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/prop1/>

Your Project must be “Storm Water” or “Dry Weather Runoff” related to be eligible for funding. Storm Water is defined in the SWRP Guidelines as: “temporary surface water runoff and drainage generated by immediately preceding storms”. Dry Weather Runoff is defined as: “surface runoff flow produced by non-storm water resulting from irrigation and other residential, commercial, and industrial activities”.

Applicant must complete the following check list and form;

Part 1 – Project Eligibility

Table 1 – Project Eligibility Checklist

1. Is the applicant one of the following: Per Water Code Section 79712(a). (Check all that apply, 1 minimum)	☐ Public Agency ☐ 501(c)(3) Nonprofit Organization ☐ Public Utility ☐ Federally recognized Indian Tribe ☐ State Indian Tribe listed on the Native American Heritage Commission's Tribal Consultation List ☐ Mutual Water Company ☐ Groundwater Sustainability Agencies (GSAs) formed in accordance with the Sustainable Groundwater Management Act are eligible applicants if they are a public agency or other eligible applicant type as listed above.	
2. Does the project fit the following criteria? (All are required)	☐ Is an implementation / construction project. (not planning) ☐ Responds to climate change ☐ Contributes to regional water security ☐ Contains at least two main benefits from section 3 (next section) (as listed in Section III. G – Storm Water Management Benefits (SWGP guidelines);	
3. Projects shall be multi-beneficial, designed to infiltrate, filter, store, evaporate, treat, or retain storm water or dry weather runoff. Preference will be given to projects that capture and "re-purpose" storm water for a variety of potential benefits including, but not limited to; (Check all that apply)	Main Benefit Category (2 minimum)	Additional Benefits / the project provides_____. (check all that apply)
	☐ Water Quality	☐ Increased water quality ☐ Non-point source pollution control ☐ Increased filtration/ runoff treatment ☐ Reestablished Natural water drainage
	☐ Water Supply	☐ Increased water supply ☐ Increased water supply reliability ☐ Increased water conservation ☐ Conjunctive use (combining use of groundwater and or groundwater storage with surface water) ☐ Storm Water Reuse
	☐ Flood Management	☐ Decreased flood risk ☐ Reduced peak flows ☐ Reestablished natural drainage and treatment

		☐ Reduced sanitary sewer overflows
	☐ Environmental	☐ Environmental improvement ☐ Habitat restoration or improvement ☐ Reestablishment of the natural hydrograph ☐ Water temperature improvements ☐ Reduced energy use, greenhouse gas emissions, or provides a carbon sink ☐ Water Temperature Improvements
	☐ Community Stewardship	☐ Employment opportunities ☐ Public education ☐ Community involvement ☐ Enhance and /or create relational public use areas ☐ Increased urban green space
4. Required Criteria: (Both are required)	☐ Does it demonstrate the capability of contributing to sustained, long-term water benefits for a minimum period of 20 years? ☐ Does it demonstrate adequate rights-of-way for the useful life (20-year minimum) of the project?	
5. Does the project meet the Funding Requirements? (Check all that apply)	☐ Minimum grant amount $250,000, maximum $10,000,000 ☐ Does the project have a matching funds source? Local (Non-State) Match includes (but is not limited to; check funding source): ☐ Donated and volunteer (“in-kind”) services; ☐ Planning, engineering, and design specific to the implementation project; ☐ Permitting; ☐ Environmental documentation and mitigation; ☐ Easements and land purchases made by the applicant; ☐ Project implementation (purchase of material, equipment, construction); ☐ Project effectiveness monitoring; ☐ Education and outreach is a component of the project construction.	

Local match must be:

- 50% of project cost,

- or if Disadvantaged Community (DAC/EDA) see Table 2 for reduced match information: (Generally the majority of Lassen County can be considered a DAC, excluding Janesville and portions of Susanville see https://gis.water.ca.gov/app/dacs for DAC mapping)

Table 2 - Reduced Match DAC and EDA*

Match Requirement [1,2]
Group A: Small & Severely DAC Storm Water Service Area and 100% of the Project Benefits the Small & Severely DAC 5% match if population is less than 20,000 persons **AND** median household income (MHI) is less than 60% of the Statewide MHI **Group B: DAC or EDA Storm Water Service Area and 100% of the Project Benefits the DAC or EDA** 10% match if the community meets the definitions **Group C: Greater than 50% of the Project Construction Occurs in and Benefits a DAC/EDA** i) 20% match, if 100% of the construction occurs in and benefits the DAC or EDA; ii) 25% match, if at least 75% (but less than 100%) of the construction occurs in and benefits the DAC or EDA; or iii) 30% match, if at least 50% (but less than 75%) of the construction occurs in and benefits the DAC or EDA.
[1] Match is calculated based on the *total project cost*, **not** on the grant amount. Total Project Cost x %Match = Required Match i.e. - $3,750,000 (Total Project Cost) x 10% (Percent Match) = $375,000 Match [2] See definitions in Appendix D

*Source: CA SWRP guidelines

Part 2 - Project description Form

I. Project Sponsor Information

Implementing Agency:	
Agency Address:	
Point of Contact (Name / Title):	
Telephone:	
Email:	

ii. Project Information

Project Title:	
Project Budget (Estimated):	
Project Funding Match with sources from Non-State of California matching funds:	
Project Location Description:	
Latitude:	
Longitude:	
Land Ownership:	
County:	
City/Community:	
Watershed/Sub-Watershed:	
Groundwater Basin:	
Project Description:	

ii. Additional Project Information

Cooperating Agencies (List agencies that will cooperate, or provide written support for project)	
Project work completed (Check boxes that apply and explain any additional work or studies that have been performed to date)	☐ Conceptual Plans ☐ Easements, Land ownership in order, completed ☐ Preliminary Plans ☐ CEQA NEPA Permitting ☐ Final Engineering Design, Construction drawings <u>Other Work Performed:</u>
Required Permits (Outline Require Permits and approvals needed on the project)	
Multiple Benefit Narrative (write a description of how the project is multi-beneficial, include elements that were not in the check list if any)	

III. ADDITIONAL RELEVANT INFOMATION

Write additional information that is relevant to the project here. Attach photos and additional data as needed (studies, plans, unique project data etc.)

IV. PROJECT BENEFIT QUANTIFICATION

1. The following benefits quantification will aid in ranking the projects. Quantifiable benefits are required per the SWRP Guidelines.
2. **Benefit Narrative**: briefly explain the element of the project from which the benefit is derived.
3. **Estimated benefit**: should be calculated to the best of the project proponent's ability.
4. **Assumptions and Calculation Comments**: assumptions should be stated here, and other relevant calculation comments.

Water Quality – Examples are: 303d pollutant load reduction, improved groundwater quality, improved surface water quality, reduce non-point sources, sediment load reduced, reestablish natural drainage and waterways, incorporates strategies from existing plans.		
Benefit Narrative:		
Metric	Unit	Estimated Benefit
Pollutant Load Reduction (Filtration/Treatment)	lb/year, MPN/Year	
Pollutant Load Reduction (Non-point Source Control)	lb/year, MPN/Year	
Sediment Load Reduction	lb/year	
Stormwater diverted through infiltration or evapotranspiration	acre-feet/year	
Assumptions and Calculation Comments:		

Water Supply - increased reliability, further conjunctive use, incorporates strategies from existing plans.		
Benefit Narrative:		
Metric	Unit	Estimated Benefit
Conjunctive Use - Volume of Stormwater Collected/Reused	acre-feet/year	
Volume of Stormwater Infiltrated	acre-feet/year	
Increased Efficiency, Volume of Water Conserved	acre-feet/year	
Assumptions and Calculation Comments:		

Flood Management - Reduce known flooding and risk, reduce anticipated flooding and risk, reduce damage & costs, incorporates strategies form existing plans, improve water quality during flooding events.		
Benefit Narrative:		
Metric	Unit	Estimated Benefit
Peak Flow Reduction	cfs	
Flood Volume Reduced	acre-feet	
Assumptions and Calculation Comments:		

Environmental - Wetlands enhancement, increased urban greenspace, re-establishment of natural hydrograph, improved habitat, reduction in energy consumption and GHG emissions Incorporates strategies from existing plans		
Benefit Narrative:		
Metric	Unit or Rating	Estimated Benefit
Area of wetlands and/or riparian habitat created or enhanced	acres	
Increased urban green space	acres	
Slowing peak flow - (Restore Natural Hydrograph)	Degrade, No Change, or Restore	
Water Temperature Improvement	Increase, No Change, or Decrease	
Energy use, or greenhouse emissions	Increase, No Change, or Decrease	
Assumptions and Calculation Comments:		

C**ommunity** - Job Creation, increased public awareness, increased community involvement, improving DAC communities, incorporates strategies from existing plan.		
Benefit Narrative:		
Metric	Unit or Rating	Estimated Benefit
Employment Opportunities Created	None, Low, Medium, or High	
Public Education	None, Low, Medium, or High	
Community involvement	None, Low, Medium, or High	
Enhance and/or create recreational and public use area	acres	
Assumptions and Calculation Comments:		