



AGENDA

Source Water Protection and Watershed Management in Washoe County

Team Meeting

Date: October 12, 2017

Time: 2 to 4 pm

Where: TMWA Office Independence Room

1355 Capital Blvd. Reno, NV 89502

1. Welcome, Sign In, Brief Introductions

2. Program Catch-Up / Progress to date / Timeline

• Goals, stakeholders, timeline, planning, GIS

3. What's the Problem?

• What the team has suggested

4. Understanding Our Water Quality Issues

• Overview of GIS data being used

5. Understanding Water Quality Issues in an Example Area

• GIS layers within a sample watershed

6. Next Steps

Next meeting and topics to cover



AGENDA

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Draft Purpose and Goals

Source Water Protection and Watershed Management in Washoe County Team Meeting 10-12-2017

Why We Are Doing This Plan (Plan Purpose)

Create a tool for communities in Washoe County to help protect drinking water sources and manage the Truckee River watershed to maintain and or improve water quality.

What Qualities the Plan Must Have (Goals of the Plan)

- Regional support and approval
- Coordinated, consistent with and complementary to other plans
- Useful to funding and regulatory agencies
- Identify water quality problems and solutions
- List of prioritized implementable projects
- Process for implementation, with roles and responsibilities
- Process to show benefits and accomplishments





Draft Team Meeting Schedule

Source Water Protection and Watershed Management in Washoe County Team Meeting 10-12-2017

Dates	
2017	Team Meeting Topics and Milestones
March 9	Program Overview
April 11	Existing planning documents; water quality concerns; plan needs
June 15	Desired outcomes and steps to achieve them
August 3	Plan purpose, goals understanding: Education, Funding, Collaboration, Communication
October 12	Understanding our water resources and tools
Nov / Dec	Understanding our aquifers and watersheds
2018	
January	Source Water Protection Areas
JanFeb.	Additional Stakeholder Outreach
March	Management Strategies for Aquifers and Watersheds
March to Dec.	Critical Project Profile Development and Prioritization
2019	
March	Plan Review
June	Final Plan Complete
May to Dec.	Public Review and Local Approval Process

DRAFT Stakeholders October 2017

Source Water Protection in Washoe County

Municipal Agency	Department / Section	Contact
,	Community Development Planning	 Janelle Thomas, Assoc. Civil Engr. Sienna Reid, Sr. Planner Claudia Hansen, Planning Manager
City of Reno	Public Works Environmental Sewer/Storm Drain Environmental Control Parks, Rec & Comm. Serv. Fire Council	 John Flansberg, Director Kerri Lanza, Senior Civil Engr, Environmental. Theresa Jones, Drainage Engr. Ryan Bird, Maintenance & Ops Mgr., Storm, Sewer Phil Tousignant, Env. Services Supervisor TBD Naomi Duerr, City Council
City of Sparks	Environmental Control Engineering Services Fire Redevelopment Public Works Planning & Zoning Community Serv. Planning Div Parks & Rec Council	 Toby Ebens, Env. Contrl. Super. TBD TBD TBD Andy Hummel, Utility Mgr. Armando Ornelas, City Planner Karen Melby, Development. Serv. Mgr. TBD Kristopher Dahir, City Council
Washoe County	Community Services Dept Coop Extension Emergency Management Engineering & Capital Projects Parks & Open Space Planning & Development	Mojra Hauenstein, Director Planning & Development Walt West, Licensed Engineer TBD TBD TBD Cheryl Surface, Natural Resources Planner Bob Webb, Planning Manager Vahid Behmaram, Water Management Planner Coordinator
Washoe County Health District		 Jim English, EHS Supervisor Wes Rubio, Sr. Env. Health Specialist Christopher Peterson, Licensed Engineer
Washoe Co CTMRD		Chris Benedict, Program Mgr.
NDOT	Stormwater	Zack Blumberg, Stormwater Planning Supervisor
NNWPC / WRWC		 Chris Wessel, Water Mgmnt Planner Jim Smitherman, Water Res. Progr. Mgr.
TMFMA		Danielle Henderson, Natural Resource Manager
TMRPA		 Kim Robinson, Exec. Dir Chris Tolley, Regional Planner

Resource Concepts, Inc 775-883-1600 <u>www.rci-nv.com</u>

Jill Sutherland Jill@rci-nv.com
Lynn Zonge lynn@rci-nv.com

DRAFT Stakeholders October 2017

Source Water Protection in Washoe County

TM Stormwater Committee	•	Theresa Jones Committee Coordinator Walt West, Licensed Engineer, Washoe Co Toby Ebens Env. Contrl. Super, Sparks
Washoe Storey Conservation District	•	Kevin Roukey, Director

Public Water Systems	С	Contact				
TMWA		•	Kara Steeland, Hydrologist Christian Kropf, Hydrogeologist			
IMWA		•	John Enloe, Dir. Nat. Res. Andy Gebhardt, Manager Operations and Water Quality Robert Charpentier, Communications Specialist			
Sun Valley GID		•	Darrin Price, General Manager			
Great Basin Water Co		•	Mark Rohus			
Verdi Meadows		•	Tom Holt			
Verdi Mutual Water Co		•	SPB TBD			
Washoe County Schools		•	Mark Erwin, Regulated Systems Compliance			

Committees / Organizations		Contact
One Truckee River	Nevada Land Trust	Lynda Nelson, OTR Lead
Olle Truckee Kivei		Alicia Reban, Ex. Dir.
KTMB		Christi Cakiroglu, Ex. Dir
Nature Conservancy		Mickey Hazelwood
GBI		• TBD
SNJ		• TBD

Federal Land Managers	Contact
USFS	• TBD
BLM	• TBD

Project Organizers	Department / Section	Contact		
Nevada Dept. Env.	Bureau of Safe Drinking Water	Kim Borgzinner, Source Water Program Lead		
Protection	Bureau of Water Quality Planning	Birgit Henson, Nonpoint Source Program Lead		
Nevada Dept. Conserv. & Nat. Resources		JoAnn Kittrell, Public Information Officer		
Resource Concepts, Inc.	Facilitators, Plan Development	Jill Sutherland, Senior Engineer, Project ManagerLynn Zonge, Fluvial Geomorphologist, Project Assistant		

Resource Concepts, Inc 775-883-1600 <u>www.rci-nv.com</u> Jill Sutherland <u>Jill@rci-nv.com</u>

Lynn Zonge lynn@rci-nv.com

DRAFT 10/12/2017 – Key Plans for Source Water Protection/Watershed Management in Washoe County

Truckee Meadows Regional Plan	
	Goals and Polices for: Regional Form and Pattern, Natural Resource Management, and Public Services and Facilities
	Goal 1.2 – provide necessary infrastructure for planned density (including septic to sewer conversion)
	Goal 2.1 – prepare integrated plans (with watershed related components and wellhead protection component)
	Goal 2.5 - The Regional Water Management Plan (RWMP) and local governments will revise their master plans to: (a) attain and
	maintain state and federal water quality standards, (b) protect water resources from degradation by storm water runoff
	Goal 3.1 –Regional Water Management Plan storm water and on-site sewage disposal components
Reimagine Reno – The City of	Guiding Principles and Goals with Citywide and Area Specific Policies
Reno Master Plan (Draft)	DRINKING WATER CONTAMINATION (Work with TMWA and other partners to ensure water utilities have sufficient capacity to continue
July 2017 (on-going)	providing drinking water to customers during a water quality emergency)
	WATER AND WASTEWATER SYSTEMS (land uses need to be compatible with underlying source water protection areas)
	HYDROLOGIC RESOURCES (Protect the quality and functions of significant hydrologic resources and major drainageways)
	MAJOR DRAINAGEWAYS (All major drainageways should be retained, protected, restored, and managed toprotect and improve surface
	and source water quality)
Sparks Comprehensive Plan	Goals and Policies for Resiliency and Conservation
(Master Plan)	Policy RC2: Protect the water quality of the Truckee River, drainages, lakes and aquifers.
2016	Policy RC4: Reduce pollution in stormwater runoff.
	Policy RC5: Protect groundwater quality through land use management that safeguards to recharge areas.
	Policy RC6: Implement BMPs.
Washoe County Master Plan	Goals and Policies for Public Services and Facilities, and Open Space and Natural Resource Management:
2008	Groundwater quality impacts of development
	Groundwater recharge areas
	Wastewater management
	Water quality impacts related to hazardous substance storage and disposal
	Stormwater runoff management, drainage and flood control facilities,
	Acquiring and managing open space to for protecting seeps and springs, aquifer recharge, wellhead protection.
2016– 2035 Comprehensive	Goals, policies and criteria for: Plan for Development of Sustainable Water Supplies, Regional Wastewater Treatment and Disposal
	Facilities, Regional Floodplain and Storm Water Management
Plan	Objective 1.2 Provide for a Sustainable Water Supply and an Acceptable Level of Service to the Community (protect groundwater
	recharge areas)
	Objective 1.3 Implement measures to protect and enhance water quality for a sustainable water supply
	Objective 2.1 Promote Efficient Use of Resources (Reduction of Non-Point Source Pollution for TMWRF Pollutant Credit)
	Objective 2.2 Manage wastewater for protection and enhancement of water quality
	Objective 3.1 Effective and integrated watershed management (protection of human health, property, water quality)

DRAFT 10/12/2017 – Key Plans for Source Water Protection/Watershed Management in Washoe County

Name of Plan	Local Master Plan Goals Policies and Objectives
TMWA 2016-2035 Water	TMWA's ability to: (1) meet the demands of its current customers and (2) determine the extent of TMWA's ability to service the future.
Resources Plan	Includes a Source Water Quality Assurance program and the WHPP
2016	
TMWA Wellhead Protection	Wellhead protection plan for wells operated by TMWA
Program (WHPP)	Well locations, wellhead protection areas and potential contaminant sources. Generally meets endorsement criteria, expand
2016	Stakeholder Building and Action Plan
Truckee Meadows Storm Water	Storm water management program for urbanized area compliance with NPDES Permit
Management Program (SWMP)	Protect quality of surface and groundwater resources
2014	Maintain and coordinate storm water activities with area agencies and groups
Nevada Department of	Storm water management program for State Transportation Facilities compliance with NPDES Permit
Transportation Storm Water	Reduce pollution associated with storm water discharge from NDOT's MS4 to the maximum extent practicable (MEP)
Management Plan	
2013	
Washoe County Regional Open	Goals for upper watershed and urban interface areas
Space and Natural Resources	GOAL 2: Provide sufficient water resources to support natural functions of open space.
Management Plan	GOAL 3: Integrate open space acquisition with water resource management where feasible.
2008	Implementation Plan includes wellhead protection areas.
City of Reno and TMSA/FSA	Projections through 2030 of regional development in the City of reno and Washoe County with anticipated infrastructure needs and cost
Water, Wastewater, and Flood	estimates.
Management Facility Plan - 2007	
Capital Improvement Plans	Plan and prioritize projects for public works storm water, drainage, wastewater, roads, other infrastructure
Watershed Management and	Tributary watershed evaluations for water quality protection
Protection Plan for Tributaries to	WQ standards, WQ goals, priority pollutants, TMDLs
the Truckee River	wastandards, wag goals, priority polititarits, Tivibes
2003	
Washoe County 208 Water	NPDES permits for discharge to surface waters, ground water permits for discharges that may impact subsurface waters, Underground
Quality Management Plan	Injection Control (UIC) permits for injection through wells, and storm water permits.
Quanty Wanagement Flan	injection control (ofe) permits for injection through wells, and storm water permits.
Truckee River Flood	Provide a variety of public safety, economic, recreational and environmental benefits to the Truckee Meadows region. Its primary goal is
Management Project Interlocal	to create a more resilient community by reducing flood damages and incorporates certain recreational and ecosystem restoration
Cooperative Agreement.	features within the footprint of the flood protection infrastructure.
One Truckee River Plan (OTR)	Public/private plan for Truckee River West McCarran to Vista.
2016	"Promote and protect water quality and ecosystem health in the Truckee River."
	Objectives and Implementation Plan calling for Watershed Management Plan and Source Water Protection Plan.





Draft Funding Questions

Source Water Protection and Watershed Management in Washoe County Team Meeting 10-12-2017

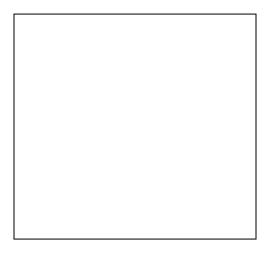
In an effort to describe funding options and matching opportunities and constraints of our stakeholders, we would like more information in the following topics:

- 1. **Match:** Does your agency/department have non-federal match for projects (such as 319 grant funded projects).
 - Approximate lead time necessary to commit to match
 - o For In kind
 - For Cash
 - o Point person(s)?
 - Types of approvals necessary?
 - O Dollar limitations for different levels of approval?
- 2. Funds: Does your agency/department have funds that can be used for projects?
 - Timing for regular funding cycles
 - Amount of funding typically available
 - Point person / contact
 - Advertisement link
- 3. Lead Agency: If grant opportunities were identified, could your agency be a lead?

Example HUC 12

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Prepare	d.	for	*	*	*	*

1.0 Introduction



Total Acreage	Public	Private
Jurisdiction	Reno	Washoe County
	Sparks	Tribal
Population		
Land Uses	Industrial/Commercial	Residential Rural
	Residential Urban	Forest/Range
Drinking Water Source	Surface: Truckee River	Groundwater: # wells
Basin	HUC 12 #	Groundwater Basin #
Special Considerations	(water quality issue/concern)	

2.0 WATERSHED & SOURCE WATER DESCRIPTION

PHYSICAL BOUNDARIES

- Watershed boundaries, elevation, tributaries, upper and lower descriptions, hydrographic unit association.
- Capture Zone or Wellhead protection areas

WATER USE AND WATER QUALITY OBJECTIVES

- Stream uses and water demands (irrigation, drinking water, recharge, etc.).
- Water Quality Objectives (Table)
 - o Beneficial Uses
 - o WQ Standards and RMHQ (NAC 445A)
 - Storm water discharge standards (MS4 Permit)
 - o Drinking Water MCL
 - USFS/BLM RMP designations
 - Specific local water quality objectives (TMWA)

Example HUC 12

Date****
Prepared for ****

3.0 WATER QUALITY CONCERNS AND CAUSES

(table format by contaminant type w supporting maps, also could reference to separate stand alone table or template for water quality issues common to multiple watersheds)

SURFACE WATER (SUPPORTING MAPS)

EXISTING CONTAMINANT SOURCES

- Impaired surface water: 303d List, TMDLs, storm water quality data, known pollutant loads.
- Recognized causes for these contaminants stream assessments

POTENTIAL CONTAMINANT SOURCES

- Fire, Flood, Development, etc.
- Land Use, fire maps

GROUNDWATER (SUPPORTING MAPS)

EXISTING CONTAMINANT SOURCES

• For groundwater, use PCE remediation area, known plumes, vulnerability assessment data for anthropogenic contaminants.

POTENTIAL CONTAMINANT SOURCES

Land uses, zoning, facility locations etc.

4.0 Existing Policy, Plans and Programs

IDENTIFY JURISDICTIONAL BOUNDARIES (SUPPORTING MAP)

- County, Cities, Tribal, state land, public land (USFS),
- WRWC, TMRPA, MS4
- NAB, CAB

RESPONSIBILITIES AND RESOURCES

Stakeholders

EXISTING PROGRAMS (TABLE FORMAT WITH REFERENCES)

- Master Plan and Other Plans
- Regulatory Programs
- Projects (indicate pollutant load reductions if known)

Example HUC 12

Date****
Prepared for ****

5.0 MANAGEMENT MEASURES

- o Strategies
- o Prioritization Method

6.0 PLAN IMPLEMENTATION

- Summary
- Critical Project profiles

7.0 Public Participation TBD after gap analysis with a lot of input from the Team

Consider how to document the public participation process. Coordinate with planners and staff to find out the level of public participation needed for the jurisdictions to comfortably approve/adopt the Plan.

8.0 REFERENCES