City of Carson City Agenda Report

Date Submitted: October 8, 2012 Agenda Date Requested: October 18, 2012

Time Requested: 15 Minutes

To: Mayor and Supervisors
From: Public Works Department

Subject Title: For Possible Action: To approve and authorize the Mayor to sign a letter of support for

participation in the Integrated Source Water Protection Program. (Andrew Burnham)

Staff Summary: Presentation from Kim Borgzinner, Staff Engineer, for the Division of Environmental Protection, Bureau of Water Pollution Control; is providing an overview of the State's Integrated Source Water Protection Program (also referred to as "ISWPP") and requesting Carson City's support for and participation in the ISWPP.

Type of Action Requested: (check or	ne)
() Resolution (_X) Formal Action/Motion	
Does This Action Require A Busines	s Impact Statement: () Yes (_X) No

Recommended Board Action: I move to approve and authorize the Mayor to sign a letter of support for participation in the Integrated Source Water Protection Program.

Explanation for Recommended Board Action: The Integrated Source Water Protection Program will assist communities in understanding where water comes from and what our community can do to protect the drinking water supply. The State will provide technical assistance and consultant Resource Concepts Inc. will develop the ISWPP with staff's support.

The ISWPP will assist those water systems that do not have the resources or a well head protection program to fall under a program that would be standardized under the City. This program is completely Grant funded and requires staff's time to provide the data and information of the local process and characteristics of the community.

Additionally staff will provide a summary of the current wellhead protection program.

Applicable Statute, Code, Policy, Rule or Regulation: N/A

Fiscal Impact: Staff time.

Explanation of Impact: N/A

Funding Source: N/A

Alternatives: Provide other direction pursuant to Board Action

Supporting Material: Presentation Materials and Letter of Support

Prepared By: Andrew Burnham, Public Works Director

Reviewed By:	(City Manager) (City Manager) (District Attorney) (Finance Director) Date: 10/9/12 Date: 10/9/12	
Board Action	Taken:	
Motion:	1)	Aye/Nay
(Vote Reco	orded By)	

Carson City Well Head Protection Program

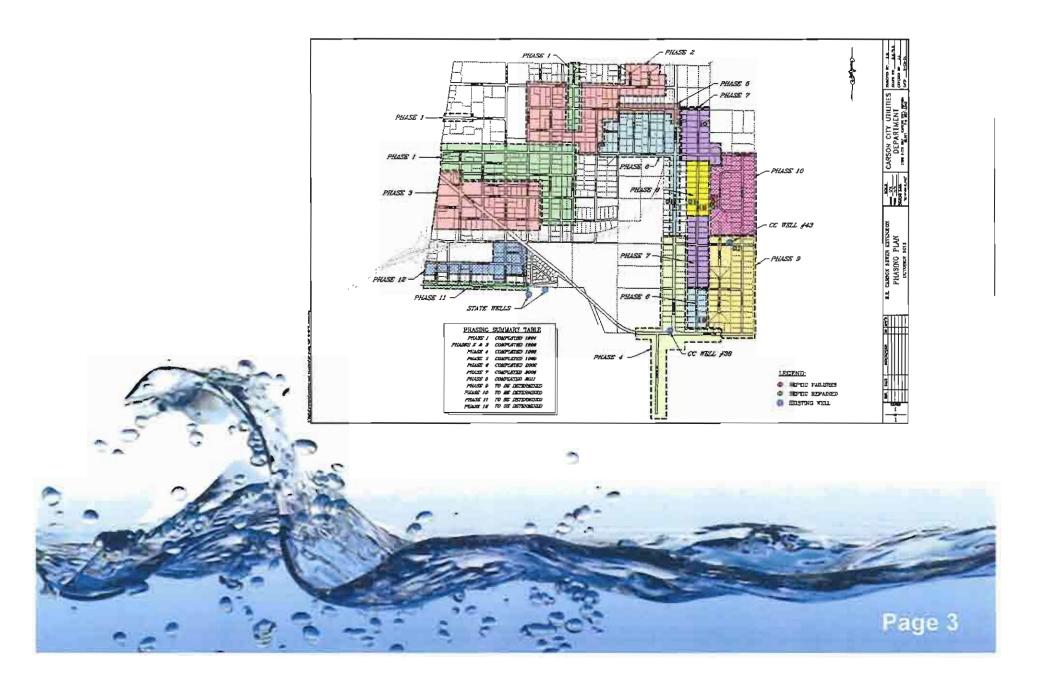


Background

- Program to prevent groundwater pollution and protect groundwater sources of public drinking water
 - •1992 grant money to start program
 - •1993 Nitrate contamination from septic systems SE Carson -Failing septic systems Empire area
 - •1994 Household hazardous waste program established
 - •1995 Municipal code updates setting standards and mandatory sewer area
 - •1998 Wellhead Protection Program Adopted
 - •2000 State endorsement of program

•1994-2011 Sewer Extensions SE Carson (not complete yet)





Reason to participate

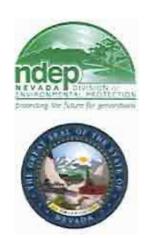
- Integrated Source Water Protection
- Changes to water supply system since 1990's
- Update of contaminant sources
- Integrated water supply with Douglas and Lyon Counties
 - Douglas County completed their plan in 2012
 - Lyon County approved participation
- Conversion to current technology
- State technical assistance provided

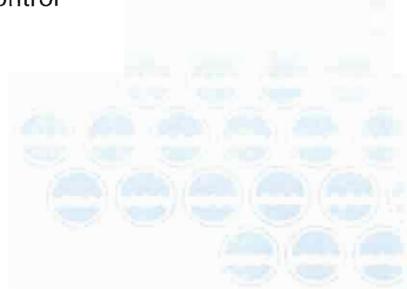




Kim Borgzinnner

Ground Water Protection Branch Bureau of Water Pollution Control





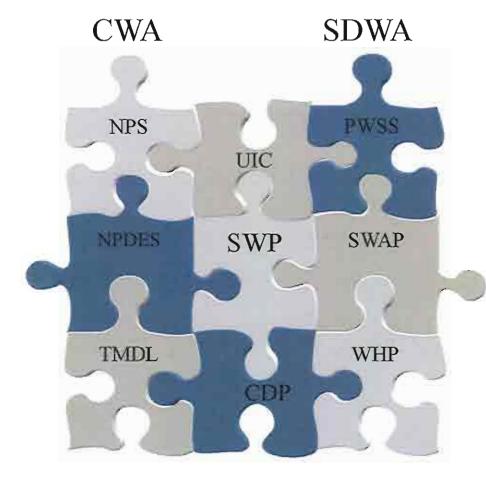
 Protecting public drinking water supplies at the source – lakes, springs streams, rivers and wells – before pollution enters our drinking water supply.



Managing land uses and human caused sources of contamination.

What is Integrated Source Water Protection?





CWA-Clean Water Act

NPDES - National Pollution Discharge Elimination System

NPS - Non-Point Source Program

TMDL - Total Maximum Daily Load

SDWA - Safe Drinking Water Act

CDP - Capacity Development Program

PWSS - Public Water System Supervision Program

SWAP - Source Water Assessment Program

SWP - Source Water Protection

UIC - Underground Injection Control

WHP – Wellhead Protection

What is Integrated Source Water Protection?



ISWPP, formerly the WHPP was updated in 2008 to a county wide planning approach

ISWPP is a comprehensive, voluntary approach empowering communities to develop and implement a plan to protect their drinking water supplies.



We help your community protect your drinking water.

What is the Integrated Source Water Protection Program (ISWPP)?

 Less effort and money is spent to protect drinking water supplies than to clean them once contamination has occurred.

Avoiding water supply contamination up front lessens:

- Associated health issues
- High costs of water treatment
- New source development





Niagara Falls LOVE CANAL TRAGEDY

99 homes in which 230 adults and 134 children resided



Deformed Teeth
Thyroid Disease
Pernicious Anemia
ADHD
Auto-immune conditions

Stillborn Births
Birth Defects
Cancer
And so on...



Toxic Waste found in the Love Canal Contaminated the communities drinking water supply



A Neighborhood Evacuated and Quarantined!

Why is Integrated Source Water Protection Important?



Times Beach Missouri

Dioxin Scare (Population 2200)

Permanent Evacuation in 1983

36 million dollar Government Purchase of Property

Devoid of human life for about two decades



Why is Integrated Source Water Protection Important?



PG&E Hinckley, CA

(Population 800) Chromium Contamination

Once the toxic material was in the unlined ponds, there was nothing to stop it from migrating to the wells that supplied nearby homes, farms and ranches









Carson River Mercury Site





Mexican Mill in Carson City

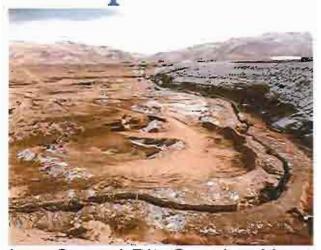
Lahontan Reservoir and Dam

Carson City to east of Dayton and from Silver City and gold Hill through Six-Mile Canyon and Gold Hill Canyon down to the Carson River.

Why is Integrated Source Water Protection Important?



Sparks Solvent Fuel Site



Helms Gravel Pit, Sparks, Nevada, 1990



Spark Marina Park Lake



Flooding of Helms Gravel Pit, Sparks, Nevada, 1997



Proposed Legends at Sparks Marina



Other Statewide Concerns

PCE from laundering facilities



Statewide septic issues



- Upcoming pharmaceutical concerns
- And so on.....





NDEP Request for Proposal Process to encourage ISWPP Participation:

- 1. Open to private consultants, local governments, water conservation groups, non-profit organizations, etc.;
- 2. NDEP selects grant awardees based upon current state planning goals, work plans proposed, current community planning momentum, demonstrated support of the plan; etc.
- 3. NDEP's current focus is on contracting with a technical assistance provider to help all Nevada communities to participate.

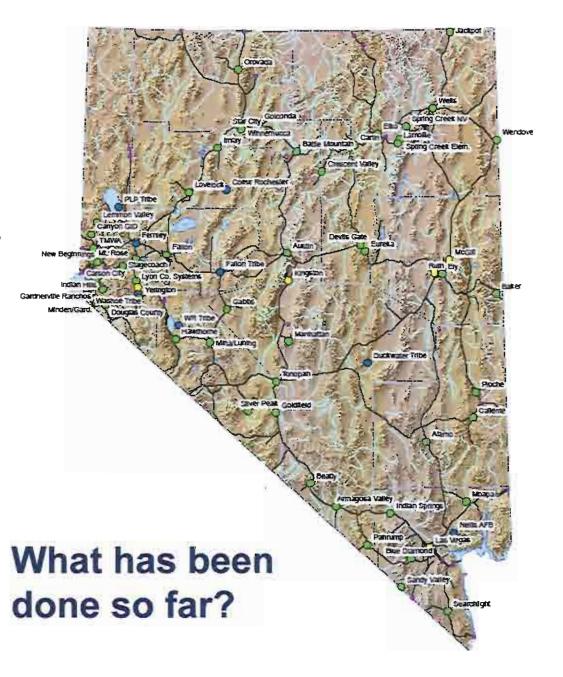
How does ISWPP work for you?

WHPP (since 1994):

- 60 State Endorsed
 Plans
- 8 Completed Plans (not endorsed)
- 40 Plans: SI

ISWPP: Countywide

Douglas
White Pine
Nye



NDEP has contracted directly with RCI to help with every aspect of source water protection planning and implementation in Carson City and Lyon County (100% grant funded).

NDEP coordinates Source Water Protection (SWP) with other government agencies for maximum protection of Nevada's water resources.

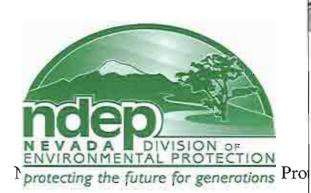
NDEP provides future funding opportunities for plan Implementation.

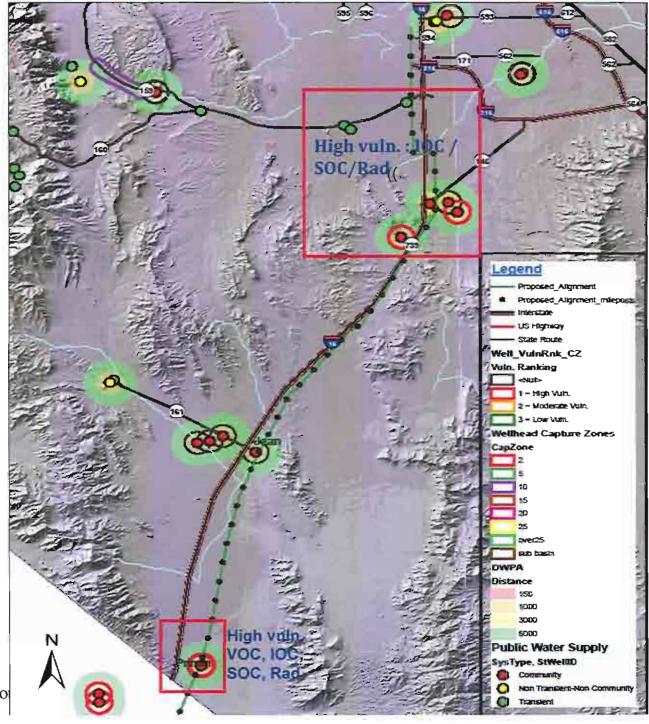




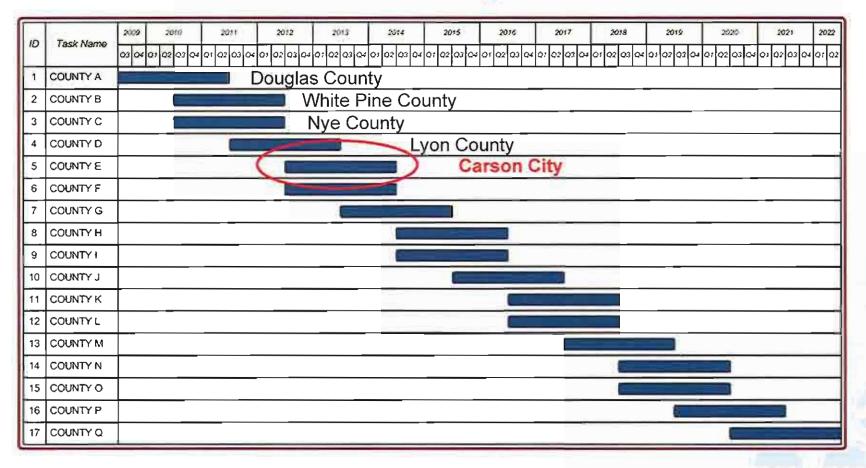
Source Water Protection & Nevada GIS

- Planning
- Permitting
- Coordination
- Education & Outreach





Statewide Planning Schedule



Applying ISWPP statewide



Local Contribution

- Provide NDEP with a letter of support
- Dedicate staff time
- Formal approval of the plan
- Seek opportunities to implement the plan

What are we asking from you?





http://ndep.nv.gov/bwpc/sourcewater.htm

http://ndep.nv.gov/bwpc/wellhead.htm

Kim Borgzinnner

Bureau of Water Pollution Control

775.687.9503 kborgzinner@ndep.nv.gov

Questions and comments





CARSON CITY, NEVADA CONSOLIDATED MUNICIPALITY AND STATE CAPITAL

October 18, 2012

Kim Borgzinner, Coordinator Integrated Source Water Protection Program NDEP Bureau of Water Pollution Control 901 Stewart Street, Suite 4001 Carson City, Nevada 89701

Subject: Carson City Participation in the State of Nevada's Integrated Source Water

Protection Program

Dear Ms. Borgzinner:

At our meeting on October 18, 2012, the Board of Supervisors approved Carson City's participation in the State of Nevada's Integrated Source Water Protection Program (ISWPP).

We, the Carson City Board of Supervisors, consider the quality of the City's drinking water supply a critical consideration in its future. Drinking water free from contamination is a resource that must be preserved and protected in order to ensure the future sustainability of each of our communities. We understand that the Nevada Division of Environmental Protection's Bureau of Water Pollution Control (NDEP) administers the ISWPP for the purpose of providing technical assistance to both the City and its communities on drinking water protection and preservation.

Further, we understand that the development and implementation of Community Source Water Protection (CSWP) plans within the City are an integral part of the City's participation in the ISWPP. The Carson City Board of Supervisors supports development of community-specific CSWP plans that promote local knowledge and understanding of drinking water resources, and local control over how these resources are best managed and protected.

The Board believes that the effort to develop CSWP plans throughout Carson City will entail a long-term commitment from the City and all of the communities within the City. Therefore, the Board directs staff to provide support to both NDEP and community representatives, consistent with the City's existing wellhead protection program, toward successful completion of CSWP plans throughout Carson City.

Sincerely,

Robert L. Crowell, Mayor Board of Supervisor

e-mail: bcrowell@carson.org