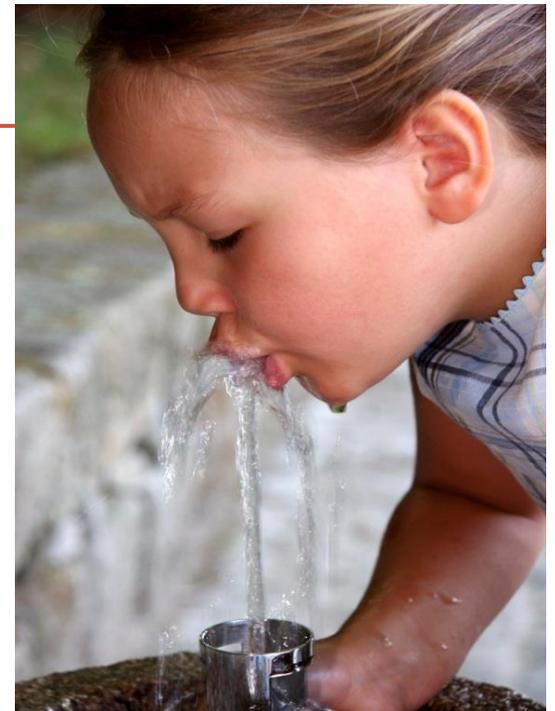


DEQ'S SOURCE WATER PROTECTION PROGRAM

Amy Williams
Source Water Program Coordinator
Department of Environmental Quality



Who is DEQ?

- The Department of Environmental Quality's mission is to ensure clean air, water, and land in Idaho and protect citizens from pollution
- State Office
- 6 Regional Offices



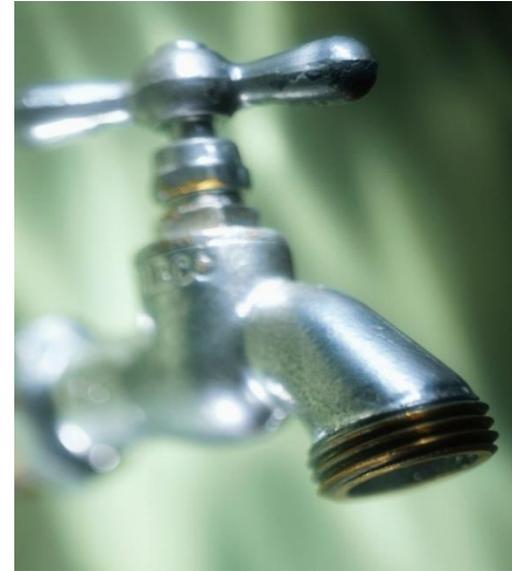
Source Water Protection

All communities depend on clean drinking water supplies to protect and enhance:

- Public health
- Environmental quality
- Economic development
- Quality of life

DEQ Programs...

Drinking Water Program:
Protection of drinking water at
the tap



Source Water Program:
Protection of drinking water
at the source

Source Water

is defined as “any aquifer, surface water body, or watercourse from which water is taken either periodically or continuously by a public water system for drinking or food processing purposes”.

(Idaho Source Water Assessment Plan).



What is Source Water?

Source water is drinking water **prior** to reaching the public water system.





What if it becomes contaminated?



- <http://www.youtube.com/watch?v=XzfdGnEbyD4>

Contaminated drinking water can sicken or kill people and can force a Public Water System to shut down.

USA TODAY Home News Travel Money Sports Life Tech

News » Nation Troops at Risk States Lotteries

250 sick in Colo. water contamination

Posted 19d ago | Comments 18 | Recommend 10 E-mail | Save | Print | RSS



ALAMOSA, Colo. (AP) — Crews started pumping chlorine through this southern Colorado city's water system Tuesday to rid it of salmonella bacteria that has sickened nearly 250 people.

Residents will not be able to drink the water until the last of the disinfecting chemical washes out of the water system, possibly a couple of weeks, officials said. Bathing with it may be allowed within a couple of days.

RELATED: Probe finds drugs in tap water nationwide

In the meantime, water distribution centers were set up throughout town and Mayor Pro Tem Kathy Rogers said there were plans to bring in temporary showers, if necessary.

Enlarge By Bill Ros

Drinking water engineer for the Colorado Department of Public Health and Environment Joey Talbott, runs test on the contaminated water in Alamosa, Colo., March 25, 2008.

January 25, 2005

DEQ coordinates efforts to provide safe drinking water for south Boise residents

BOISE—Work is underway to assure safe drinking water for residents of the Terra Grande Subdivision in south Boise, reports the Idaho Department of Environmental Quality (DEQ).

Late last week, routine monitoring and follow-up tests showed that the Terra Grande Water system was contaminated by Trichloroethylene (TCE), a solvent used primarily to remove grease from metal parts. The system provides water to approximately 110 households in the Terra Grande Subdivision in south Boise.

By the end of this week, the contaminated Terra Grande wells will be disconnected and replaced with connections to United Water.

Deadly E.coli in Ontario

Contaminated Water Supply in Walkerton, Ontario Kills Seven

Dateline: 05/31/00

Seven people are now dead, and a dozen remain in regional hospitals, as Walkerton, Ontario deals with a town water supply contaminated by E.coli bacteria. Hundreds of others have been sick with bloody diarrhea, cramps and nausea, and it could be another week before Walkerton residents can drink tap water safely again, according to the CBC. Schools will remain closed for the rest of this week at least.

Source Water Protection

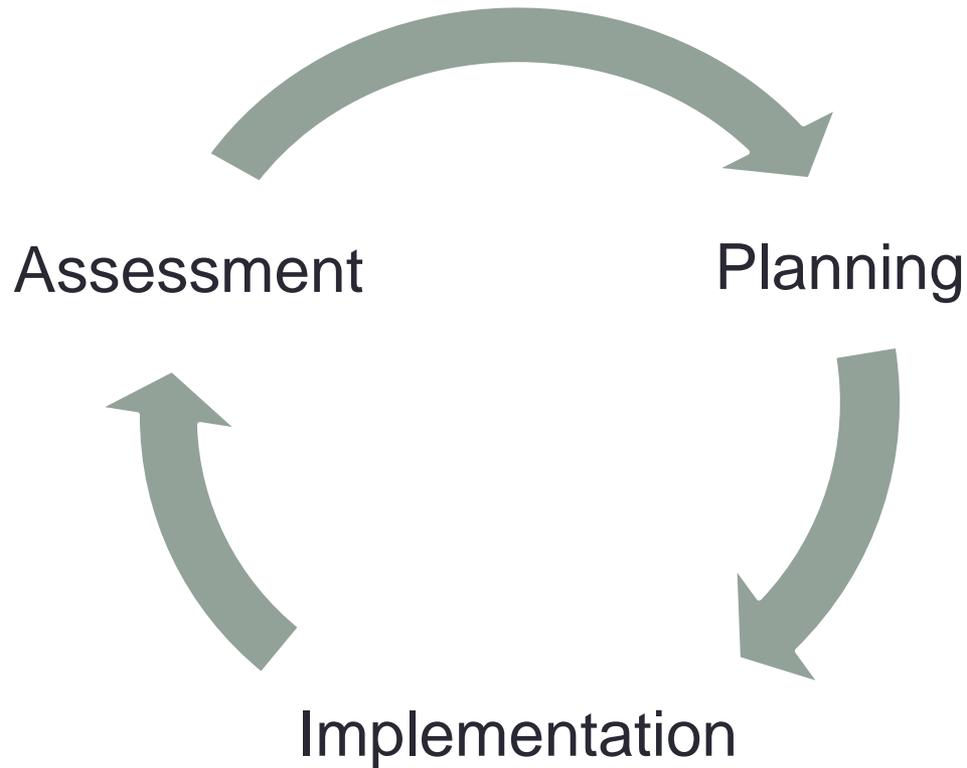


Source water protection is a **voluntary** effort a community can implement to help reduce the risk of contamination of the source water that supplies its public water system.

Benefits of Source Water Protection

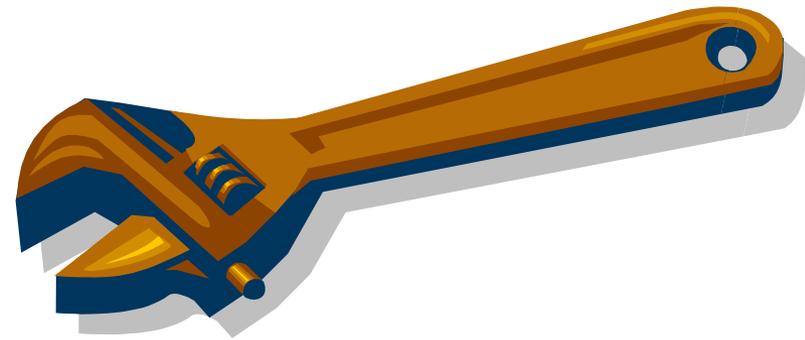
- Reduce health risks related to contaminated water
- Reduce/avoid water treatment costs
- Avoid costly expense to develop new water sources or system replacement if contamination occurs
- Required for Grant and Loan Programs

Source Water Protection



DEQ Tools and Resources

- Source Water Assessment Website
- Source Water Protection Plan Template
- Source Water Contingency Plan Template
- Source Water Protection Activity Guide



SOURCE WATER ASSESSMENTS

TOOLS TO EVALUATE PUBLIC
DRINKING WATER SOURCES

What is a Source Water Assessment ?



Provides information on:

- where the water comes from
- potential threats to the water supply
- how likely the water supply will be contaminated

A starting point for drinking (source) water protection efforts

What does an Assessment Include?

Delineation



Potential Contaminant Inventory



Susceptibility Analysis



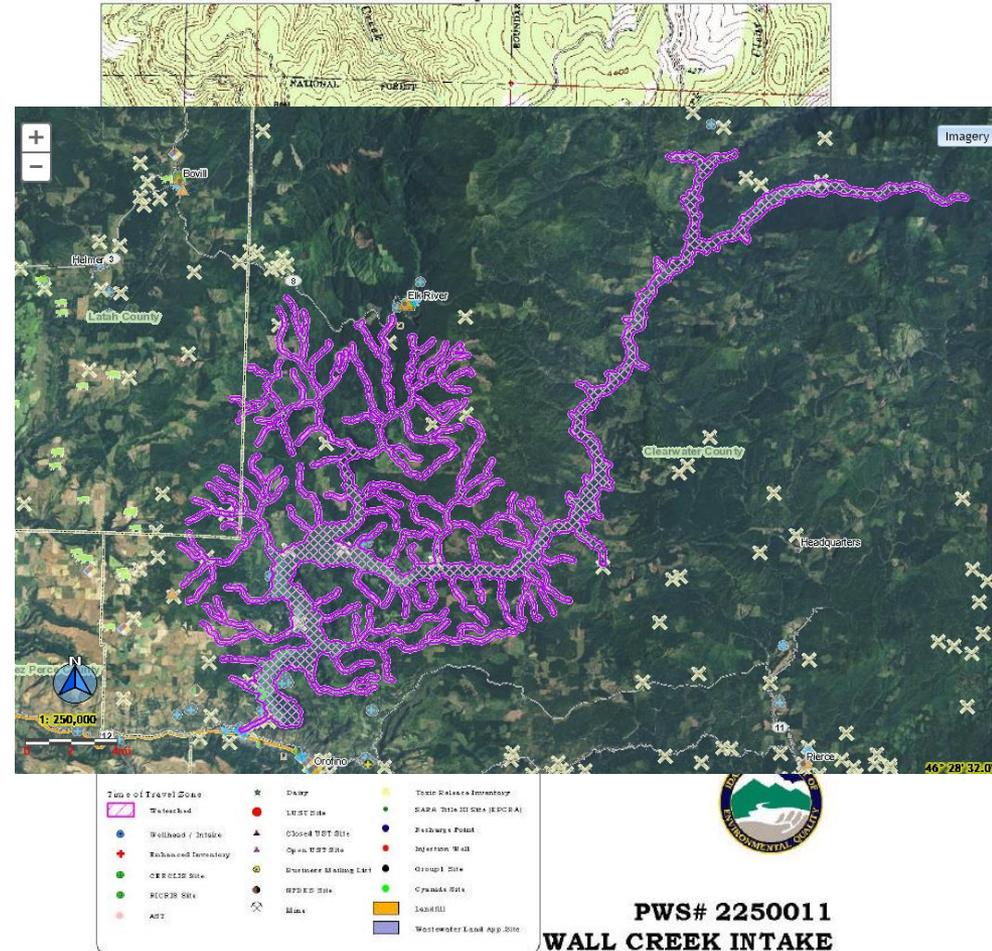
Distribute to the Public

Source Water Delineation

Surface Water Sources

- watershed boundaries
- 25 miles upstream (4 hour stream flow) and a 500 foot buffer on each side of the river/stream
- 500 foot buffer around lake

FIGURE 2. Clearwater Water District Delineation Map and Potential Contaminant Source Locations



Source Water Delineation

Ground Water Sources

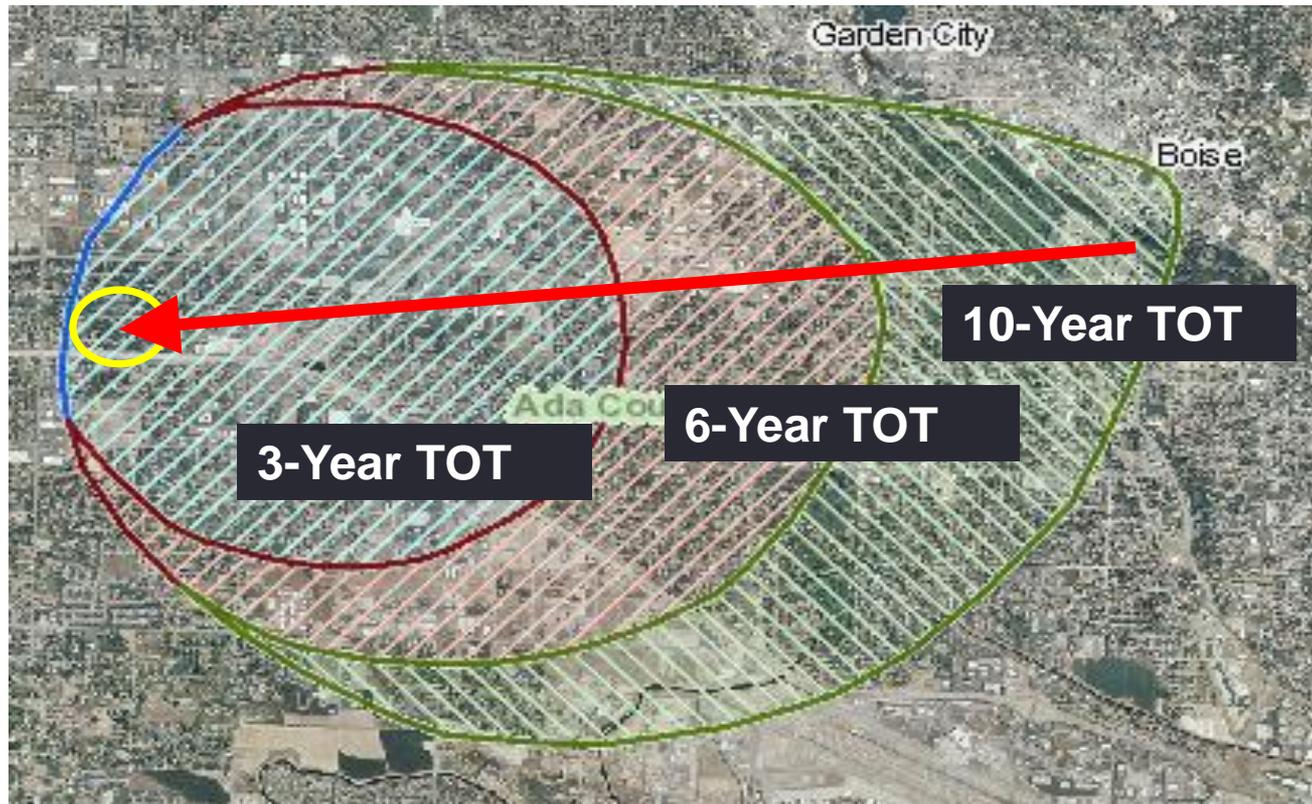
- Fixed Radius Method – 1000 foot radius



Source Water Delineation

Ground Water Sources

- Refined Analytical Method – uses ground water flow model to determine flow direction and time of travel zones (TOT)



What does an Assessment Include?

Delineation



Potential Contaminant Inventory



Susceptibility Analysis



Distribute to the Public

What is a Potential Contaminant Inventory (PCI)?

- An inventory of potential contaminant sources within the delineated source water assessment area.
- A potential contaminant is defined as any facility or activity that meets these criteria:
 - stores, uses, or produces, as a product or by-product, the contaminants regulated under the federal Safe Drinking Water Act, and
 - has a sufficient likelihood of releasing the contaminants at levels that could potentially harm drinking water sources

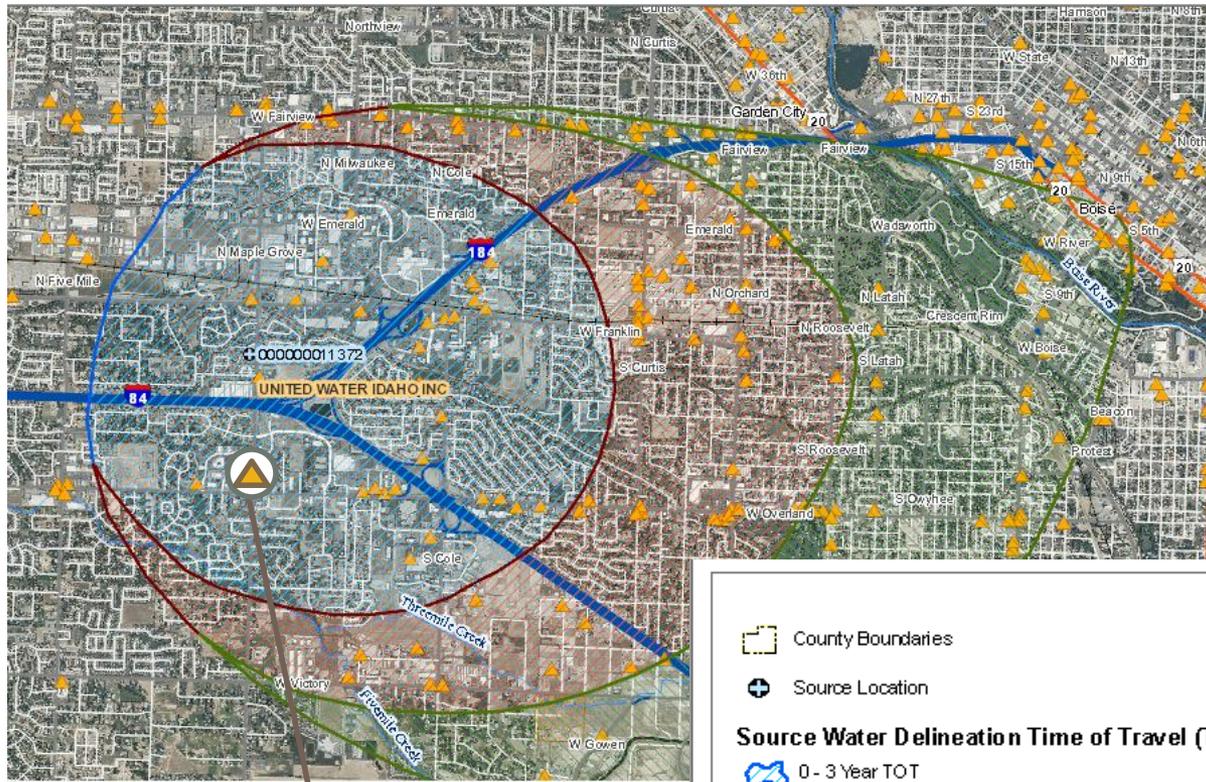
What Potential Contaminants Are We Primarily Concerned About?

- Microorganisms (Microbials)
 - Bacteria (Coliform – *Escherichia (E.) Coli*)
 - Viruses (Hepatitis)
 - Protozoa (*Cryptosporidium*, *Giardia lamblia*)
- Inorganic Chemicals (IOC)
 - Nitrate, metals (Arsenic, Lead, Chromium), Uranium, Fluoride.
- Volatile Organic Chemicals (VOC)
 - Petroleum products, solvents
- Synthetic Organic Chemicals (SOC)
 - Pesticides, herbicides, insecticides

PCI Datasets

- **Public Water Systems**
- **CERCLA Sites**
- **Toxics Release Inventory**
- **UST Sites**
- **Dairies**
- **NPDES**
- **RCRA**
- **Mines**
- **Injection Wells**
- **Surface Water**
- **Landfills**
- **WLAP fields**
- **Agricultural Land uses**
- **Nitrate Priority Areas**
- **Soil Drainage Class**
- **Floodplains**
- **Agricultural Chemical Use**
- **Feedlots**
- **Tunnels/Drains**
- **Lagoons**
- **Phosphate Mines**
- **Railroad**
- **Remediation Sites**
- **ITD road salt locations**
- **Pesticide Mgt. Areas**
- **CAMEO**

Potential Contaminant Inventory



 UST Site

Map Legend

 County Boundaries	 Shallow Injection Well	 Landfill
 Source Location	 Deep Injection Well	Streets (100k)
Source Water Delineation Time of Travel (TOT)	 NPDES Location	Roads
 0 - 3 Year TOT	 RCRA Site	 Highway
 3 - 6 Year TOT	 Drain Location	 Limited Access
 6 - 10 Year TOT	 Road Salt Location	 Local Road
Potential Contaminants Inventory Locations	 Mine Site	 Major Road
 CERCLA Site	 CAMEO Chemical Facility	 Other Road
 Toxics Release Inventory Site	 Tunnels And Drains	 Ramp
 Remediation Site	 Railroad	 Trail
 UST Site	 Phosphate Mine	 4WD
 Dairy	 Water Reuse Area	
 Feedlot	 Wastewater Lagoon	
	 Pesticide Management Area	


IDEQ GIS Dec 2010

You are currently viewing: ID7100004 AMMON CITY OF
 Source Number: E0007170
 Source Name: WELL #6
 Evaluation Date: September 29, 2011

TOT	Description of Potential Contaminant Source	Potential Contaminant(s)	Name	Date Updated
0-3 years	Water Reuse Area	IOC, Microbe	Idaho Pacific Corporation	9/29/2011
0-3 years	Water Reuse Area	IOC, Microbe	Idaho Pacific Corporation	9/29/2011
0-3 years	Water Reuse Area	IOC, Microbe	Idaho Pacific Corporation	9/29/2011
0-3 years	Landfill	IOC, VOC, SOC, Microbe	Rirrie	9/29/2011
0-3 years	Surface Water	Site specific	Snake River	9/29/2011
0-3 years	CAMEO Chemical Facility	Site specific	Maverik Country Stores #156	9/29/2011
0-3 years	CAMEO Chemical Facility	Site specific	Maverk Country Stores #385	9/29/2011
0-3 years	Shallow Injection Well	IOC, VOC, SOC, Microbe	Doug Tolbert	9/29/2011
0-3 years	Shallow Injection Well	IOC, VOC, SOC, Microbe	Wood Funeral Home	9/29/2011
0-3 years	UST Site	VOC, SOC	THOMAS L ADAMS	9/29/2011
0-3 years	UST Site	VOC, SOC	RIRIE PRODUCERS COOP INC.	9/29/2011
0-3 years	UST Site	VOC, SOC	MAVERIK COUNTRY STORE #156	9/29/2011
0-3 years	UST Site	VOC, SOC	GATEWAY SERVICE	9/29/2011
0-3 years	UST Site	VOC, SOC	ROCKWOOD GARAGE	9/29/2011
0-3 years	UST Site	VOC, SOC	G & C DISTRIBUTING	9/29/2011
0-3 years	UST Site	VOC, SOC	6-12 EZ MART	9/29/2011
0-3 years	UST Site	VOC, SOC	LEGENDS CONVENIENCE STORE 2	9/29/2011
0-3 years	UST Site	VOC, SOC	CITY OF AMMON	9/29/2011
0-3 years	Mine Site	Site specific		9/29/2011
0-3 years	Mine Site	Site specific		9/29/2011
0-3 years	Deep Injection Well	IOC, VOC, SOC, Microbe		9/29/2011
0-3 years	NPDES Location	Site specific	WASTEWATER TREATMENT PLANT	9/29/2011

What does an Assessment Include?

Delineation



Potential Contaminant Inventory



Susceptibility Analysis



Distribute to the Public

Susceptibility Analysis

Evaluates the conditions in the delineated area to determine the potential for contaminants to impact water quality at the source.

- Hydrologic Sensitivity
- Potential Contaminant Source/Land Use
- System Construction

Susceptibility scores are specific to a particular potential contaminant or category of contaminants (IOC, VOC, SOC, and microbials)

Susceptibility Score

- Ranking of high, medium, or low.

Susceptibility Scores for MCCORMICK PARK (PWS# ID3020010) WELL 2 D0060349									
System Construction	Potential Contaminant Inventory / Land Use				Hydrologic Sensitivity	Final Susceptibility Ranking			
	IOC	VOC	SOC	Microbials		IOC	VOC	SOC	Microbials
L	M	M	M	M	H	Auto High	Auto High	Auto High	Auto High
H = High Susceptibility, M = Moderate Susceptibility, L = Low Susceptibility. System Construction refers to the well, spring, or surface water intake.									
Auto High - see below.*			Report Date: 3/12/2013			Click for Map	Click for details		

Well Susceptibility Scoring Results

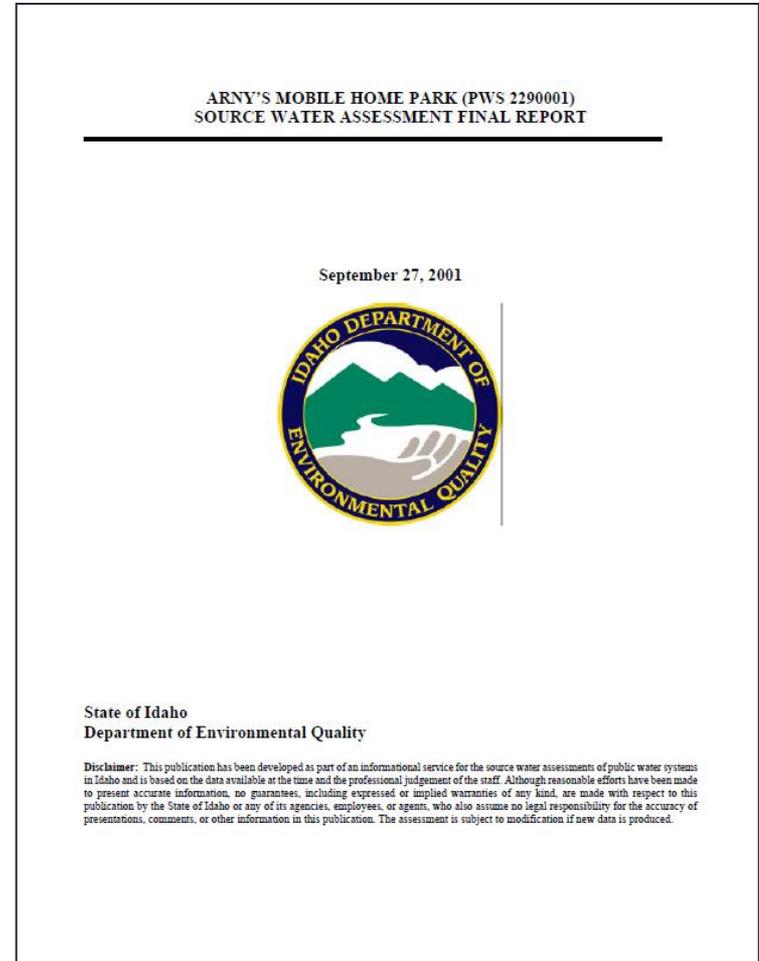
Ground Water Susceptibility Report	
Report Date: March 12, 2013	PWS Number: ID1020010
Public Water System Name: MCCORMICK PARK	
Source Name: WELL 2	Tag Number: D0060349
Well Attributes	
Well Depth: 170 (feet below ground surface (ft bgs))	Casing Diameter: 6 (inches)
Casing Thickness: 0.353 (inches)	Casing Depth: 130 (ft bgs)

Potential Contaminant Source / Land Use - Zone 1A (≤ 50ft)	IOC	VOC	SOC	Microbe
Land Use Zone 1A	Urban/Commercial			
Farm chemical use high	No	No	No	
IOC, VOC, SOC, or Microbial source in Zone 1A (< 50ft)	Yes	Yes	Yes	Yes
Type of source:	Two roads and a parking lot			
Confirmed detection of VOC, SOC, or Microbe; or IOC detection over MCL	Yes	No	No	No
Detected contaminants	1/11/2012: Iron at 0.55 mg/L and Manganese at 0.06 mg/L			

Greatest Defined Time-of-Travel to the Source	3 years			
Definition Method	Fixed Radius			
Potential Contaminant Source / Land Use - Zone 1A (≤ 50ft)	IOC	VOC	SOC	Microbe
Land Use Zone 1A	Urban/Commercial			
Farm chemical use high	No	No	No	
IOC, VOC, SOC, or Microbial source in Zone 1A (< 50ft)	Yes	Yes	Yes	Yes
Type of source:	Two roads and a parking lot			
Confirmed detection of VOC, SOC, or Microbe; or IOC detection over MCL	Yes	No	No	No
Detected contaminants	1/11/2012: Iron at 0.55 mg/L and Manganese at 0.06 mg/L			
Potential Contaminant Source / Land Use Score - Zone 1B (0-3 yr TDT)	IOC	VOC	SOC	Microbe
Contaminant source present (number of sources)	3	3	3	3
Source of Class II or III leachable contaminants	3	3	3	
0-3 yr TDT contains or intercepts an area of defined ground water degradation	No	No	No	No
Land Use Zone 1B	<25% eq			
Scoring	IOC	VOC	SOC	Microbe
Final PCI / Land Use Ranking	H	H	H	H
Final Susceptibility Ranking	Auto High	Auto High	Auto High	Auto High
Technical Notes:				

Distribute to the Public

DEQ has provided
Source Water
Assessment
information on our
website.



www.deq.idaho.gov/water/swaOnline/

SWA Website Demonstration



www.deq.idaho.gov/water/SWAonline



Search

You can search the DEQ source water assessment database to find source water assessment data for public water systems in Idaho.

You do not need to use a wildcard to search below. You can enter partial information as search criteria, and all search results containing that criteria will be returned.

[State Dynamic Map](#)

Search

County:

Public water system number:

Water system name:

Water source:

Exclude Inactive Sources in Search Results:

Search

www2.deq.idaho.gov/water/swaOnline/

Show

10

entries

Search:

PWS # ▲	PWS Name ▼	Source Name ▼	Status ▼	County ▼	▼	▼	▼	▼	▼
ID1050003	CAMP SANDERS	WELL #1	Inactive	BENEWAH	Susceptibility Summary	Potential Contaminant	Dynamic Map	Static Map	Summary Report
ID1050004	CASSANDRA HILLS OWNERS ASSN	WELL #3	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050004	CASSANDRA HILLS OWNERS ASSN	WELL #2	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050004	CASSANDRA HILLS OWNERS ASSN	WELL #1	Inactive	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050005	CHERRY CREEK TRAILER PARK	WELL #1	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050008	COTTONWOOD POINT WATER ASSN	WELL #1	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050008	COTTONWOOD POINT WATER ASSN	WELL #2	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050009	EMIDA CITY OF	WELL #3	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050010	EVERGREEN TERRACE WATER ASSOCIATION	WELL #2	Inactive	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report
ID1050010	EVERGREEN TERRACE WATER ASSOCIATION	WELL #3	Active	BENEWAH	Susceptibility Summary	Potential Contaminants	Dynamic Map	Static Map	Summary Report

SWA Search Map Legend

Search By County:

Ada

Select by Public Water System:

Select a County (above)

Search by PWS Name:

Search by PWS No:

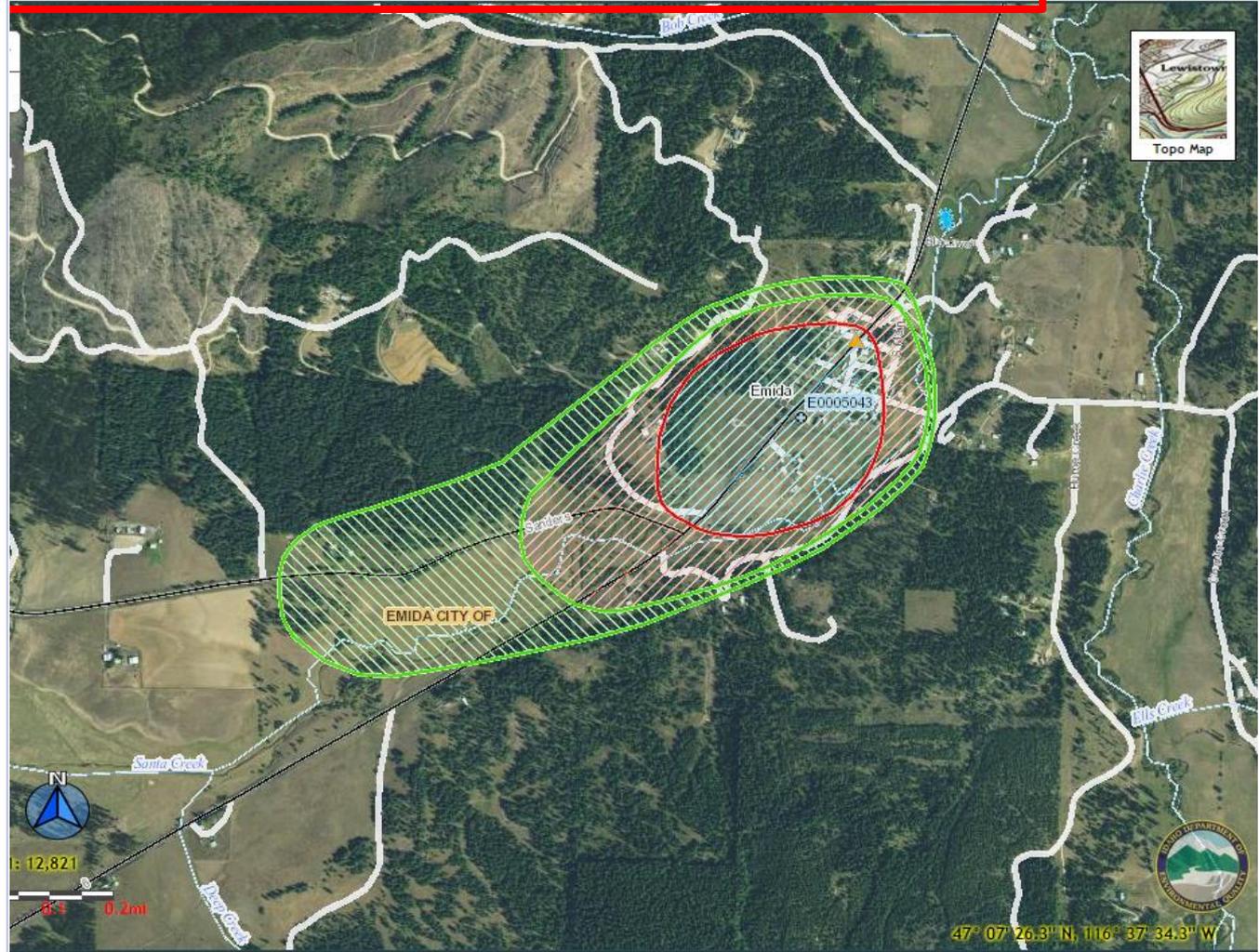
Zoom to Address (enter: street,city,state,zip)

1410 North
Hilton, Boise, Id, 83706

[Restriction of Liability for GIS Data](#)

[SWA ONLINE SEARCH PAGE](#)

Extent Zoom In Zoom Out Prev Extent Next Extent Pan Identify Select SWA Clear Print Map Help?



SRCID	PWS NO	PWS Name	Source Name	Aquifer	Acres	SWA Report
E0005043	1050009	EMIDA CITY OF	WELL #1	Unspecified	229	

SWA Search Map Legend

Search By County:
Kootenai

Select by Public Water System:
POST FALLS CITY OF-1280147

Search by PWS Name:

Search by PWS No:

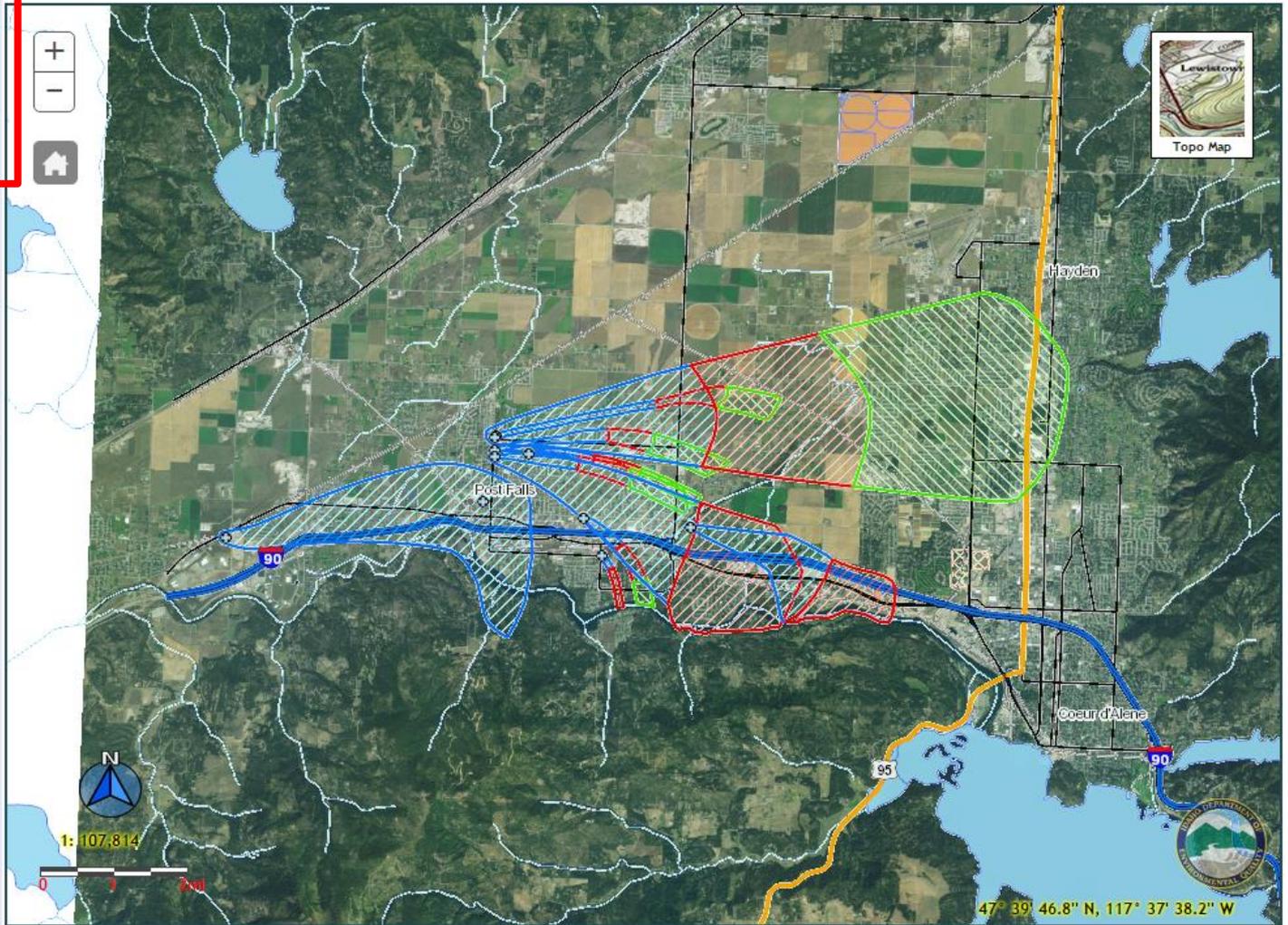
Zoom to Address (enter:street,city,state,zip)

1410 North
Hilton,Boise,Id,83706

[Restriction of Liability for GIS Data](#)

[SWA ONLINE SEARCH PAGE](#)

Full Extent Zoom In Zoom Out Prev Extent Next Extent Pan Identify Select SWA Clear Print Map Help?



SRCID	PWS NO	PWS Name	Source Name	Aquifer	Acres	SWA Report
E0005210	1280147	POST FALLS CITY OF	SPOKANE ST (2)	Rathdrum Prairie	346	
E0005211	1280147	POST FALLS CITY OF	SPOKANE ST (1)	Rathdrum Prairie	370	
E0005212	1280147	POST FALLS CITY OF	POLELINE (5)	Rathdrum Prairie	363	
E0005213	1280147	POST FALLS CITY OF	IDAHO ST (3)	Rathdrum Prairie	212	

SOURCE WATER PROTECTION PLANNING TEMPLATE

TOOLS TO DEVELOP A
PROTECTION STRATEGY

Source Water Protection Plan Template

Source Water Protection plans are the roadmap to protect a community's drinking water supply from potential contamination



Certification

- State Certification
 - Voluntary state certification process.
 - Submit Plan to DEQ for review.
 - State certification is granted if all basic elements are included in the Plan.
 - Community receives recognition from the State of Idaho.
 - Recertification every Five Years
- AWWA G300 Standard Certification

Components of a SWP Plan

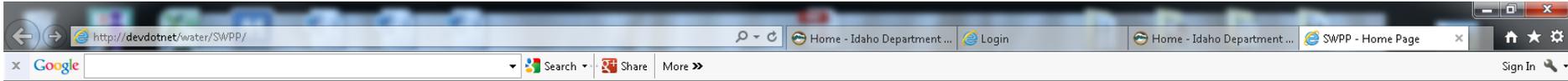
- Formation of a planning team
- Formalized vision statement and goals
- Characterization of the water source
- Identification and prioritization of potential contaminants
- Development of implementation strategies
- Plan for the future (contingency plan)
- Evaluation and revision

Online SWP Plan Template

Pulls information from existing sources including:

- **SDWIS**
 - PWS names
 - Source Type
 - Source names
 - # Connections
 - Population served
 - Location
 - Water quality data
- **SWA Online**
 - Delineations
 - PCI
 - Susceptibility scores
- **SWP Activity Guide**
 - Implementation activities

Register or Login



[Register](#) [Login](#)

IDAHO Department of Environmental Quality Source Water Protection Program

Welcome

Source water protection is a voluntary effort a community can implement to help prevent contamination of the source water that supplies its public water system. The effort may involve creating a source water (or drinking water) protection plan and implementing regulatory and/or non-regulatory management practices. Preventing contaminants from entering a public water system supply greatly benefits the community by minimizing the problems that can occur from contaminants in the water supply, such as increased health risks to the public, expanded drinking water monitoring requirements, additional water treatment requirements, and expensive environmental cleanup activities.

Login to your Account

[Forgot password?](#)

Remember me



Start New Plan or Edit Existing Plan



Department of Environmental Quality

Source Water Protection Program

[Home](#) [About Us](#)

Source Water Protection Plans

Show All

Create New Protection Plan

Date	Description	Status	Action	Implementation Tracking
Submitted on 2016-11-13	Protection plan for ABERDEEN CITY OF	Submitted		None
Created on 2016-11-04	Protection plan for City of Aberdeen	Draft		None

Contingency Plans

No contingency plans found.

Create New Contingency Plan

Select Sources



Department of Environmental Quality

Source Water Protection Program

Home > Protection Plan > Naming

Home About Us

Create New Protection Plan - City of Aberdeen (Step 1 of 10 - Getting Started)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Select the Public Water System name:

PWS Name:

ABERDEEN CITY OF

PWS Number:

ID6060001

How do you want your PWS name to appear within the plan?

City of Aberdeen

For example: the PWS Name in our database may be "KUNA CITY" and will display everywhere on the plan as "Protection Plan - KUNA CITY". If you want to display a more friendly name like "City of Kuna", please enter it here.

Select the sources that are to be included in this plan:

- Select All
- WELL #1
- WELL #2
- WELL #3
- WELL #4

SAVE

SAVE & CONTINUE

Identify Source Water Delineation Area

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

✓ WELL #1

✓ WELL #2

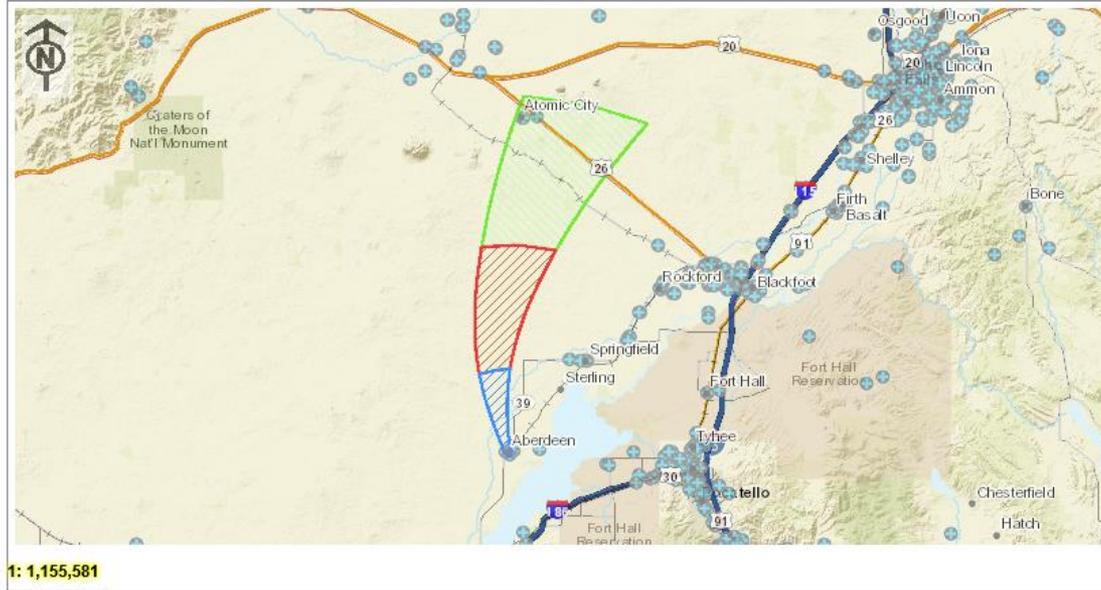
✓ WELL #3

✓ WELL #4

Previous Map

Overall Map

Next Map



0 5 10mi

Previous Map

Next Map

DEQ encourages communities to use the source water delineation as the area to be protected in their source water protection plan; however, the planning team may revise this area to include additional areas beyond the delineation to fit the needs of the community.

Would you like to use this Source Water Delineation (as shown above) as your protection area?

Yes No

PREVIOUS

SAVE

SAVE & CONTINUE

Identify Water Quality Issues

Create New Protection Plan -City of Aberdeen (Step 7 of 10 - Water Quality Issues)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

The planning team should review the regional water quality information as well as site specific information related to their source to identify any water quality concerns that should be addressed in the plan.

Regional Water Quality

DEQ has developed a list of degraded ground water areas in the state. This list focuses on nitrate and ranks the top 34 nitrate-degraded areas (referred to as nitrate priority areas) based on the severity of the degradation.

None of your sources are in a Nitrate Priority area.

Site Specific Water Quality Issues

The planning team should refer to the source water assessment report for each source to identify the susceptibility ratings for each source, and potential contaminants and land uses within the source water protection area. To review the source water assessment report, [Click Here](#).

In addition, local water quality sampling data should be reviewed to identify any existing water quality issues. A total of 90 analytes are regulated in public drinking water by EPA. Click on the links below to review water quality sampling data for each drinking water source to identify contaminants of concern.

The results will show any detection of a VOC, SOC or microbial, and any results over ½ the MCL for an IOC. If there is detection, a pathway for the contaminant already exists and thus may be considered a water quality concern.

- [WELL #1 :E0007319\(View water quality sampling data\)](#)
- [WELL #2 :E0007317\(View water quality sampling data\)](#)
- [WELL #3 :E0007318\(View water quality sampling data\)](#)
- [WELL #4 :E0007320\(View water quality sampling data\)](#)

Additional ground water data can be found using DEQ's [Nitrate Priority Area](#) and [Ground water Quality](#) interactive mappers.

Please provide information on any water quality issues or concerns with your water system as you would like them to appear in the plan:

PREVIOUS

SAVE

SAVE & CONTINUE

Review/Add Potential Contaminants

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

Please review the primary inventory listed below and add additional sources identified in the enhanced inventory:

[Add Additional Source\(s\) to the Enhanced Inventory>>](#)

Source Name: All PCI Category: All Contaminant Type: All TOT: All [Reset filter](#)

Source Name	PCI Category	PC Name	Contaminant Types	Time of Travel	Inventory Type
WELL #1	Deep Injection Well	Byron J Duffin	IOC, VOC, SOC, Microbe	0-3 year	GIS
WELL #1	Feedlot	At The Cross Bucking Bulls	IOC, Microbe	6-10 year	GIS
WELL #1	Landfill	Atomic City LF	IOC, VOC, SOC, Microbe	6-10 year	GIS
WELL #1	RCRA Site	ABERDEEN SPRINGFIELD CANAL CO	Site specific	0-3 year	GIS
WELL #1	RCRA Site	LANDVATTER MOTOR INC	Site specific	0-3 year	GIS
WELL #1	UST Site	ABERDEEN SD NO 58	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	ABERDEEN SPRINGFIELD CANAL CO	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	ABERDEEN STATION	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	BINGHAM CO-OP INC	VOC, SOC	0-3 year	GIS
WELL #1	UST Site	BUS STOP	VOC, SOC	0-3 year	GIS

1 2 3 4 5 ... » »»

10 Page 1 of 62

[Add Additional Source\(s\) to the Enhanced Inventory>>](#)

PREVIOUS

CONTINUE

Implementation Strategies

Create New Protection Plan -City of Aberdeen (Step 9 of 10 - Implementation Strategies)

[Getting Started](#)

[Planning Team](#)

[Vision](#)

[Goal](#)

[Water Delineation](#)

[Water Quality Issues](#)

[Potential Contaminants](#)

[Select Priority Issues](#)

Implementation Strategies

[Planning for the Future](#)

[Review Plan](#)

One of the most important planning team responsibilities is development and implementation of a source water protection strategy for the water system. This strategy outlines what protection measures will be used to protect source water. To insure implementation of the protection plan is successful, it is important to identify who is responsible, time frame for completion, and resources needed for implementation.

In the table below, select the potential contaminant of concern (these are the contaminants that were identified to include in the plan) or general protection area. For each potential contaminant of concern (these are the contaminants that were identified to include in the plan) or general protection area in the table below, select an implementation activity from the drop down list or select other to identify other protection activities.

Implementation Activity for Priority issues	Name of Person to complete this Activity	Date to be completed	Goal Addressed by this Activity	Additional Information	
Priority Issue: Feedlot					Add another measure
Pollution Prevent ▼	Jim Jones	03/10/2017	Goal 1 ▼		⊖
Priority Issue: UST Site					Add another measure
Secondary Conta ▼	Sara Mills	11/25/2016	Goal 2 ▼	provide \$100 grants for secondary containment	⊖
Priority Issue: Water Reuse Area					Add another measure
Green Business / ▼	jim	11/18/2016	Goal 1 ▼		⊖
Priority Issue: Education, Outreach, and Public Programs					Add another measure
Conditional Use f ▼	jim	11/11/2016	Goal 1 ▼		⊖
Priority Issue: Planning					Add another measure
Conditional Use f ▼	jim	11/18/2016	Goal 2 ▼		⊖
Priority Issue: Feedlot					Add another measure
Inspections and T ▼	jiom	11/16/2016	Goal 1 ▼		⊖
Priority Issue: UST Site					Add another measure
Conditional Use f ▼	jim	11/18/2016	Goal 2 ▼		⊖

Planning for the Future



Department of Environmental Quality

Source Water Protection Program

Home > Protection Plan > Planning Future

Home About Us

Create New Protection Plan -City of Aberdeen (Step 10 of 10 - Planning for the Future)

Getting Started

Planning Team

Vision

Goal

Water Delineation

Water Quality Issues

Potential Contaminants

Select Priority Issues

Implementation Strategies

Planning for the Future

Review Plan

New Drinking Water Sources

Does the water system anticipate a need for the development of a new drinking water source in the next five years?

Yes No

Contingency Plan

A contingency plan is a blueprint outlining roles and responsibilities in the event that the water system experiences a disruption due to contamination, loss of power, natural disasters such as drought or flooding, or other circumstances where it cannot provide services.

Does the system have an approved Emergency Response Plan?

Yes No

Does the system have an approved and updated Contingency Plan that includes the following required elements?

- Potential emergencies;
- Key contact personnel;
- Alternate sources of drinking water;
- Notification procedures
- Where copies will be located

Yes No

PREVIOUS

SAVE

SAVE & CONTINUE

Review and Submit Plan



Home > Protection Plan > Review Plan

Home About Us

Create New Protection Plan -City of Aberdeen (Review & Submit the Plan)

SOURCE WATER

The Team Coordinator for the City of Aberdeen source water protection planning team is Amy Williams . The Team Coordinator is responsible for planning future team meetings, coordinating implementation items identified in the plan, and serving as the primary contact. For more information on this plan, please contact Amy Williams at amy.williams@deq.idaho.gov / (208) 373-0115

(Optional narrative) Additional information on the planning team / meeting / process / etc.

II. Components of the Plan

City of Aberdeen developed this source water protection plan in accordance with DEQ's state source water protection certification

CONTINGENCY PLANNING TEMPLATE

TOOLS TO PREPARE FOR AN EMERGENCY

Contingency Plan Template

IDAHO Department of Environmental Quality
Source Water Protection Program

Home About Us

Source Water Protection Plans

Show All

+ Create New Protection Plan

Date	Description	Status	Action	Implementation Tracking
Created on 2016-11-13	Protection plan for City of Ammon	Draft	 	None
Submitted on 2016-11-13	Protection plan for ABERDEEN CITY OF	Submitted		None
Created on 2016-11-04	Protection plan for City of Aberdeen	Draft	 	None

Contingency Plans

No contingency plans found.

+ Create New Contingency Plan



Select PWS

Create New Contingency Plan - ABERDEEN CITY OF (Step 1 of 13 - Select PWS)

Select PWS

System Information

System Location

Responsible Persons

Potential Threats

Emergency Procedures

Emergency Meeting Location

Contact List

Chain of Command

Public Notification

Responsible Actions for Specific Events

Alternative Water Supplies

Review and Submit

Select the Public Water System(PWS) name:

PWS Name:

PWS Number:

How do you want your PWS name to appear within the plan?

For example: the PWS Name in our database may be "KUNA CITY" and will display everywhere on the plan as "Protection Plan - KUNA CITY". If you want to display a more friendly name like "City of Kuna", please enter it here.

Potential Threats

Potential Emergency Situations and Threats	Probability of Risk	Comments	Include in Plan
Security Threats (Vandalism, Terrorism)	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Bacterial Contamination	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Chemical Spill, Leaching	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Power Outage	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Pump Failure	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Treatment Failure	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Flood	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Fire	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>

[Alternative water Supplies](#)

[Review and Submit](#)

Freezing	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Windstorm	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Earthquake	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Depressurization	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Transmission Line Break	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Reduction or Loss of Hook	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>
Other <input type="text"/>	<input type="text"/> ▼	<input type="text"/> ⌵	<input type="checkbox"/>

CLICKING THE "Add Additional..." ADDS ADDITIONAL ROW ABOVE=>

[Add Additional Potential Threat](#)

Emergency Procedures

[Home](#) > [Create New Contingency Plan](#)

Create New Contingency Plan - City of Kuna (Step 6 of 13 - Emergency Procedures)

[Select PWS](#)

Emergency Procedures: PLACEHOLDER TEXT - Contingency Plans help a water system reduce its vulnerability to emergencies by identifying action steps to follow if a primary source of drinking water becomes contaminated, the flow of water is disrupted, or there is evidence of accidental or malicious intrusion and they establish procedures.

System Specific Emergency Disinfection Procedures	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
System Specific Flushing Program	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Personnel Safety Plan	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Operation and Maintenance Manual	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Asset Management Plan	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>

[Review and Submit](#)

Overall Process Flow Diagrams	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Site Plans and Facility "As Built" Engineering Drawings	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Sample Site Plan(s)	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Site Staffing Rosters and Employees' Duties and Responsibilities	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>
Chemical Handling and/or Storage Facility and Release Impact Analysis	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="text"/>

Emergency Meeting Location

john@doe.com Settings Log off

IDAHO Department of Environmental Quality
Source Water Protection Program

Home About Us Administration

Home > Create New Contingency Plan

Create New Contingency Plan - City of Kuna (Step 7 of 13 - Emergency Meeting Location)

Please identify the primary meeting place in the event of an emergency:

Please upload a map showing emergency meeting location (.jpg, .png, .bmp, or .pdf only, please):

Upload File:

List of Uploaded Documents	Size (MB)	
ProtectionArea.pdf	2MB	

- Select PWS
- System Information
- System Location
- Responsible Persons
- Potential Threats
- Emergency Procedures
- Emergency Meeting Location**
- Contact List
- Chain of Command
- Public Notification
- Responsible Actions for Specific Events
- Alternative Water Supplies
- Review and Submit

Contact List



Create New Contingency Plan - City of Kuna (Step 8 of 13 - Contact List)

Public Water System Contacts <= EDITABLE GRID BELOW WITH A BUNCH OF TEXTBOXES when EDIT IS CLICKED

- Select PWS
- System Information
- System Location
- Responsible Persons
- Potential Threats
- Emergency Procedures
- Emergency Meeting Location
- Contact List**
- Chain of Command
- Public Notification
- Responsible Actions for Specific Events
- Alternative Water Supplies
- Review and Submit

Public Water System Contacts	Contact Name	E-mail	Phone Numbers	
Administrative Contact	John Doe	jhondoe@gmail.com	Work: (234) 234-3456 Mobile: (456) 456-7879 Emergency: (897) 354-2342	Edit
Owner Contact	Albert Einstein	AE@gmail.com	Work: (564) 345-2343 Mobile: (234) 345-1234 Emergency: (234) 456-9876	Edit
Designated Operator In Charge	Stephen King	sking@gmail.com	Work: (564) 345-2343 Mobile: (234) 345-1234 Emergency: (234) 456-9876	Edit
Operator	Larry King	Lking@gmail.com	Work: (234) 234-3456 Mobile: (456) 456-7879 Emergency: (897) 354-2342	Edit
Emergency Contact	Brain Lara	lara@gmail.com	Work: (564) 345-2343 Mobile: (234) 345-1234 Emergency: (234) 456-9876	Edit
Sampler	Alan Joseph	alanj@gmail.com	Work: (234) 234-3456 Mobile: (456) 456-7879 Emergency: (897) 354-2342	Edit
Financial	Michale Jordan	MJ@gmail.com	Work: (564) 345-2343 Mobile: (234) 345-1234 Emergency: (234) 456-9876	Edit
Legal	Stephen Curry	Scurry@gmail.com	Work: (234) 234-3456 Mobile: (456) 456-7879	Edit

Chain of Command

john@doe.com Settings Log off

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Responsibilities During an Emergency	Name and Title	Phone Numbers
Notify System Customers	Luis Saurez (Operator) ▼	Work: (564) 345-2343 Mobile: (234) 345-1234 Emergency: (234) 456-9876
Make Repairs	Wayne Rooney (Maintenance) ▼	Work: (234) 234-3456 Mobile: (456) 456-7879 Emergency: (897) 354-2342

[Add Additional Contact](#)

Chain of Command

- [Public Notification](#)
- [Responsible Actions for Specific Events](#)
- [Alternative Water Supplies](#)
- [Review and Submit](#)

Notify System Customers	Luis Saurez (Operator) ▼	Mobile: (234) 345-1234 Emergency: (234) 456-9876
Make Repairs	Wayne Rooney (Maintenance) ▼	Work: (234) 234-3456 Mobile: (456) 456-7879 Emergency: (897) 354-2342

[Add Additional Contact](#)

[Back](#)

[Save & Continue](#)

Public Notification



Home > Create New Contingency Plan

Create New Contingency Plan - City of Kuna (Step 10 of 13 - Public Notification)

Public Notification: PLACEHOLDER TEXT - Contingency Plans help a water system reduce its vulnerability to emergencies by identifying action steps to follow if a primary source of drinking water becomes contaminated.

Identify who is responsible for tracking violations:

Work: (564) 345-2343
 Luis Saurez (Operator) Mobile: (234) 345-1234
 Emergency: (234) 456-9876

Identify who is responsible for notifying customers:

Same person as above Work: (564) 345-2343
 Luis Saurez (Operator) Mobile: (234) 345-1234
 Emergency: (234) 456-9876

How will customers (including vulnerable populations) be notified ? (Select all that apply)

- Phone Calls (Include location of phone list)
- E-mail (Include location of email list)
- Media Release
- Door to Door
- Other

Public Notification Requirements

Notification	When ?	Under what circumstance ?	How ?	Who ?
Tier 1	Within 24 Hrs	All violations with significant potential to cause serious health effects due to short term exposure. Examples include: • MCL's and monitoring violations for fecal coliforms/E-coli	Radio, television, posting or hand delivery, or method approved by primary agency.	All customers • Consider vulnerable populations
Tier 2	Within 30 days and repeated every three months until violation is resolved	All other violations with the potential to cause serious health effects. Examples include: • MCL, MRDL treatment technique violations (except where tier 1 is required). • Monitoring and testing procedure violations	Community water systems: email or hand delivery and other reasonable methods. Non-community water systems: posting, hand	All customers • Consider vulnerable populations

- Select PWS
- System Information
- System Location
- Responsible Persons
- Potential Threats
- Emergency Procedures
- Emergency Meeting Location
- Contact List
- Chain of Command
- Public Notification**
- Responsible Actions for Specific Events
- Alternative Water Supplies
- Review and Submit

Responsible Actions for Specific Events

Event	Specific actions to take	Who should be notified?
Security Threats (Vandalism, Terrorism)  SHOW ONLY SELECTED ONES. ABOVE ICON APPEARS ONLY IF POPOVER INFO PRESENT		
Bacterial Contamination		
Chemical Spill, Leaching		
Power Outage		

[Alternative water supplies](#)

[Review and Submit](#)

Pump Failure

Treatment Failure

Flood

Alternative Water Supplies

[Home](#) > [Create New Contingency Plan](#)

Create New Contingency Plan - City of Kuna (Step 12 of 13 - Alternative Water Supplies)

[Select PWS](#)

[System Information](#)

[System Location](#)

[Responsible Persons](#)

[Potential Threats](#)

[Emergency Procedures](#)

[Emergency Meeting Location](#)

[Contact List](#)

[Chain of Command](#)

[Public Notification](#)

[Responsible Actions for Specific Events](#)

Alternative Water Supplies

[Review and Submit](#)

Alternative Water Supplies: Identify alternative water supplies that may be available if your supply becomes unexpectedly disrupted or contaminated. Short term (hours to days) and long term (weeks to months) must be identified. To do this, you need to have comprehensive understanding of your current water supply, your water distribution system, and your water system demand requirements. You should clearly understand the location and capabilities of other regional water systems, including available excess capacity, ease of connection to your distribution system, and interconnection agreements that may be in place.

Alternative supplies can include emergency sources and emergency interconnections with other public water systems. They can also include the temporary use of bottled water or licensed water haulers.

Emergency Sources

Note : Approval must be obtained from the regulating agency before putting any emergency source or alternative supply of water into service.

Emergency Source Name	Availability - active or inactive connection to system, water quality sampling, production amount and how soon it can be available
Emergency Source 1	
Emergency source 2	

[Add Additional Source](#)

Short Term Alternative Supplies - Water Suppliers

List bottled water suppliers or licensed water haulers that may be able to deliver bulk water.

Vendor or supplier	Phone No.	Availability - production amount and how soon it can be available	Is it safe to drink?
			<input type="radio"/> Yes <input type="radio"/> No
			<input type="radio"/> Yes <input type="radio"/> No

[Add Additional Source](#)

Short Term Alternative Supplies - Neighbouring Water Systems

Water system within one-quarter mile	Feasibility of connection?	Has any contact been made with the system?
	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No

[Add Additional Source](#)

Review and Export

[Home](#) > [Create New Contingency Plan](#)

Create New Contingency Plan - City of Kuna (Step 13 of 13 - Review and Submit)

[Select PWS](#)

[System Information](#)

[System Location](#)

[Responsible Persons](#)

[Potential Threats](#)

[Emergency Procedures](#)

[Emergency Meeting Location](#)

[Contact List](#)

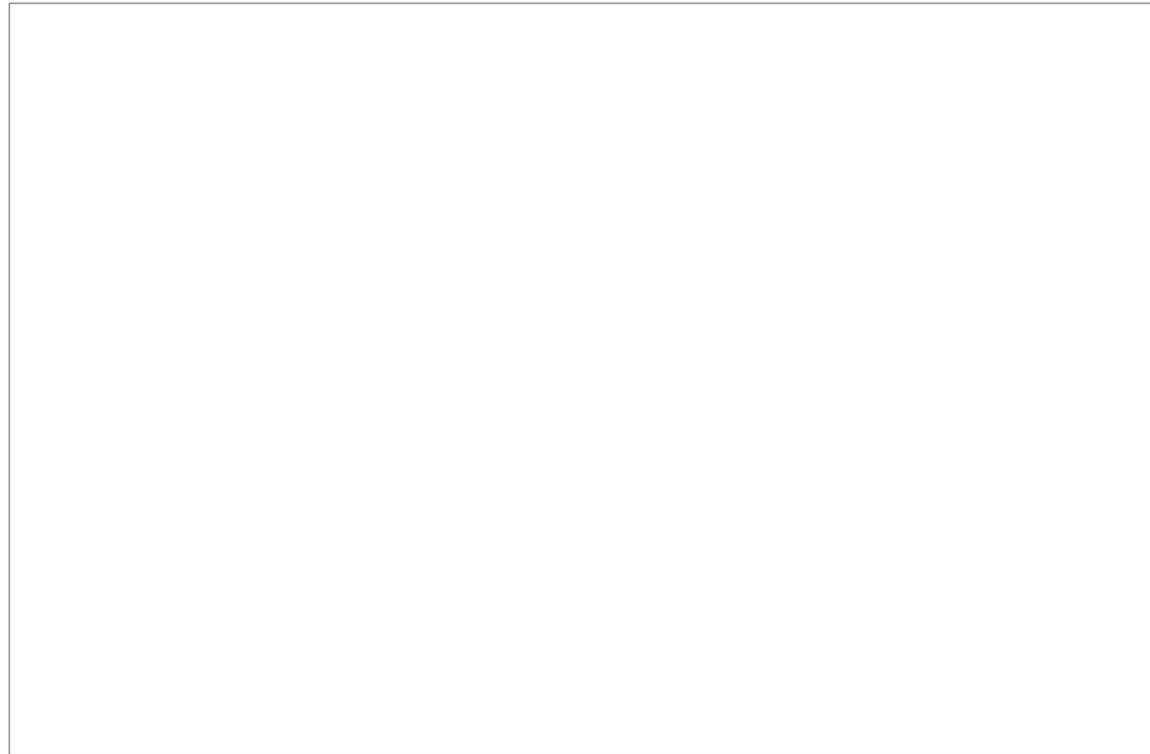
[Chain of Command](#)

[Public Notification](#)

[Responsible Actions for Specific Events](#)

[Alternative Water Supplies](#)

Review and Submit



[Back](#)

[Save](#)

[Submit Plan for Certification](#)

DEQ SOURCE WATER ACTIVITY GUIDE

TOOLS TO IDENTIFY
PROTECTION ACTIVITIES

Purpose

The *Source Water Protection Guide* (Guide) is a tool for identifying potential sources and types of contamination that could threaten drinking water sources and **provides possible protection activities** that public water systems, local governments, businesses, and individuals can implement to better protect source water from contamination.

About DEQ

[Home](#) » [Water Quality](#) » [Source Water](#) » [Activity Guide](#)

Contact Us

Activity Guide

Regional Offices & Issues

The Source Water Protection Guide (Guide) identifies potential sources and types of contamination that could threaten public drinking water sources (source water) and presents protection activities that can be implemented to better protect source water from contamination.

News & Public Comments & Events

Potential contaminant sources identified in the Guide are grouped into four categories, agricultural/rural, commercial/ industrial, residential/municipal, miscellaneous, and include various facilities, land uses, and environmental conditions that have the potential to contaminate ground water and surface water. The Guide provides a summary of each contaminant source and its associated contaminant types, protection activities, and additional resources.

Air Quality

Water Quality

Planning

Drinking Water »

Ground Water »

Source Water »

Surface Water »

Wastewater »

Grants & Loans »

Source water protection activities can include nonregulatory and regulatory approaches. Nonregulatory or voluntary management practices and education and outreach can be effective long term by changing the behaviors and practices of those in the source water protection area. Nonregulatory protection strategies are usually most effective when combined with regulatory approaches, such as land-use regulations, permitting, or other public policy strategies. The Guide includes both regulatory and nonregulatory protection activities that can help to protect source water. The activities listed are not comprehensive but provide a starting point for planning efforts.

Waste Mgmt & Remediation

To get started, use the Quick Select menus below to navigate through the Guide, learn about potential contaminant sources, and identify possible protection activities to minimize potential threats to source water. To learn more about a specific drinking water source and its susceptibility to contamination, read your system's [source water assessment report](#).

INL Oversight

Permitting

Quick Select

Use any of the following drop-down menus to navigate through the guide. Choosing a potential contaminant source category from the drop-down menu will narrow your potential contaminant source choices. Choosing a protection activity category from the drop-down menu will narrow your protection activity choices.

Pollution Prevention

Contaminant Type

Potential Contaminant Source Category

Potential Contaminant Source

Assistance & Resources

Protection Activity Category

Protection Activity

Laws, Rules, Etc.

Staff Contact

Source Water Program Coordinator

Amy Williams
 DEQ State Office
 Water Quality Division
 1410 N. Hilton
 Boise, ID 83706
 (208) 373-0115
amy.williams@deq.idaho.gov

Related Pages

[Source Water in Idaho](#)

[Source Water Protection in Idaho](#)

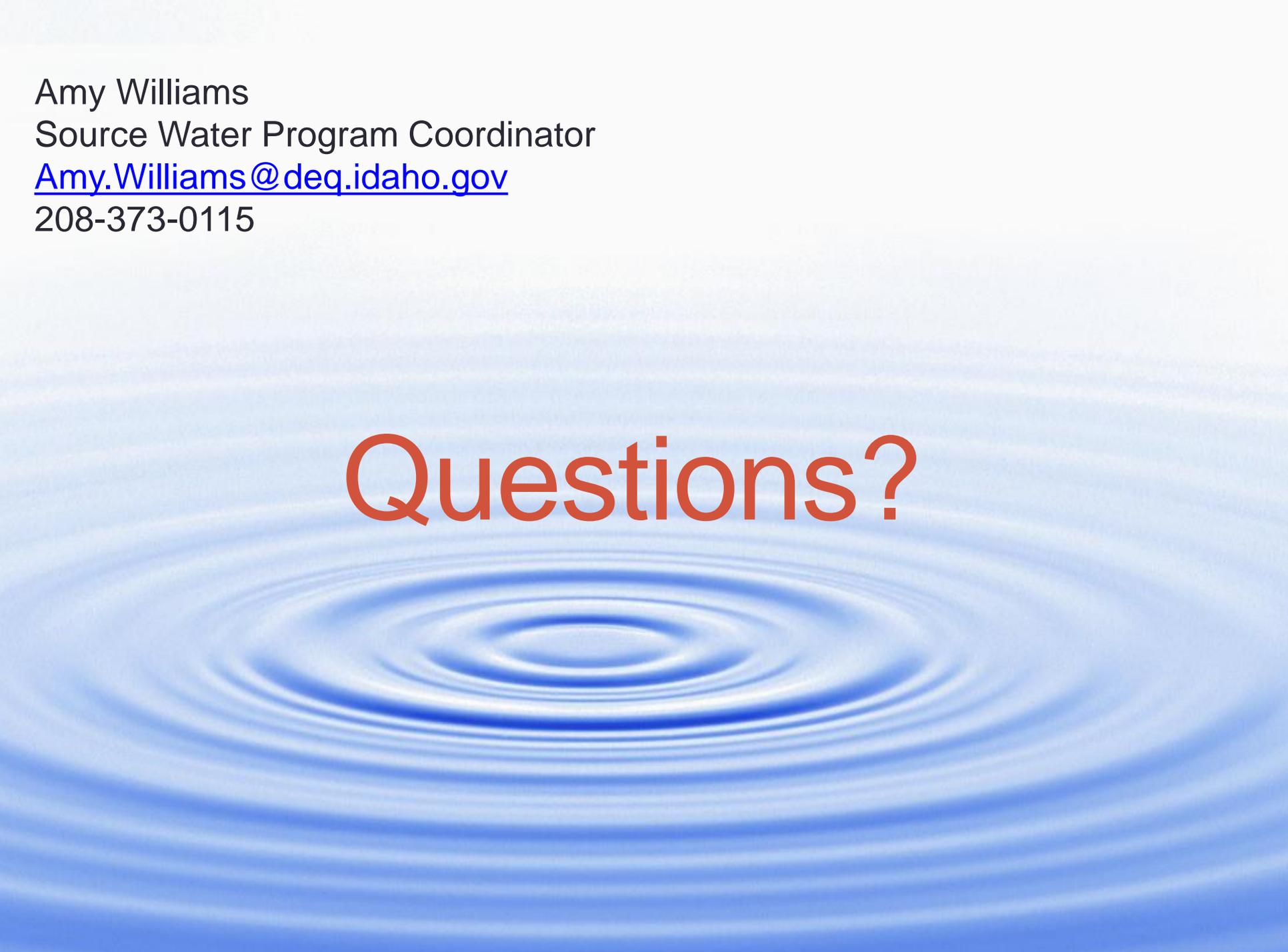
[Source Water Assessments in Idaho](#)

DEQ Staff Resources

- Technical assistance
- Assistance developing source water protection plans
- Assistance with implementation activities
- Educational materials and resources



Amy Williams
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Amy.Williams@deq.idaho.gov
208-373-0115



Questions?