

Water Right Permits for Aquifer Recharge and Recovery in Utah

Utah Division of Water Rights

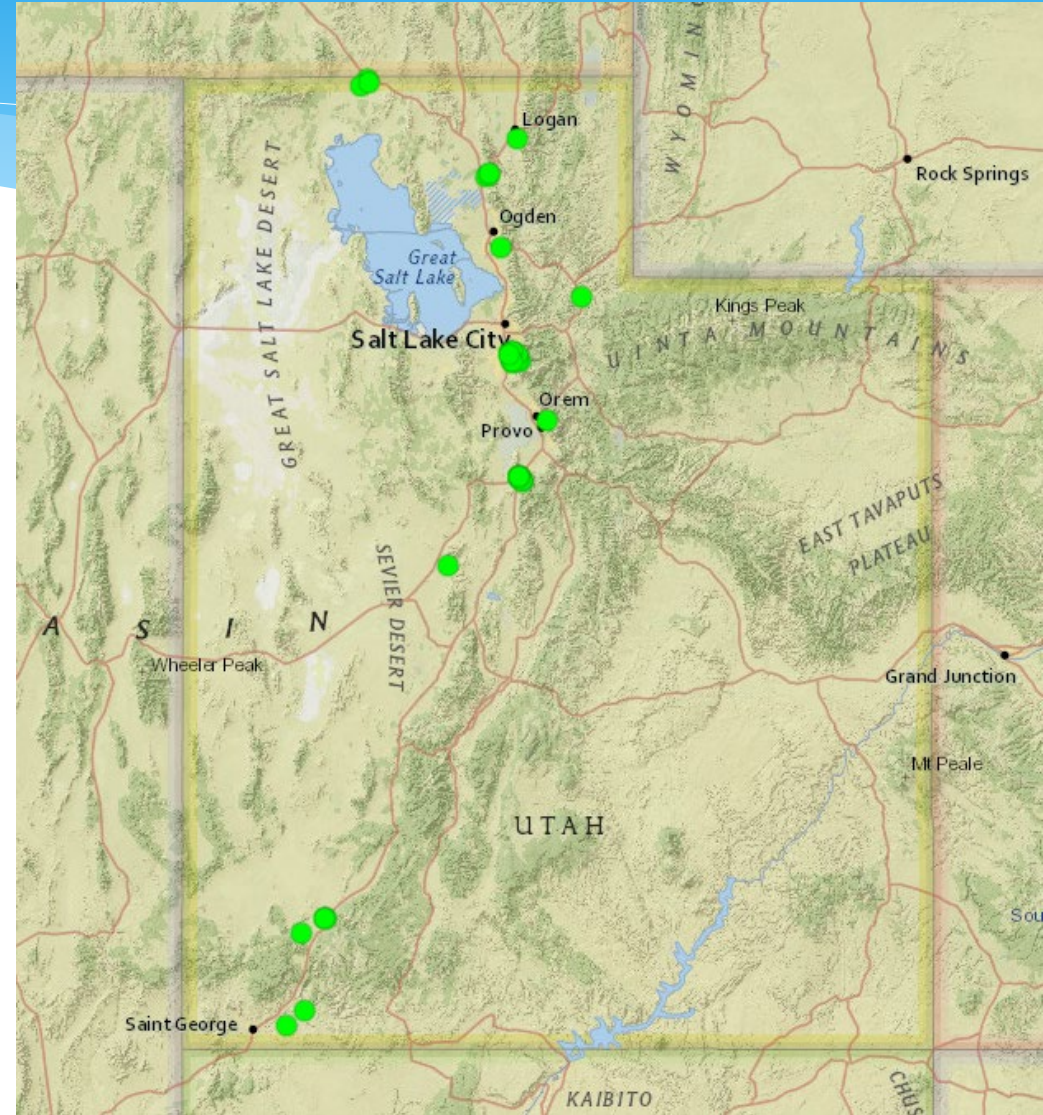
9/29/2021

Overview

- ❑ Current Projects
- ❑ Recharge Permit Requirements
- ❑ Recovery Permit Requirements
- ❑ Storage Accounting

Current Projects

- Jordan Valley WCD
- Brigham City
- Washington County WCD
- Leamington Town
- Weber Basin WCD
- Santaquin City
- Summit Creek Irrigation and Canal Company
- Central Iron County WCD
- Cedar City
- RFL Deep Creek, LLC
- Sandy City
- Provo City



Legislation

73-3b Groundwater Recharge and Recovery Act

- Recharge Permit
- Recovery Permit

Recharge Application

- Applicant information
- Detailed description of the project
- Evidence of water quality permits
- Plan of operation
- Valid water right
- Fee

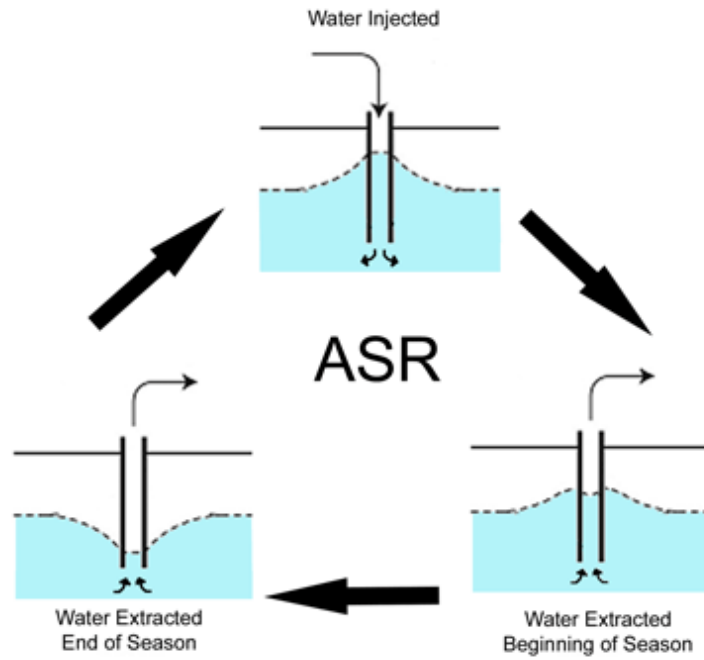
FEE SCHEDULE				
Flow-CFS		Acre-Feet		FEE
More Than	Not to Exceed	More Than	Not to Exceed	
0	0.1	0	20	\$ 150
0.1	0.5	20	100	\$ 200
0.5	1.0	100	500	\$ 250
1.0	2.0	500	1,000	\$ 300
2.0	3.0	1,000	1,500	\$ 350
3.0	4.0	1,500	2,000	\$ 400
4.0	5.0	2,000	2,500	\$ 430
5.0	6.0	2,500	3,000	\$ 460
6.0	7.0	3,000	3,500	\$ 490
7.0	8.0	3,500	4,000	\$ 520
8.0	9.0	4,000	4,500	\$ 550
9.0	10.0	4,500	5,000	\$ 580
10.0	11.0	5,000	5,500	\$ 610
11.0	12.0	5,500	6,000	\$ 640
12.0	13.0	6,000	6,500	\$ 670
13.0	14.0	6,500	7,000	\$ 700
14.0	15.0	7,000	7,500	\$ 730
15.0	16.0	7,500	8,000	\$ 760
16.0	17.0	8,000	8,500	\$ 790
17.0	18.0	8,500	9,000	\$ 820
18.0	19.0	9,000	9,500	\$ 850
19.0	20.0	9,500	10,000	\$ 880
20.0	21.0	10,000	10,500	\$ 910
21.0	22.0	10,500	11,000	\$ 940
22.0	23.0	11,000	11,500	\$ 970
23.0	and above	11,500	and above	\$1000

Water Quality Permits

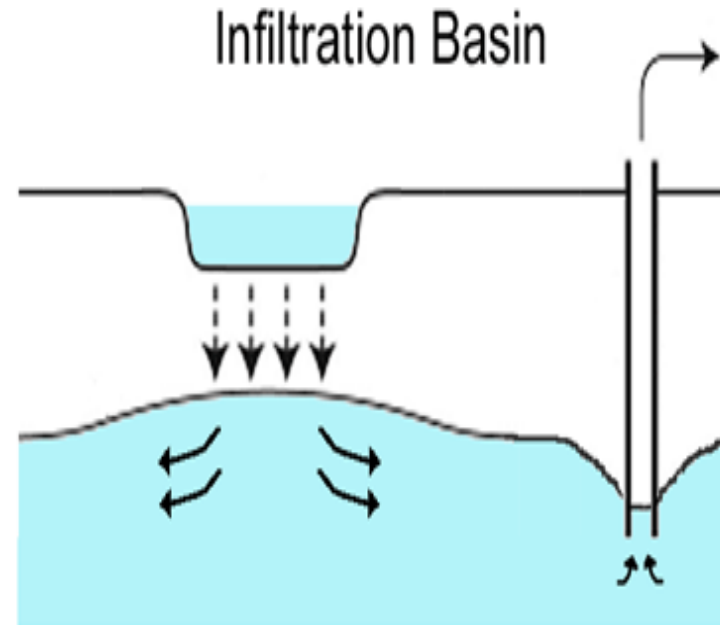
- * Underground Injection Control (UIC) program
- * Safe Drinking Water Act (SDWA)

Types of Projects

Injection Wells

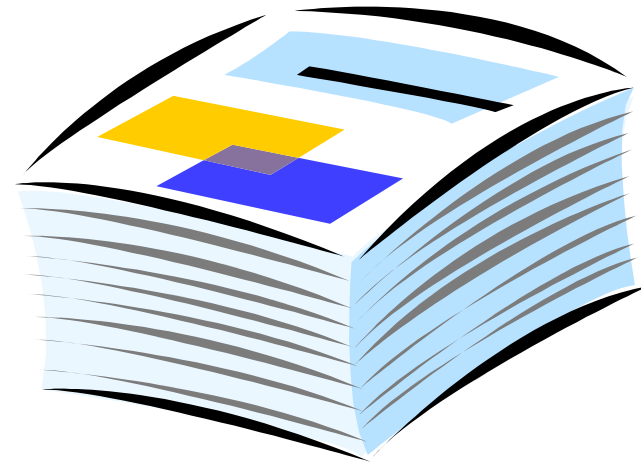


Infiltration Ponds



Plan of Operation

- * Detailed description of the project
- * Design capacity
- * Monitoring program
- * Duration of the project
- * Groundwater study
 - * Area of hydrologic impact
 - * Hydrologic feasibility
 - * Harm to land or existing water rights
 - * Recoverable water
 - * Financial and technical capability



Valid water Right

73-3b-106. Water right for recharged water -- Change of use of recovered water.

(1) A person proposing to artificially recharge water into an aquifer must have:

(a) a valid water right for the water proposed to be recharged; or

(b) an agreement to use the water proposed to be recharged with a person who has a valid water right for the water proposed to be recharged.

(2) A person who holds a recovery permit may use or exchange recovered water only in the manner in which the water was permitted to be used or exchanged before the water was artificially recharged, unless a change or exchange application is filed and approved pursuant to Section 73-3-3 or 73-3-20, as applicable.

Recovery Application

- Applicant Information
- Consent from Owner of Recharge Permit
- Recovery Well Description
 - Location
 - Depth and Diameter
 - Design Pumping Capacity
- Fee (\$2,500.00)
- Storage Account Parameters

- Multiple

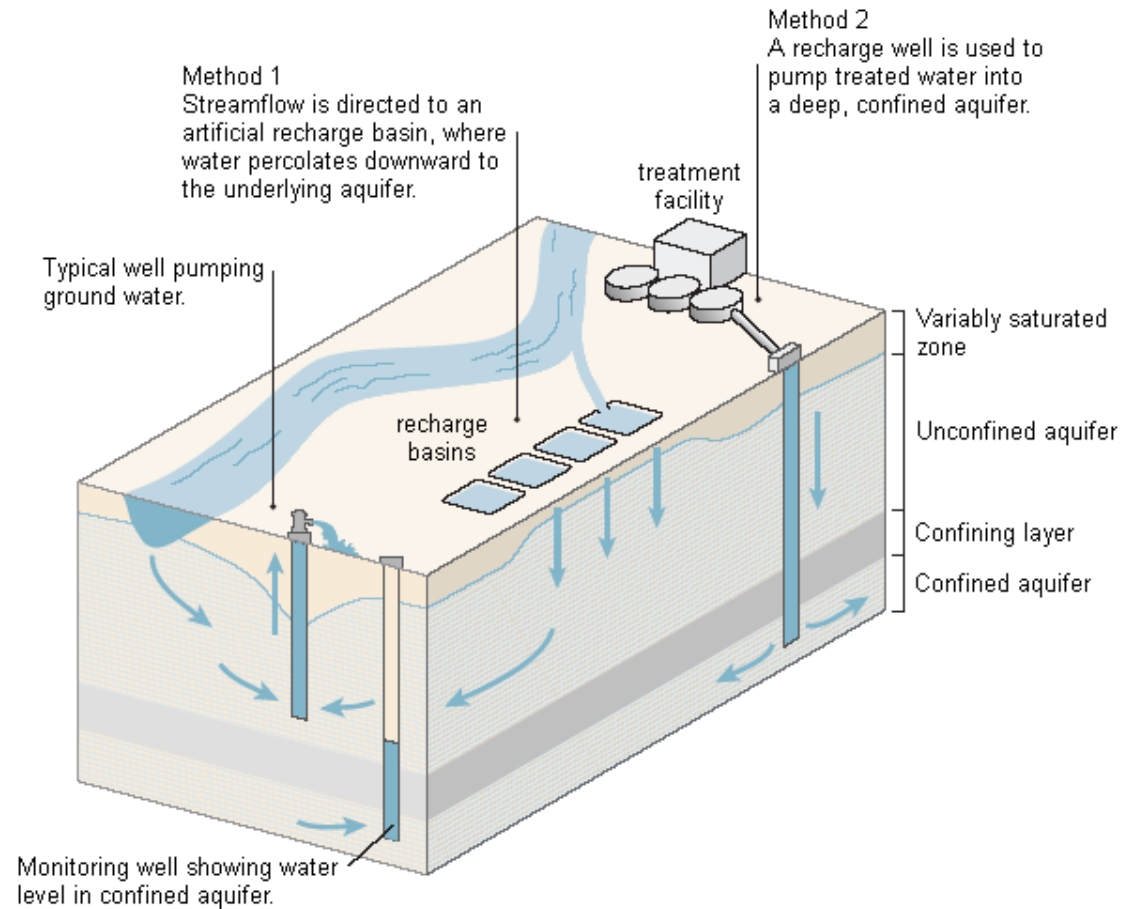
Permit Conditions

- * Proof Time Frame– 5 years
- * Monitoring Program
- * Reports on Water Stored and Recovered
- * Reports on Water Quality
- * Storage Accounts
- * Annual Fee
- * Modification of recharge or recovery permits

Storage Accounts

Parameters:

- * Initial Wait Period
- * Loss Factor
- * Month Of Loss



Storage Accounts

Parameters:

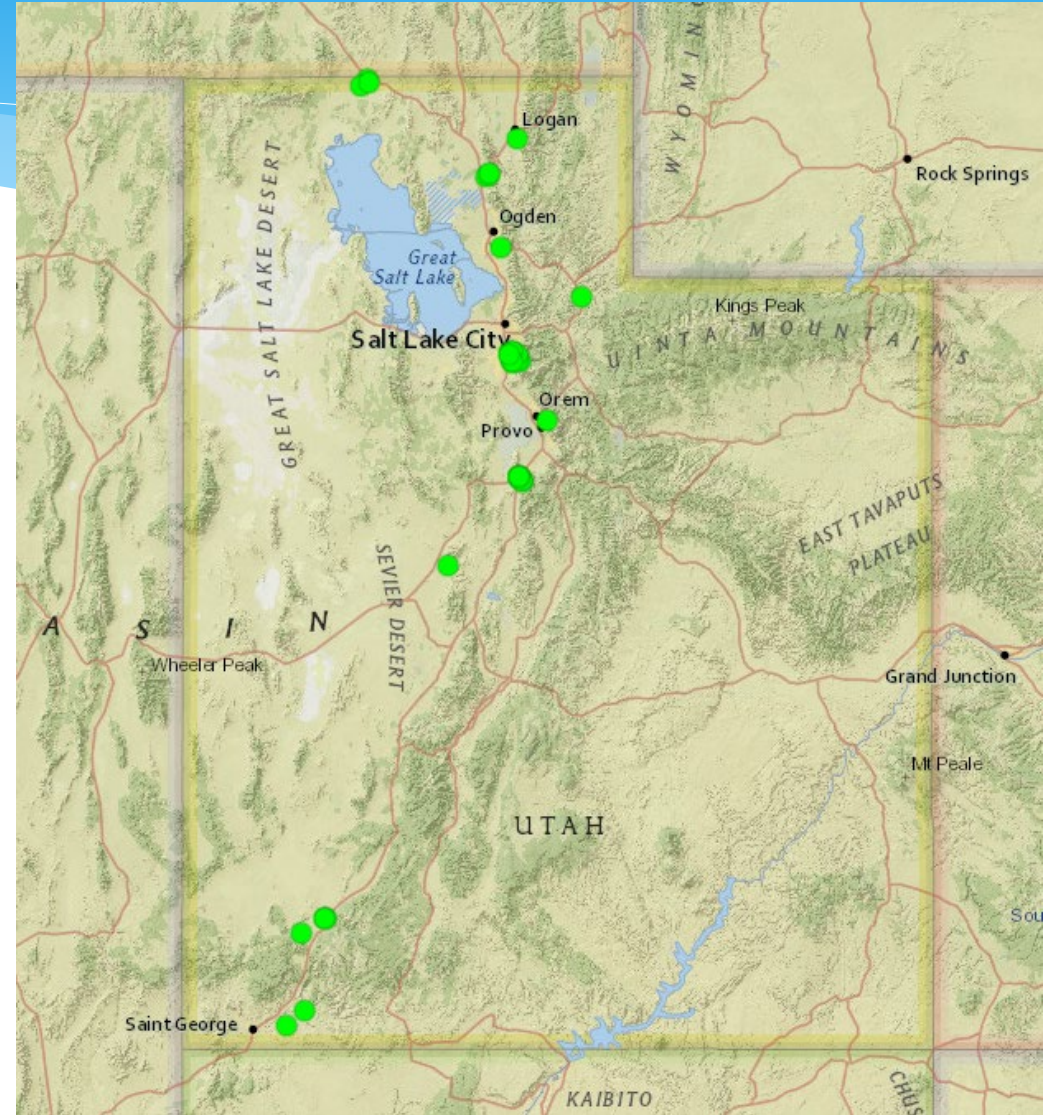
- * Initial Wait Period
- * Loss Factor
- * Month Of Loss

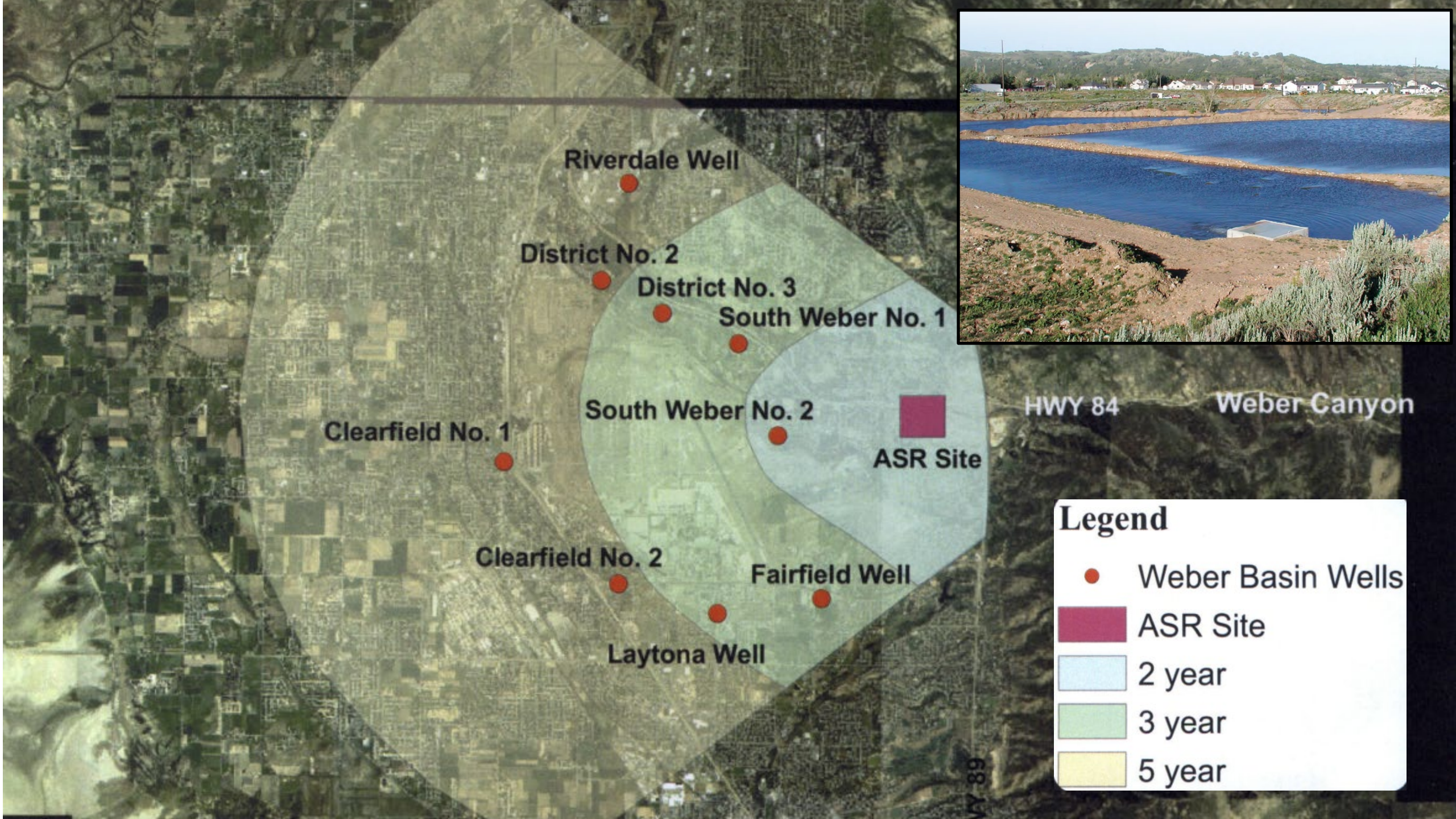
Considerations:

- * Type of Recharge
 - * Water Balance
- * Location of Recovery
- * Aquifer Parameters
 - * Confined vs unconfined
 - * Hydraulic Conductivity

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Riverdale Well

District No. 2

District No. 3

South Weber No. 1

Clearfield No. 1

South Weber No. 2

ASR Site

Clearfield No. 2

Fairfield Well

Laytona Well

HWY 84

Weber Canyon

Legend

● Weber Basin Wells

■ ASR Site

□ 2 year

□ 3 year

□ 5 year







Questions

www.waterrights.utah.gov