



STREAM BYPASS FLOW STUDY

25_STRM BYPASS_STUDY_01

*St. Vrain Creek
Ralph Price Reservoir (Button Rock)
to
Supply Irrigating Ditch Diversion*

Prepared For:
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1.0 INTRODUCTION

To address concerns of upstream flows in the St. Vrain Creek at the eastern end of Lyons, the Town of Lyons (Town) retained Grouse Mountain Environmental Consultants (Grouse Mountain) to conduct a stream bypass flow study. The Town is located at the confluence of the North and South St. Vrain Creeks where water has been historically utilized for a number of uses, including recreational, agriculturally, and domestically. During certain times of the year, water flows have been low. Low flow conditions may cause warmer seasonal water temperatures and generally reduced water availability.

The study area included portions of the St. Vrain Creek between the Ralph Price Reservoir (Button Rock) to the Supply Irrigating Ditch Diversion. Please find **Figure 1.0** for the general project location found in **Appendix A (Maps)**. Grouse Mountain conducted a field survey to identify potential bypass structures that divert water without sufficient infrastructure and/or measurement devices. Following the field survey, Grouse Mountain compiled a summary of all intervening diversions in the study area to include specifics on bypass capacity and flow measurement opportunities. The goal of the study is to aid in identifying the next steps to secure better flows for environmental habitat, maintain or improve recreation and fishery flows, and to aid in the integration of downstream discharges.

1.1 Historical Research & Site Planning

Grouse Mountain accessed the Colorado Division of Water Resources (CO DWR) records and GIS Map Viewer to identify surface water and shallow well diversion structures and water rights within the adjacent lands to the project area. Grouse Mountain applied a cutoff of two hundred (200) feet for groundwater well depth to qualify as a shallow well with the potential to impact near surface water flows within the St. Vrain Creek. In addition to CO DWR available data, our research team used recent aerial imagery available from the CO DWR GIS Map Viewer, Google Earth, and the Town's assessor ArcGIS viewer to identify evidence of diversion structures not found in the CO DWR records or GIS Map Viewer. Please refer to **Figures 1.1 and 1.2** found in **Appendix A (Maps)** for a display of the water rights identified as possible diversions and various permitted structures.

1.2 Field Reconnaissance

Using a GPS equipped tablet with the identified existing and potential diversion structure map, Grouse Mountain conducted field reconnaissance on May 23rd and 24th of 2025. Mrs. Jess Fortner with Grouse Mountain collected field data as she traversed the St. Vrain creek. Mrs. Fortner was accompanied by Mr. Aaron Caplan for portions of the field reconnaissance.

The collected field data included diversion structure type, measurements for determining capacity, flow measurement devices (if any), condition of diversion, potential water use, and photographic documentation. The field data was matched to the respective known or potential CO DWR water rights or structures and parcel/land ownership, where possible. Mrs. Fortner communicated with landowners, when possible, to collect additional water use details.

Please refer to **Appendix C (Photo Log)** for specific diversion details and notes. **Figure 1.1** in Appendix A provides locations of bypass diversion locations and provides numerical indicators to match the respective photos found in Appendix C (Photo Log).

2.0 SUMMARY

Mr. Clint Beck, P.E. with Grouse Mountain conducted a regulatory and general infrastructure review of the field collected data and photo log. Upon review and discussion of observations with Mrs. Fortner, it was apparent the following common conditions were present:

- There were numerous instances of direct pump placement into the St. Vrain creek without an apparent flow measurement device. In some instances, water rights will allow demonstration of compliance with water volume limits by assuming the pump is running at capacity and multiplying this value by the pump run time hours. However, field efforts failed to find a pump hour meter directly on the pump casing during the field observations.
- There were instances where adjacent pools were constructed. These could serve as a landing spot for recreational purposes or other creek access means, however surface indicators were noted that could allow for temporary pump and line utilization at some of these locations as noted in the photo log.
- Shallow wells were noted in the immediate vicinity of the St. Vrain creek. A few of these wells were observed as not having visible flow meters installed to track water use.
- Numerous weirs were present, but without measuring or logging devices. The photo log found in **Appendix C** and the following **Table 1.1** provides measurements and conditions of the weirs. Most of the weirs are constructed using natural means and require a defined flume/weir crossing to measure accurate flows in using a logger.

Table 1.1 provides a summary of bypass diversion locations and field observations. General notes regarding diversion condition, status, and capability in installing flow measuring devices are provided for specific diversions not appearing to have adequate measuring and recording infrastructure as may be required in the individual water rights and/or for water diversions appearing to not have an active water right associated with the use. The table contains numerical indicators to allow for quick reference to locations and photo documentation found in **Figure 1.1** of **Appendix A** and **Appendix C (Photo Log)**.

The remaining tables are found in **Appendix B**.

- **Table 1.2** provides a summary of the permitted surface water diversions from data pulled from the CO DWR database along the project area. The table provides appropriation and priority dates, volumes allowed for use, types of use, and method of diversion.
- **Table 1.3** provides a summary of permitted shallow wells from data pulled from the CO DWR database. We selected a cutoff of two hundred (200) feet deep for wells adjacent to the St. Vrain Creek. While water use from shallow wells is not as noticeable to surface water flows, potential heavy use during low flow conditions can cause a draw down effect allowing for additional water to seep into the soil strata and not be as readily available for downstream water use.

These have been provided with a corresponding ID to the map figures found in **Appendix A** for ease of cross referencing.

Table 1.1: Bypass Diversion Locations & Field Observations: North St. Vrain Project Area

Larger Known Diversions	Description	Diversion Measurements	Meter Observed (Yes/No)	Flow Measurement Capabilities / Options	Parcel Owner	Permitted Surface Water Right & Map ID From Table 1.2	Photo Log Number (Sequential # In Upper Right Hand)	Field/Map Photo ID (See Fig. 1.1)
Diversion	Diversion across the County of Boulder. Could be significant during higher flows		No	Weir & Logger	County of Boulder	Hall Fish Ditch: Map ID 5	29	48
Diversion	Diversion County of Boulder property- Looks approximately 30' wide with higher flows.	30' wide	Sluee	Weir & Logger	County of Boulder	Sosey Ditch : Map ID 10	43	66
Ditch	Outlet flow of Anderson Ditch. Photo Log #33 could be the diversion point.		No	Logger	City of Boulder	Anderson Ditch RT Outlet: Map ID 60	67 & 68	86
Ditch	Evans Ditch		No	Logger	Planet Bluegrass Farm LLC	Evans Ditch: Map ID 4	57	101
Diversion	Lyons Diversion, Nothing coming from return. Amount diverted unknown. No meter at diversion, partial return, or return.		No	Meter/Logger	Lyons	Lyons Park: Map ID 2	117	121
Diversion	Unknown diversion at Lyons Park #2		No	Meter/Logger	Lyons	Unknown/ Possible Old Return	140	268
Weir/Diversion Observations	Description	Diversion Measurements	Meter Observed (Yes/No)	Flow Measurement Capabilities / Options	Owner	Permit	Photo Log Number	Field/Map Photo ID (Near FIN #)
Weir	Man made Weir by River Ministries- Gladly granted access to river. Shallow well nearby.		No	Weir & Logger	River Ministries	RIVER FOURSQUARE CHURCH WELL 0505562: Map ID 75 RIVER FOURSQUARE CHURCH WELL 19449: Map ID 73 RIVER FOURSQUARE CHURCH WELL 169365: Map ID 74 RIVER FOURSQUARE CHURCH WELL 23931: Map ID 72	50	244
Weir	Wier built in water. Irrigation pull upstream from Planet Bluegrass Farm LLC. Extensive irrigation occurring. No water rights found. Several weirs exist.		No	Logger	Planet Bluegrass Farm LLC	No- But they are connected to Festivaria via road under bridge, same pipe, seasonal bridges.	58, 87	101, 257
Weir	Made Wier on Boulder Property by a beach... likely pulling water from creek.		No	Logger	Boulder	No	69	252
Weir	Weir with black pump station. Possibly expired in 2016		No	Water Meter	Peter Lavine	FORSBERG WELL: Map ID 73	81	87
Wier	Festivaria LLC has multiple weirs, pipe for pumping at some, and a lot of mobile pipe between Bluegrass and Festivaria.	7'x3', 6'x10", 8' perpendicular, additional stair steps and perpendicular.	No	Logger & Meter For Pumps	Festivaria	3 Permitted Pumps Above	95-113	260, 261, 262, 104, 105, 106, 263, 264, 110, 108, 111, 112
Diversion	Small Diversion to Garden- Garden Appears to be on City of Boulder Property - He also has a pump later- see pump section photo log 25. He did volunteer his number for further discussion: 720-938-4854	Approximate 6" Opening	No	Logger	Aaron Lawson	No	24	40
Diversion	Ditch that is approximately 12" wide where it narrows on shore and approximately 20' long diversion in stream. There is possible association this water right: Appears expired.	12'x20' water diversion narrows to 1' channel.	No	Logger	Town of Lyons property	No	37	241
Diversion	Diversion to Apple Valley Pond- Left Hand has opposed this before and the pond was limited to 50-acre ft per year- no meter was observed.	Minimum 2' Opening	No	Logger	M+JB Holdings LLC	Apple Valley Pond: Map ID 63	51	177
Diversion	Diversion to pool on Lyons property.		No	Logger	Lyons	Yes	138	267

Table 1.1: Bypass Diversion Locations & Field Observations: North St. Vrain Project Area

Shallow Well/ Pump Diversions	Description	Diversion Measurements	Meter Observed (Yes/No)	Flow Measurement Capabilities / Options	Parcel Owner	Permitted Surface Water Right Owner & Map ID for Table 1.2	Photo Log Number	Field/Map Photo ID (See Fig. 1.1)
All Shallow Wells- See Additional Details	Multiple Land Owners Indicated No Regular Metering.		No	Water Meter	Various	Permits need to be diligently looked through, abandoned wells confirmed, and permits confirmed.		
Shallow Well/Pump	Water right is possibly not utilized		No	Water Meter	County of Boulder	Sims Pump 1: Map ID 19	26	208
Shallow Well	Extra Concern as it has a small winery- Rusty Vines Vineyard		No	Water Meter	Heather & Rex Heiby	See Table 1.3: Map ID 29	31	54
Shallow Pool	Possible Pumping		No	Water Meter	James Gilbert	No water right- shallow wells a distance off.	7	22
Pump	Diversion with a pump. Possibly expired.		No	Water Meter	Linda & John Whiteman	Green Pump: Map ID 39	13-15	34
Pump	Possible Pump to garden. Records Indicate a Ross pump possibly with expired use.		No	Water Meter	Daryl Smith & Patt Petry	Ross Pump: Map ID 40	18	154
Pump	Pump in water to house/yard		No	Water Meter	Aaron Lawson	Lawson Pump: Map ID 9	25	239
Pump	Pump in Water		No	Water Meter	Trooper Living Rev Trust	Sims Pump 3: Map ID 51	28	232
Pump	Pump in water that is not near a house. Runs upstream, possibly goes under the road.	At least 3" hose	No	Water Meter	Unknown	No	38-39	62
Pump	Black pipe of approximately 1" present in water.	1"	No	Water Meter	Joanne & Kent Irwin	No	42	64
Pump	Black tube approximately 1" in water.	1"	No	Water Meter	Donald & Dawn Elsberry	No	47	242
Pump	Black & white pipe in background for pumping		No	Water Meter	Burdock Hollow LLC	Torres-Rooney Surface Diversion: Map ID 48	49	74
Pump	Pump correlates to Peterson Pump		No	Water Meter	Keneth Singer & Sandra Spellman	Peterson Pump: Map ID 38	66	179
Pump	Pool & pump to garden. 50 ft. well is only water right listed.		No	Water Meter	Tina & Jeff Baurick	No	72	253
Pump	Blue pumps takes water to red shipping container and there is mass irrigation. They have one expired permit & a point of diversion that may have expired in 2015.	Approx 3"pipe	No	Water Meter	Janis & James McCain	Flowers Groundwater Diversion: Map ID 79	79	73
Pump	Pumps from river - 2.5" pipe. Waters almost all the property. No water rights observed. Blue Grass Farms LLC	2.5"	No	Water Meter	Bluegrass Farms LLC	No	87	258
Pump	Pump at Festivaria LLC- this land connects to Bluegrass Farms LLC. Festivaria has three water rights.	3" pipe w/ 30'x20' holding pond.	No	Water Meter	Festivaria	Furgason Pump: Map ID 45 Well- Steamboat WTR Co Well: Map ID 65 Well- Williams Well: Map ID 81	90-93	259
Pump	Irrigation System by river with a lot of pipe. These are located on the Town of Lyons Section 18 Township 3N Range 70 Block 20 Lot 10. A Thomas pump is associated with this water right- no meter observed. The neighbor who it appears to go to also has a water right associated. Pipe size is 2.5".	2.5"	No	Water Meter	Lyons	Banta Pump: Map ID 42	135-137, 139	193, 147
Pump	There appears to be a yellow pump in the yard & associated water rights.		No	Water Meter	215 2nd Ave Holding LLC	SVLHWCD North St Brain Creek Impact Reach : Map ID 55	143	195
Pump	Possible Pump in yard w/ river access. No water right association observed.		No	Water Meter	Unknown	No	144	269
Pump	Approximate 1" black pipe in water.	1"	No	Water Meter	Unknown	No	145	270

Notes:

1. Possible Expirations are based on Augmentation plans. Further investigation should be done for water rights. Additional water rights were also observed that do not appear to be used.
2. Weirs that had no measurement device were greater than 4' in width. Good candidates for data logger and transducer for measuring water level in flume or weir.
3. For certain pump applications, whether surface or shallow well, it is often that a "worst" case scenario is calculated by multiplying pump capacity by run hours to get max volume. Many pumps and wells had no observable flow meters, but had hour meters.

APPENDICES

APPENDIX A – MAPS

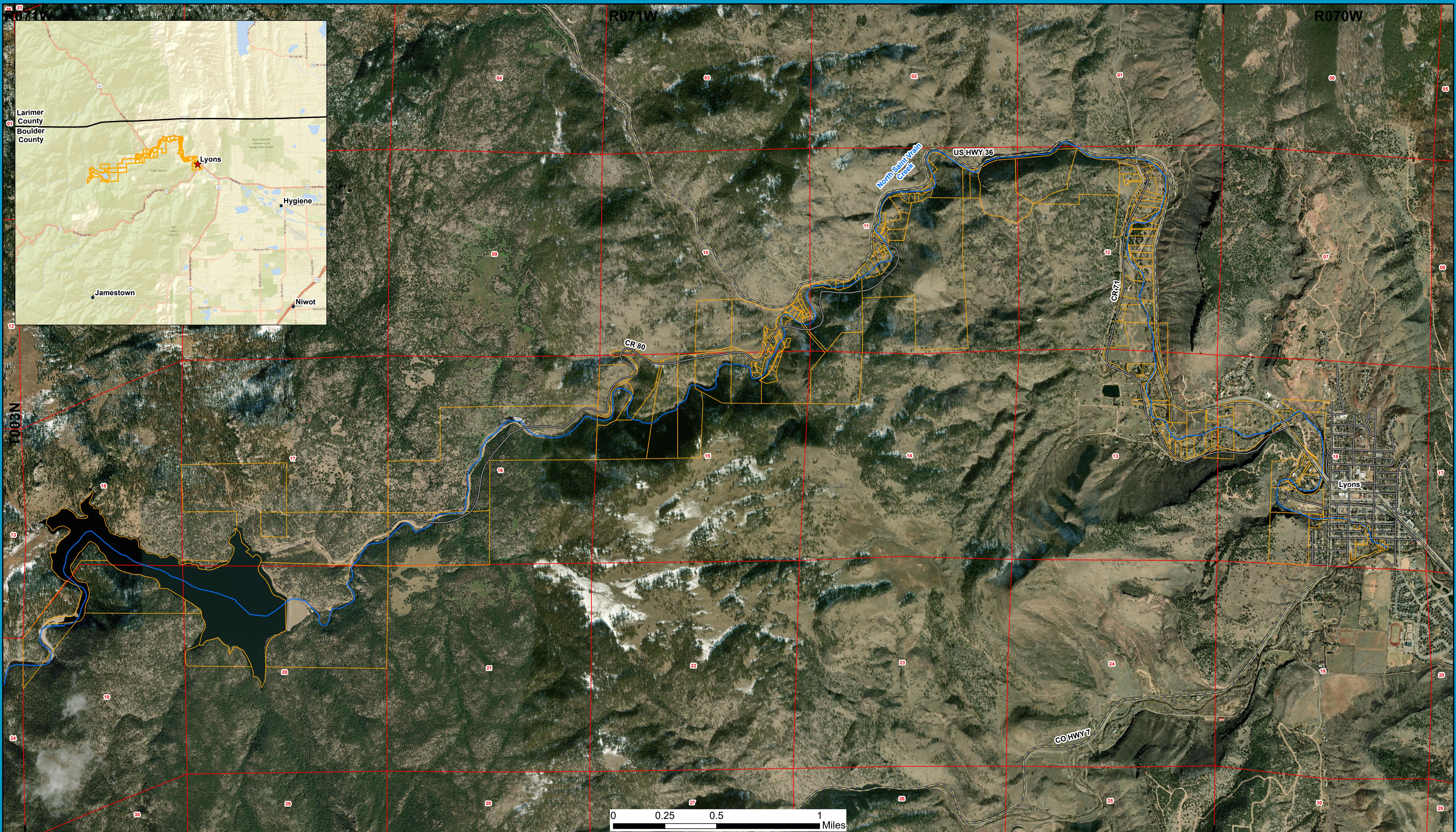


Figure 1.0 - General Location Map

- North Saint Vrain Creek — Local Road
- Highway
- Parcel Boundary



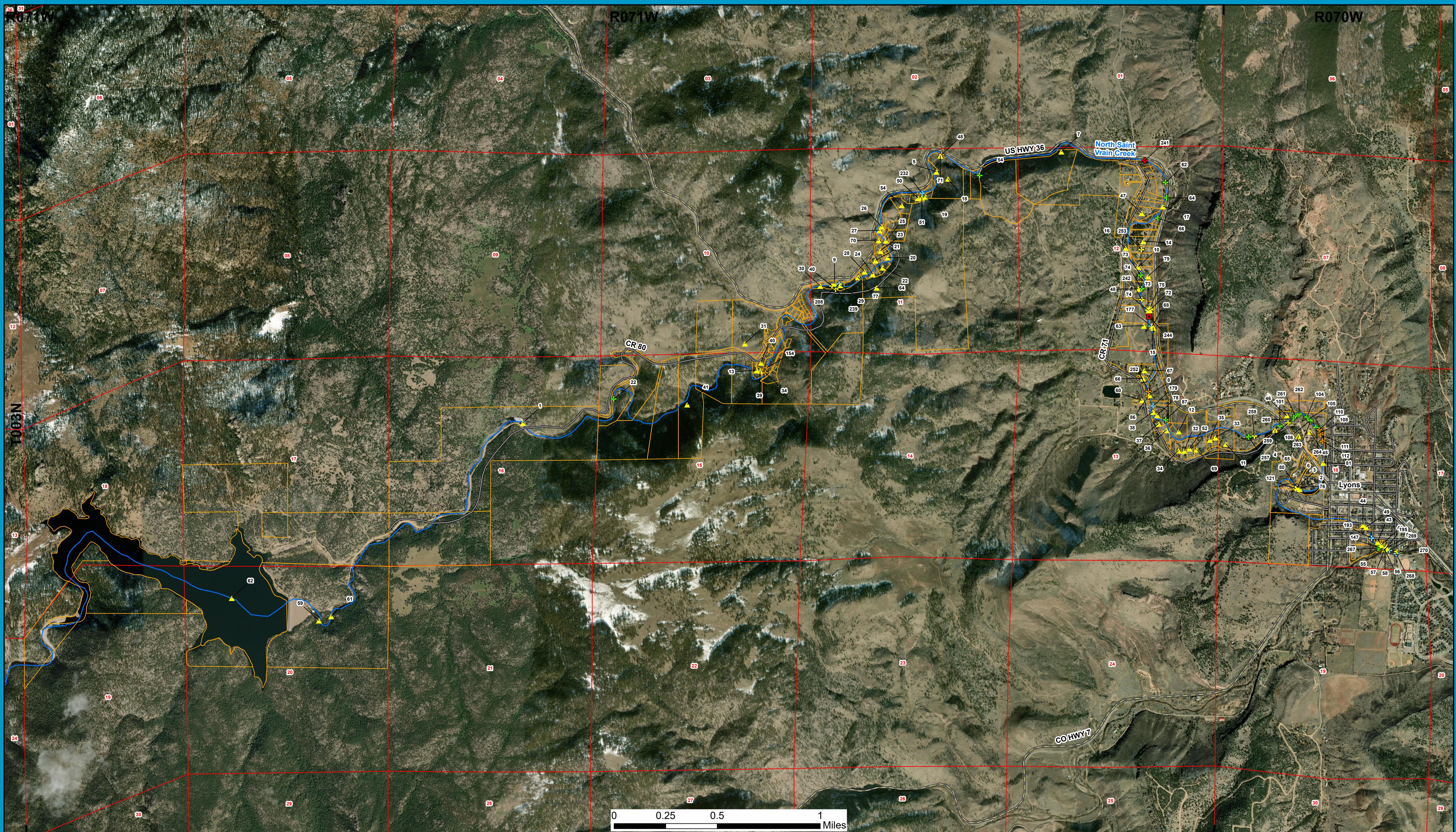


Figure 1.1 - Bypass Diversion Locations & Field Observations

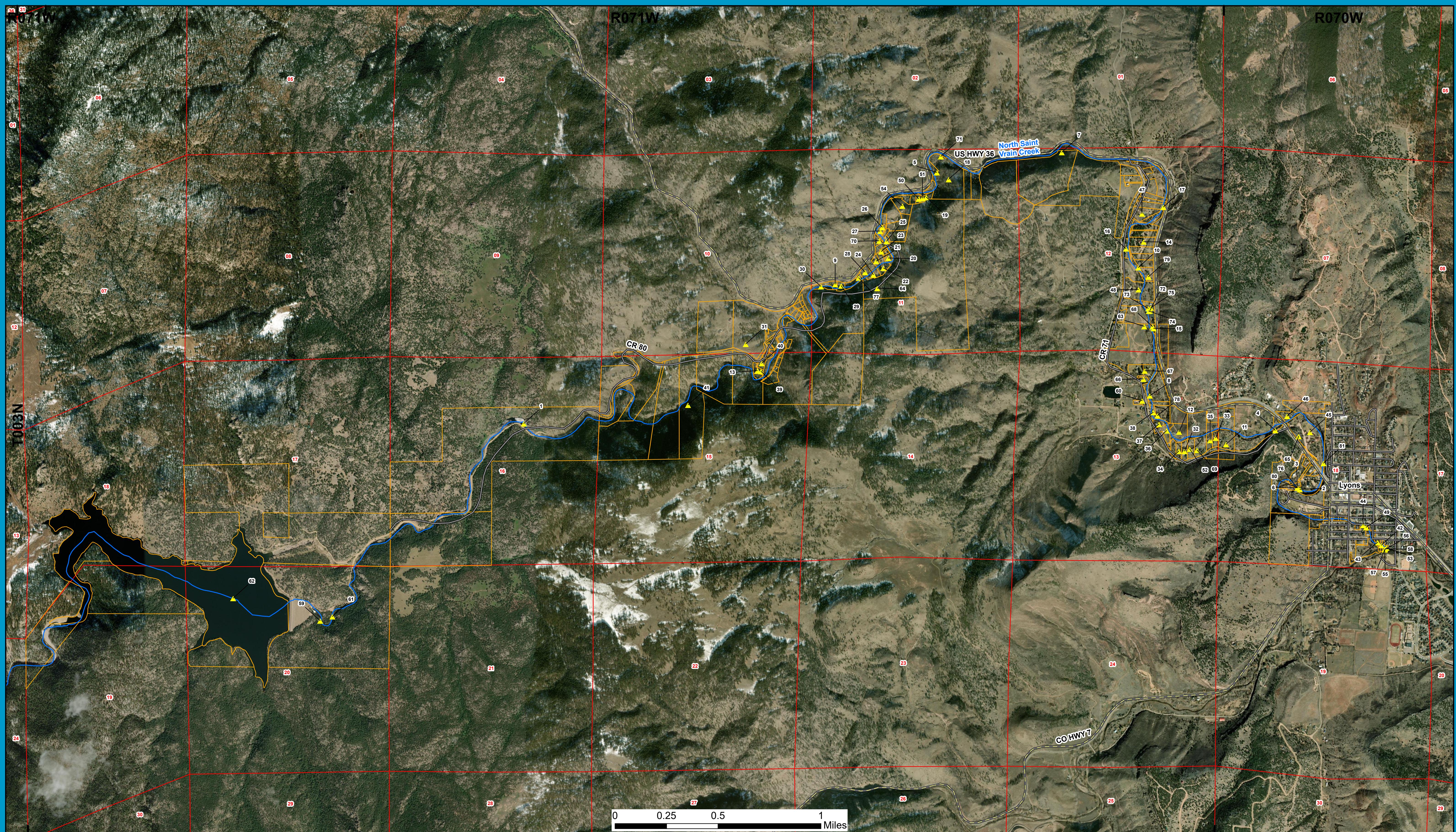


Figure 1.2 - Permitted Surface Water Features

▲ Permitted Surface Water Feature Parcel Boundary — Highway
— North Saint Vrain Creek — Local Road



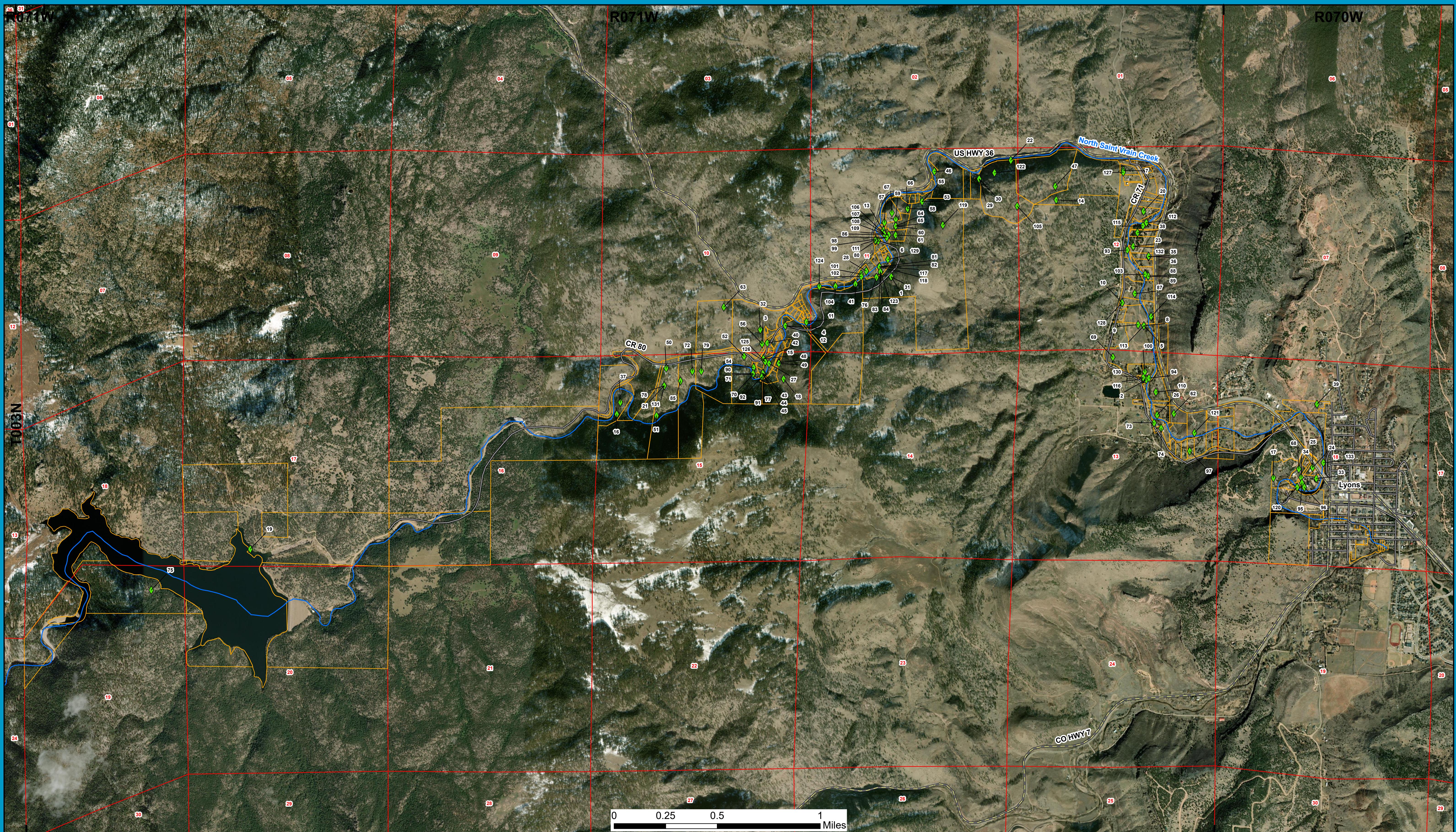


Figure 1.3 - Permitted Shallow Wells

APPENDIX B – TABLES

Table 1.2: Permitted Surface Water Features: North St. Vrain Project Area (CO DWR Data As Of 07/02/2025)

Map ID	More Info	WDID	StructType	Feature Typ	Struct Name	Curr In Use	Water Source	Water Source mi	Assoc Case No.	DCRrat tAbs	DcrRat Cond	DcrRat APab	DcrRat APco	DcrVolAP ab	Township	Range	Section	Loc Accurac	LatDecDeg	LongDecDeg	Div Rec Start	Div Rec End	Struct Key
1	https://dwr.state.co.us/Tools/Structures/0500511	0500511	Pipeline	Point of Diversion	LONGMONT NORTH PIPELINE	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	8.43	Multiple	40.8	0	792.26	75	2804.6	3.0 N	71.0 W	16	Digitized	40.229305	-105.345923	1954	2021	Surface
2	https://dwr.state.co.us/Tools/Structures/0500516	0500516	Ditch	Point of Diversion	LYONS DITCH	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	0.84	CA4790	4.25	0	0	0	0	03.0 N	70.0 W	18	Spotted from section lines	40.224865	-105.274613	1976	1988	Surface
3	https://dwr.state.co.us/Tools/Structures/0500695	0500695	Pipeline	Point of Diversion	C B Q PIPELINE	Historical structure only - no longer exists or has records, but has historical data (H)	NORTH SAINT VRAIN CREEK [00178190]	1.04	CA6673	0.1286	0	0	0	0	03.0 N	70.0 W	18	Spotted from quarters	40.224977	-105.274849	0	0	Surface
4	https://dwr.state.co.us/Tools/Structures/0500729	0500729	Ditch	Point of Diversion	EVANS DITCH	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	1.5	CA4790	4	0	0	0	0	03.0 N	70.0 W	18	Digitized	40.229013	-105.276899	2011	2011	Surface
5	https://dwr.state.co.us/Tools/Structures/0500858	0500858	Ditch	Point of Diversion	HALL FISH DITCH	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	4.9	90CW0198	5	0	0	0	0	03.0 N	71.0 W	11	Spotted from section lines	40.247089	-105.30806	0	0	Surface
6	https://dwr.state.co.us/Tools/Structures/0500887	0500887	Ditch	Point of Diversion	SITES DITCH	Historical structure only - no longer exists or has records, but has historical data (H)	NORTH SAINT VRAIN CREEK [00178190]	1.04	01CW0273, CA4790	0	0	0	0	0	03.0 N	70.0 W	18	Spotted from quarters	40.224977	-105.274849	0	0	Surface
7	https://dwr.state.co.us/Tools/Structures/0501042	0501042	Pipeline	Point of Diversion	LONGMONT NORTH PIPELINE ALT PT A	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	4.11	Multiple	0	0	121.63	0	0	03.0 N	71.0 W	12	Digitized	40.248533	-105.29659	0	0	Surface
8	https://dwr.state.co.us/Tools/Structures/0501043	0501043	Pipeline	Point of Diversion	LONGMONT NORTH PIPELINE ALT PT B	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	2.29	Multiple	0	0	121.63	0	0	03.0 N	71.0 W	13	Digitized	40.231427	-105.288428	0	0	Surface
9	https://dwr.state.co.us/Tools/Structures/0501046	0501046	Pump	Point of Diversion	LAWSON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.89		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.239189	-105.31737	0	0	Surface
10	https://dwr.state.co.us/Tools/Structures/0501050	0501050	Ditch	Point of Diversion	SOSEY DITCH	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	2.96	Multiple	3.18	5	0	0	0	03.0 N	71.0 W	12	GPS	40.240442	-105.289525	2019	2021	Surface
11	https://dwr.state.co.us/Tools/Structures/0501051	0501051	Pump	Point of Diversion	DEBOOM PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.72		0	0	0	0	0	03.0 N	70.0 W	18	User supplied	40.22802	-105.281408	0	0	Surface
12	https://dwr.state.co.us/Tools/Structures/0501052	0501052	Pump	Point of Diversion	KING PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.01		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.228884	-105.285726	0	0	Surface
13	https://dwr.state.co.us/Tools/Structures/0501055	0501055	Pump	Point of Diversion	JEFFERY PUMP	Active structure but diversion records are not maintained (U)	SAINT VRAIN CREEK [00205012]	32.25		0	0	0	0	0	03.0 N	71.0 W	15	User supplied	40.233088	-105.324477	0	0	Surface
14	https://dwr.state.co.us/Tools/Structures/0501059	0501059	Ditch	Point of Diversion	BAURICK SURFACE DIVERSION	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	3.11		0	0	0	0	0	03.0 N	71.0 W	12	User supplied	40.242263	-105.289039	0	0	Surface
15	https://dwr.state.co.us/Tools/Structures/0501198	0501198	Pump	Point of Diversion	WILSON, JAMES PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.63		0	0	0	0	0	03.0 N	71.0 W	12	User supplied	40.236166	-105.288096	0	0	Surface
16	https://dwr.state.co.us/Tools/Structures/0501199	0501199	Pump	Point of Diversion	REED PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	3.06		0	0	0	0	0	03.0 N	71.0 W	12	User supplied	40.241773	-105.290659	0	0	Surface
17	https://dwr.state.co.us/Tools/Structures/0501200	0501200	Pump	Point of Diversion	BIEL PUMP 2	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	3.38		0	0	0	0	0	03.0 N	71.0 W	12	User supplied	40.24471	-105.287239	0	0	Surface
18	https://dwr.state.co.us/Tools/Structures/0501201	0501201	Pump	Point of Diversion	ROCK N RIVER PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	4.95		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.246605	-105.306976	0	0	Surface
19	https://dwr.state.co.us/Tools/Structures/0501202	0501202	Pump	Point of Diversion	SIMS PUMP 1	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.03		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.245347	-105.309016	0	0	Surface

Map ID	More Info	WDID	StructType	Feature Typ	Struct Name	Curr In Use	Water Source	Water Source mi	Assoc Case No.	DCRra tAbs	DcrRat Cond	DcrRat APab	DcrRat APco	DcrVolAP ab	Township	Range	Section	Loc Accurac	LatDecDeg	LongDecDeg	Div Rec Start	Div Rec End	Struct Key
20	https://dwr.state.co.us/Tools/Structures/0501204	0501204	Pump	Point of Diversion	HAMMAN PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.58		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.241049	-105.3125	0	0	Surface
21	https://dwr.state.co.us/Tools/Structures/0501205	0501205	Pump	Point of Diversion	KUMPF/BERG PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.63		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.24083	-105.313616	0	0	Surface
22	https://dwr.state.co.us/Tools/Structures/0501207	0501207	Ditch	Point of Diversion	OLSON SURFACE DIVERSION	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.62		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.240345	-105.312943	0	0	Surface
23	https://dwr.state.co.us/Tools/Structures/0501208	0501208	Pump	Point of Diversion	SHELLY S COTTAGES PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.5		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.241507	-105.313148	0	0	Surface
24	https://dwr.state.co.us/Tools/Structures/0501209	0501209	Pump	Point of Diversion	SNYDER PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.69		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.239874	-105.313858	0	0	Surface
25	https://dwr.state.co.us/Tools/Structures/0501210	0501210	Pump	Point of Diversion	CLEVELAND PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.46		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.242229	-105.31267	0	0	Surface
26	https://dwr.state.co.us/Tools/Structures/0501211	0501211	Pump	Point of Diversion	COPPOLECCCHIA PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.36		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.243219	-105.313062	0	0	Surface
27	https://dwr.state.co.us/Tools/Structures/0501212	0501212	Pump	Point of Diversion	HILTON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.41		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.242948	-105.313261	0	0	Surface
28	https://dwr.state.co.us/Tools/Structures/0501213	0501213	Pump	Point of Diversion	HUTCHINSON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.71		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.240053	-105.314623	0	0	Surface
29	https://dwr.state.co.us/Tools/Structures/0501214	0501214	Pump	Point of Diversion	KENDALL PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.85		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.239092	-105.316817	0	0	Surface
30	https://dwr.state.co.us/Tools/Structures/0501215	0501215	Pump	Point of Diversion	ROUTZON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.96		0	0	0	0	0	03.0 N	71.0 W	11	User supplied	40.239032	-105.318674	0	0	Surface
31	https://dwr.state.co.us/Tools/Structures/0501216	0501216	Pump	Point of Diversion	HANLEY PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	6.84		0	0	0	0	0	03.0 N	71.0 W	10	User supplied	40.234959	-105.325567	0	0	Surface
32	https://dwr.state.co.us/Tools/Structures/0501218	0501218	Pump	Point of Diversion	DEAN PUMP 1	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.98		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.227525	-105.285227	0	0	Surface
33	https://dwr.state.co.us/Tools/Structures/0501219	0501219	Pump	Point of Diversion	JOHNSON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.82		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.228469	-105.282362	0	0	Surface
34	https://dwr.state.co.us/Tools/Structures/0501220	0501220	Pump	Point of Diversion	MCGUCKIN PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.99		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.227532	-105.285744	0	0	Surface
35	https://dwr.state.co.us/Tools/Structures/0501221	0501221	Pump	Point of Diversion	SPYCHALLA PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.85		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.228296	-105.282867	0	0	Surface
36	https://dwr.state.co.us/Tools/Structures/0501222	0501222	Pump	Point of Diversion	HOOLEY PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.07		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.228971	-105.286866	0	0	Surface
37	https://dwr.state.co.us/Tools/Structures/0501223	0501223	Pump	Point of Diversion	LEVINE PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.14		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.229429	-105.287574	0	0	Surface
38	https://dwr.state.co.us/Tools/Structures/0501224	0501224	Pump	Point of Diversion	PETERSON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.2		0	0	0	0	0	03.0 N	71.0 W	13	User supplied	40.230256	-105.288106	0	0	Surface
39	https://dwr.state.co.us/Tools/Structures/0501225	0501225	Pump	Point of Diversion	GREEN PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	6.67		0	0	0	0	0	03.0 N	71.0 W	15	User supplied	40.233044	-105.324159	0	0	Surface
40	https://dwr.state.co.us/Tools/Structures/0501226	0501226	Pump	Point of Diversion	ROSS PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	6.62		0	0	0	0	0	03.0 N	71.0 W	15	User supplied	40.233612	-105.324091	0	0	Surface

Map ID	More Info	WDID	StructType	Feature Typ	Struct Name	Curr In Use	Water Source	Water Source mi	Assoc Case No.	DcrRra tAbs	DcrRat Cond	DcrRat APab	DcrRat APco	DcrVolAP ab	Township	Range	Section	Loc Accurac	LatDecDeg	LongDecDeg	Div Rec Start	Div Rec End	Struct Key
41	https://dwr.state.co.us/Tools/Structures/0501227	0501227	Pump	Point of Diversion	SIDWELL PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	7.26		0	0	0	0	03.0 N	71.0 W	15	User supplied	40.230656	-105.330848	0	0	0	Surface
42	https://dwr.state.co.us/Tools/Structures/0501228	0501228	Pump	Point of Diversion	BANTA PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0.03		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.220946	-105.267111	0	0	0	Surface
43	https://dwr.state.co.us/Tools/Structures/0501229	0501229	Pump	Point of Diversion	THOMAS PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0.05		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.221152	-105.267453	0	0	0	Surface
44	https://dwr.state.co.us/Tools/Structures/0501231	0501231	Pump	Point of Diversion	GRACE PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0.17		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.222347	-105.268797	0	0	0	Surface
45	https://dwr.state.co.us/Tools/Structures/0501233	0501233	Pump	Point of Diversion	FERGUSON PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.24		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.228895	-105.273701	0	0	0	Surface
46	https://dwr.state.co.us/Tools/Structures/0501234	0501234	Pump	Point of Diversion	SELF PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.41		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.230016	-105.27581	0	0	0	Surface
47	https://dwr.state.co.us/Tools/Structures/0501268	0501268	Pump	Point of Diversion	BIEL PUMP 1	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	3.23		0	0	0	0	03.0 N	71.0 W	12	User supplied	40.244236	-105.2892	0	0	0	Surface
48	https://dwr.state.co.us/Tools/Structures/0501273	0501273	Pump	Point of Diversion	TORRES-ROONEY SURFACE DIVERSION	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	2.83		0	0	0	0	03.0 N	71.0 W	12	User supplied	40.238902	-105.289495	0	0	0	Surface
49	https://dwr.state.co.us/Tools/Structures/0501274	0501274	Ditch	Point of Diversion	ALEX SURFACE DIVERSION	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0.16		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.222204	-105.268515	0	0	0	Surface
50	https://dwr.state.co.us/Tools/Structures/0501288	0501288	Pump	Point of Diversion	SIMS PUMP 2	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.06		0	0	0	0	03.0 N	71.0 W	11	User supplied	40.245228	-105.309721	0	0	0	Surface
51	https://dwr.state.co.us/Tools/Structures/0501289	0501289	Pump	Point of Diversion	SIMS PUMP 3	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.04		0	0	0	0	03.0 N	71.0 W	11	User supplied	40.245274	-105.30938	0	0	0	Surface
52	https://dwr.state.co.us/Tools/Structures/0501295	0501295	Pump	Point of Diversion	DEAN PUMP 2	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	1.97		0	0	0	0	03.0 N	71.0 W	13	User supplied	40.227679	-105.284745	0	0	0	Surface
53	https://dwr.state.co.us/Tools/Structures/0501299	0501299	Pump	Point of Diversion	SMITH PUMP	Active structure but diversion records are not maintained (U)	SAINT VRAIN CREEK [00205012]	32.25		0	0	0	0	03.0 N	70.0 W	18	User supplied	40.220767	-105.26664	0	0	0	Surface
54	https://dwr.state.co.us/Tools/Structures/0501300	0501300	Pump	Point of Diversion	GLOISTEN PUMP	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	5.14		0	0	0	0	03.0 N	71.0 W	11	User supplied	40.244729	-105.311223	0	0	0	Surface
55	https://dwr.state.co.us/Tools/Structures/0502025	0502025	Reach	Lower Terminus	SVLHWCD NORTH ST VRAIN CREEK IMPACT REACH	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0		0	0	0	0	03.0 N	70.0 W	18	Digitized	40.22064	-105.266804	0	0	0	Surface
56	https://dwr.state.co.us/Tools/Structures/0502026	0502026	Reach	Lower Terminus	SVLHWCD SOUTH ST VRAIN CREEK IMPACT REACH	Active structure but diversion records are not maintained (U)	SOUTH SAINT VRAIN CREEK [00178246]	0.01		0	0	0	0	03.0 N	70.0 W	18	Digitized	40.22064	-105.266804	0	0	0	Surface
57	https://dwr.state.co.us/Tools/Structures/0502027	0502027	Reach	Upper Terminus	SVLHWCD ST VRAIN CREEK IMPACT REACH	Active structure but diversion records are not maintained (U)	SAINT VRAIN CREEK [00205012]	32.25		0	0	0	0	03.0 N	70.0 W	18	Digitized	40.22064	-105.266804	0	0	0	Surface
58	https://dwr.state.co.us/Tools/Structures/0502128	0502128	Minimum Flow	Lower Terminus	N ST VRAIN CR MIN FLOW 2	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	0.01	87CW0282	21	0	0	0	03.0 N	70.0 W	18	Digitized	40.220694	-105.266769	0	0	0	Minimum Flow
59	https://dwr.state.co.us/Tools/Structures/0502128	0502128	Minimum Flow	Upper Terminus	N ST VRAIN CR MIN FLOW 2	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	10.15	87CW0282	21	0	0	0	03.0 N	71.0 W	20	Digitized	40.215364	-105.364561	0	0	0	Minimum Flow
60	https://dwr.state.co.us/Tools/Structures/0502301	0502301	Other	Point of Diversion	ANDERSON DITCH RT OUTLET	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	2.28		0	0	0	0	03.0 N	71.0 W	13	Digitized	40.231065	-105.28912	0	0	0	Other
61	https://dwr.state.co.us/Tools/Structures/0503204	0503204	Stream Gage	Other	NORTH SAINT VRAIN CREEK BELOW BUTTON ROCK RESERVOI	Active structure but diversion records are not maintained (U)	NORTH SAINT VRAIN CREEK [00178190]	10.05		0	0	0	0	03.0 N	71.0 W	20	Digitized	40.215665	-105.363434	0	0	0	Other

Map ID	More Info	WDID	StructType	Feature Typ	Struct Name	Curr In Use	Water Source	Water Source mi No.	Assoc Case tAbs	DcrRra	DcrRat Cond	DcrRat APab	DcrRat APco	DcrVolAP ab	Township	Range	Section	Loc Accurac	LatDecDeg	LongDecDeg	Div Rec Start	Div Rec End	Struct Key
62	https://dwr.state.co.us/Tools/Structures/0504010	0504010	Reservoir	Other	BUTTON ROCK RES	Active Structure with contemporary diversion records (A)	NORTH SAINT VRAIN CREEK [00178190]	10.7	Multiple	0	0	258.26	593	23475.5	3.0 N	71.0 W	20	GPS	40.216925	-105.372561	1975	2021	Reservoir
63	https://dwr.state.co.us/Tools/Structures/0504099	0504099	Reservoir	Other	APPLE VALLEY POND	Non-existent structure with no contemporary or historical record (N)	NORTH SAINT VRAIN CREEK [00178190]	0	18CW3217	0	0	0	0	0	3.0 N	71.0 W	12	Spotted from quarters	40.236302	-105.288961	0	0	Reservoir
64	https://dwr.state.co.us/Tools/Structures/0505251	0505251	Well	Point of Diversion	MARTIN WELL 1	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0	W7165	0.022	0	0	0	0	3.0 N	71.0 W	11	GPS	40.23892	-105.313501	0	0	Ground Water
65	https://dwr.state.co.us/Tools/Structures/0505354	0505354	Well	Point of Diversion	STEAMBOAT WTR CO WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0	W4148	0.056	0	0	0	0	3.0 N	70.0 W	18	Spotted from quarters	40.228601	-105.274736	0	0	Ground Water
66	https://dwr.state.co.us/Tools/Structures/0505454	0505454	Well	Point of Diversion	SISK HOUSE WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0	92CW0036	0.031	0	0	0	0	3.0 N	71.0 W	13	Spotted from quarters	40.232598	-105.289022	0	0	Ground Water
67	https://dwr.state.co.us/Tools/Structures/0505494	0505494	Well	Point of Diversion	COFFEY WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	13	User supplied	40.233173	-105.288894	0	0	Ground Water
68	https://dwr.state.co.us/Tools/Structures/0505503	0505503	Well	Point of Diversion	WILSON WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	GPS	40.236292	-105.28819	0	0	Ground Water
69	https://dwr.state.co.us/Tools/Structures/0505506	0505506	Well	Point of Diversion	WELKE WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	13	GPS	40.227608	-105.284075	0	0	Ground Water
70	https://dwr.state.co.us/Tools/Structures/0505511	0505511	Well	Point of Diversion	SHELLY S COTTAGES WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	11	GPS	40.242263	-105.31334	0	0	Ground Water
71	https://dwr.state.co.us/Tools/Structures/0505513	0505513	Well	Point of Diversion	ROCK N RIVER WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	11	Digitized	40.248216	-105.3077	0	0	Ground Water
72	https://dwr.state.co.us/Tools/Structures/0505557	0505557	Well	Point of Diversion	RIVER FOURSQUARE CHURCH WELL 23931	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	Digitized	40.237418	-105.28843	0	0	Ground Water
73	https://dwr.state.co.us/Tools/Structures/0505558	0505558	Well	Point of Diversion	RIVER FOURSQUARE CHURCH WELL 19449	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	GPS	40.237571	-105.288596	0	0	Ground Water
74	https://dwr.state.co.us/Tools/Structures/0505561	0505561	Well	Point of Diversion	RIVER FOURSQUARE CHURCH WELL 169365	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	GPS	40.237382	-105.288548	0	0	Ground Water
75	https://dwr.state.co.us/Tools/Structures/0505562	505562	Well	Point of Diversion	RIVER FOURSQUARE CHURCH WELL 91968	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	Digitized	40.237616	-105.288361	0	0	Ground Water
76	https://dwr.state.co.us/Tools/Structures/0505571	0505571	Well	Point of Diversion	LYONS PROPERTIES WELL 1	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	70.0 W	18	Spotted from quarters	40.224977	-105.274849	0	0	Ground Water
77	https://dwr.state.co.us/Tools/Structures/0505578	0505578	Well	Point of Diversion	HOLTHUS WELL	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	11	GPS	40.239655	-105.315209	0	0	Ground Water
78	https://dwr.state.co.us/Tools/Structures/0505583	0505583	Well	Point of Diversion	FORSBERG WELL 140556	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	13	Spotted from section lines	40.230023	-105.287717	0	0	Ground Water
79	https://dwr.state.co.us/Tools/Structures/0505598	0505598	Well	Point of Diversion	FLOWERS GROUNDWATER DIVERSION	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	71.0 W	12	Spotted from section lines	40.239796	-105.288582	0	0	Ground Water
80	https://dwr.state.co.us/Tools/Structures/0505607	0505607	Well	Point of Diversion	LYONS PROPERTIES WELL 2	Active structure but diversion records are not maintained (U)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	70.0 W	18	Spotted from quarters	40.224977	-105.274849	0	0	Ground Water
81	https://dwr.state.co.us/Tools/Structures/0505625	0505625	Well	Point of Diversion	WILLIAMS WELL	Non-existent structure with no contemporary or historical record (N)	GROUNDWATER: SAINT VRAIN CREEK	0		0	0	0	0	0	3.0 N	70.0 W	18	Spotted from quarters	40.226708	-105.272451	0	0	Ground Water

Table 1.3: Permitted Shallow Wells: North St. Vrain Project Area (CO DWR Permit Info As Of 07/02/2025)

Map ID	More Info	Permit	WDID	Current Status	Case No	Div	WD	County	PM	Township	Range	Section	LocAccurac	LatDecDeg	LongDecDeg	Use1	Use2	Aquifer1	Annual Appropr	Perm Issued	Perm Expire	Well Constr	First Benef	Pump Install	Well Plugged	Elev	Well Depth	Top PerfCas	Bot PerfCas	Yield	Static WL	Applicant Name	
1	https://dwr.state.co.us/Tools/WellPermits/0017139	17139-MH		Permit Expired		1	5	BOULDER	S	3 N	71 W		11	Spotted from quarters	40.239687	-105.312165	Monitoring/Sampling		ALL UNNAMED AQUIFERS		01991-01-14						0	0	0	0	0	BURNS, PAT	
2	https://dwr.state.co.us/Tools/WellPermits/0024205A			Application Information Requested		1	5	BOULDER	S	3 N	71 W		13	Spotted from section lines	40.232507	-105.288727	Household use only		ALL UNNAMED AQUIFERS		0						0	0	0	0	0	BEST, EARL	
4	https://dwr.state.co.us/Tools/WellPermits/0043488	3853-AD		Application Denied		1	5	BOULDER	S	3 N	71 W		10	Spotted from quarters	40.236219	-105.321873	Municipal		ALL UNNAMED AQUIFERS		0						0	0	0	0	0	JOHN R ALLEN INC	
5	https://dwr.state.co.us/Tools/WellPermits/0047685	4247-AD		Application Denied		1	5	BOULDER	S	3 N	71 W		12	Spotted from quarters	40.236302	-105.288961	Irrigation		ALL UNNAMED AQUIFERS		0						0	0	0	0	0	OSTERBERG, WESLEY	
6	https://dwr.state.co.us/Tools/WellPermits/0061640	321127-	0505511	Well Abandoned		1	5	BOULDER	S	3 N	71 W		11	User supplied	40.2422	-105.313375	Commercial		ALL UNNAMED AQUIFERS		12021-03-24		1950-06-01	1950-06-01	2014-12-31	0	75	0	0	0	0	ROCKMONT INVESTMENTS LLC (KOHLS, MICAH)	
7	https://dwr.state.co.us/Tools/WellPermits/0072874	85682--A		Well Constructed		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.247232	-105.290894	Domestic		ALL UNNAMED AQUIFERS		01976-08-23		1977-02-28	1977-01-31		0	70	27	30	0	10	BIEL, ANDREW R	
8	https://dwr.state.co.us/Tools/WellPermits/0078041	88784-		Well Constructed		1	5	BOULDER	S	3 N	71 W		12	Spotted from quarters	40.236302	-105.288961	Domestic		ALL UNNAMED AQUIFERS		01977-03-11		1979-02-25		1981-03-28	0	100	36	100	15	30	TISCOME, D J	
9	https://dwr.state.co.us/Tools/WellPermits/0082455	91968-	0505562	Permit Expired		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.23637	-105.289496	Household use only		ALL UNNAMED AQUIFERS		01977-07-26						0	0	0	0	0	SCHREDER, LAWRENCE S	
10	https://dwr.state.co.us/Tools/WellPermits/0089440	96983--A		Well Constructed		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.237916	-105.290972	Household use only		ALL UNNAMED AQUIFERS		01978-03-17		1980-02-18		1980-02-09	0	55	15	55	15	5	ROONEY, MATT	
11	https://dwr.state.co.us/Tools/WellPermits/0091254	98561-		Permit Expired		1	5	BOULDER	S	3 N	71 W		10	Spotted from section lines	40.236488	-105.319932	Domestic		ALL UNNAMED AQUIFERS		01980-05-09						0	0	0	0	0	HARDEL	
12	https://dwr.state.co.us/Tools/WellPermits/0201698	113207-		Permit Issued		1	5	BOULDER	S	3 N	71 W		10	Spotted from quarters	40.236219	-105.321873	Household use only		ALL UNNAMED AQUIFERS		01980-03-12						0	0	0	0	0	HETHERINGTON, E	
13	https://dwr.state.co.us/Tools/WellPermits/0206935	116038-		Permit Issued		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.242949	-105.312908	Household use only		ALL UNNAMED AQUIFERS		01980-09-04						0	0	0	0	0	FRANCIS, I L	
14	https://dwr.state.co.us/Tools/WellPermits/0214600	121555-		Permit Issued		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.245135	-105.297046	Domestic		ALL UNNAMED AQUIFERS		01981-08-14						0	0	0	0	0	MORGAN, DA	
15	https://dwr.state.co.us/Tools/WellPermits/0220212	123402-		Permit Expired		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.233883	-105.323858	Household use only		ALL UNNAMED AQUIFERS		01981-11-19						0	0	0	0	0	MILLER, GARY	
16	https://dwr.state.co.us/Tools/WellPermits/0222001	98803-		Permit Expired		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.229943	-105.33731	Household use only		ALL UNNAMED AQUIFERS		01982-01-26						0	0	0	0	0	MC COOL GERALD A	
20	https://dwr.state.co.us/Tools/WellPermits/0233511	129973-		Well Constructed		1	5	BOULDER	S	3 N	71 W		12	User supplied	40.244354	-105.289024	Household use only		ALL UNNAMED AQUIFERS		01983-04-18		1984-01-03		2019-06-13	0	85	10	85	10	20	BARHITE, V C	
23	https://dwr.state.co.us/Tools/WellPermits/0251951	139266--A		Well Constructed		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.241883	-105.289966	Domestic		ALL UNNAMED AQUIFERS		01985-04-19		1985-04-09	1985-04-09	1985-04-10	0	50	35	42	11	7	BEST, E L	
24	https://dwr.state.co.us/Tools/WellPermits/0254774A	139397-		Well Constructed		1	5	BOULDER	S	3 N	70 W		18	Spotted from section lines	40.226373	-105.273444	Commercial		ALL UNNAMED AQUIFERS		01985-05-02		1985-05-02	1985-05-15	1985-05-03	0	38	0	0	0	5	MORRIS, A	
25	https://dwr.state.co.us/Tools/WellPermits/0254774B	139397--A		Well Constructed		1	5	BOULDER	S	3 N	70 W		18	Spotted from section lines	40.226373	-105.273444	Commercial		ALL UNNAMED AQUIFERS		01985-05-02		1985-05-02	1985-05-15	1985-05-03	0	38	24	31	10	5	LYONS PROPERTIES LLC	
26	https://dwr.state.co.us/Tools/WellPermits/0255769	140556-	0505583	Well Constructed		1	5	BOULDER	S	3 N	71 W		13	Spotted from section lines	40.230023	-105.287717	Household use only		ALL UNNAMED AQUIFERS		01985-07-30		1985-08-12				0	80	20	60	0	6	FORSBERG, KENNETH
27	https://dwr.state.co.us/Tools/WellPermits/0257583	141257-		Well Constructed		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.233551	-105.323339	Household use only		ALL UNNAMED AQUIFERS		01985-09-12		1986-06-18		1986-06-20	0	170	110	170	1	1	WARNER FAMILY CABINS LLC	
28	https://dwr.state.co.us/Tools/WellPermits/0261987	142825-		Permit Extended		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.24008	-105.31459	Household use only		ALL UNNAMED AQUIFERS		01987-02-13	2014-10-14					0	0	0	0	0	UHR, JOHN C	
29	https://dwr.state.co.us/Tools/WellPermits/0264430A	144502-		Well Constructed		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.246594	-105.30413	Domestic		ALL UNNAMED AQUIFERS		01986-07-07		1955-12-31			0	18	0	0	0	0	TOOLEY, JAMES H	
31	https://dwr.state.co.us/Tools/WellPermits/0273856 </																																

41	https://dwr.state.co.us/Tools/WellPermits/0329320	163165-		Permit Issued		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.239167	-105.315442	Domestic		ALL UNNAMED AQUIFERS	0 1992-03-12					0	0	0	0	0	HICKMAN, LOIS E
43	https://dwr.state.co.us/Tools/WellPermits/0346566A	167964-		Well Replaced - Abandonment Required		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.232856	-105.323853	Domestic		ALL UNNAMED AQUIFERS	0 1993-01-07		1967-04-10			0	20	0	0	0	GREEN, RONALD L
45	https://dwr.state.co.us/Tools/WellPermits/0346566C	92452-VE		Permit Issued		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.232855	-105.323923	Domestic		ALL UNNAMED AQUIFERS	0 1992-12-11					0	0	0	0	0	GREEN, RONALD
48	https://dwr.state.co.us/Tools/WellPermits/0357182A	173442-		Well Constructed		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.233625	-105.322446	Household use only		ALL UNNAMED AQUIFERS	0 1993-10-04		1951-06-16			0	18	0	0	0	LEFEVRE KARLA & ERIN
53	https://dwr.state.co.us/Tools/WellPermits/0369472	179336-		Permit Expired		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.244986	-105.309355	Household use only		ALL UNNAMED AQUIFERS	0 1994-06-27					0	0	0	0	0	SIMS ALAN & MARILYN
57	https://dwr.state.co.us/Tools/WellPermits/0419840	205657-		Permit Issued		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.243499	-105.312805	Domestic		ALL UNNAMED AQUIFERS	0 1997-10-01					0	0	0	0	0	COPPOLECHIA, SALVATORE P
58	https://dwr.state.co.us/Tools/WellPermits/0447636A	220163-		Permit Expired		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.244478	-105.310681	Household use only		ALL UNNAMED AQUIFERS	0 1999-09-01					0	0	0	0	0	MUSSER, AL
60	https://dwr.state.co.us/Tools/WellPermits/0447636C	220165-		Permit Expired		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.243259	-105.311769	Household use only		ALL UNNAMED AQUIFERS	0 1999-09-01					0	0	0	0	0	ST JUST ANN GWYN HAMILTON
62	https://dwr.state.co.us/Tools/WellPermits/0460513	227014-		Permit Expired		1	5	BOULDER	S	3 N	71 W		13	Spotted from section lines	40.230135	-105.286178	Household use only		ALL UNNAMED AQUIFERS	0 2000-07-06					0	0	0	0	0	MAURER, DARRYL L
68	https://dwr.state.co.us/Tools/WellPermits/0491882	241875-		Well Constructed		1	5	BOULDER	S	3 N	70 W		18	Spotted from section lines	40.226262	-105.274701	Domestic		ALL UNNAMED AQUIFERS	0 2002-06-21		1956-12-31			0	25	0	0	0	MCCONNELL, SHARON D
69	https://dwr.state.co.us/Tools/WellPermits/0496191			Application Information Requested		1	5	BOULDER	S	3 N	71 W		13	Spotted from section lines	40.234085	-105.291802	Domestic		ALL UNNAMED AQUIFERS	3.23000002					0	0	0	0	0	LEVINE, PETER
73	https://dwr.state.co.us/Tools/WellPermits/0532429A	260899-		Well Replaced - Abandonment Required		1	5	BOULDER	S	3 N	71 W		13	User supplied	40.229473	-105.287997	Household use only		ALL UNNAMED AQUIFERS	0 2004-12-16		1960-12-31			0	0	0	0	0	LEVINE, PETER
74	https://dwr.state.co.us/Tools/WellPermits/0532429B	260899-A		Well Constructed		1	5	BOULDER	S	3 N	71 W		13	Spotted from section lines	40.229096	-105.287349	Domestic		ALL UNNAMED AQUIFERS	0 2004-12-16		2005-04-01		2005-03-28	0	150	50	130	10	LEVINE, PETER
75	https://dwr.state.co.us/Tools/WellPermits/0907853	66338-		Well Constructed		1	5	BOULDER	S	3 N	71 W		19	Spotted from section lines	40.21745	-105.379956	Household use only		ALL UNNAMED AQUIFERS	0 1972-11-15		1974-07-13			0	55	15	55	0	FOLTZ, ANNABELLE K
76	https://dwr.state.co.us/Tools/WellPermits/0910208	73557-		Permit Expired		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.239641	-105.313528	Household use only		ALL UNNAMED AQUIFERS	0 1974-03-08					0	0	0	0	0	DOUGLAS, REX L
77	https://dwr.state.co.us/Tools/WellPermits/0910926	77114-		Permit Expired		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.232855	-105.323923	use only		ALL UNNAMED AQUIFERS	0					0	0	0	0	0	THIERS, DENNIS B
78	https://dwr.state.co.us/Tools/WellPermits/0912493	86737-		Permit Expired		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.231965	-105.332959	Domestic		ALL UNNAMED AQUIFERS	0					0	0	0	0	0	WATERS JERRY S
79	https://dwr.state.co.us/Tools/WellPermits/0912601	87484-		Permit Expired		1	5	BOULDER	S	3 N	71 W		15	Spotted from section lines	40.233002	-105.329566	Domestic		ALL UNNAMED AQUIFERS	0					0	0	0	0	0	NANCY N
81	https://dwr.state.co.us/Tools/WellPermits/10026192			Application Withdrawn		1	5	BOULDER	S	3 N	71 W		11	User supplied	40.24039	-105.313249	Domestic		ALL UNNAMED AQUIFERS	0		1961-04-08		1961-04-08	0	20	0	0	0	OLSON, THOMAS
82	https://dwr.state.co.us/Tools/WellPermits/10026192			Application Withdrawn		1	5	BOULDER	S	3 N	71 W		11	User supplied	40.24039	-105.313249	Domestic		ALL UNNAMED AQUIFERS	0		1961-04-08		1961-04-08	0	20	0	0	0	VICTORA, FAYE
85	https://dwr.state.co.us/Tools/WellPermits/3619940C	24-GX		NA		1	9	BOULDER	S	3 N	71 W		15	Spotted from section quarters	40.232304	-105.331417	Geothermal		ALL UNNAMED AQUIFERS	0		2007-11-30			0	0	0	0	0	BROWN, PETER
86	https://dwr.state.co.us/Tools/WellPermits/3619940I	24-GX		NA		1	5	BOULDER	S	3 N	71 W		11	Spotted from section lines	40.242635	-105.312413	Geothermal		ALL UNNAMED AQUIFERS	0		2007-11-28			0	180	0	0	0	FELDMAN, KEN
88	https://dwr.state.co.us/Tools/WellPermits/3649475	285488-	0505598	Well Constructed		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.239796	-105.288582	Domestic		ALL UNNAMED AQUIFERS	0 2011-04-18		1920-12-31			0	10	0	0	0	FLOWERS, STEVEN P
89	https://dwr.state.co.us/Tools/WellPermits/3656081	289027-		Permit Issued		1	5	BOULDER	S	3 N	71 W		12	Spotted from section lines	40.239796	-105.288582	Commercial		ALL UNNAMED AQUIFERS	0 2012-08-06					0	0	0	0	0	FLOWERS, STEVE
90	https://dwr.state.co.us/Tools/WellPermits/3665659A	295336-		Well Replaced - Abandonment Required		1	5	BOULDER	S	3 N	71 W		15	User supplied	40.232844	-105.324817	Domestic		ALL UNNAMED AQUIFERS	0 2014-08-15		1969-11-01			0	15	0	0	0	MOORE, CAROLYN
91	https://dwr.state.co.us/Tools/WellPermits/3665659B	295336-A		Well Constructed		1	5	BOULDER	S	3 N	71 W</td																			

APPENDIX C – PHOTO LOG

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 1

Date: 5/23/2025

Location: Lyons, CO

Description:

Dam Outlet - Flow Control



Photograph: 2

Date: 5/23/2025

Location: Lyons, CO

Description:

Dam Outlet - Flow Control

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



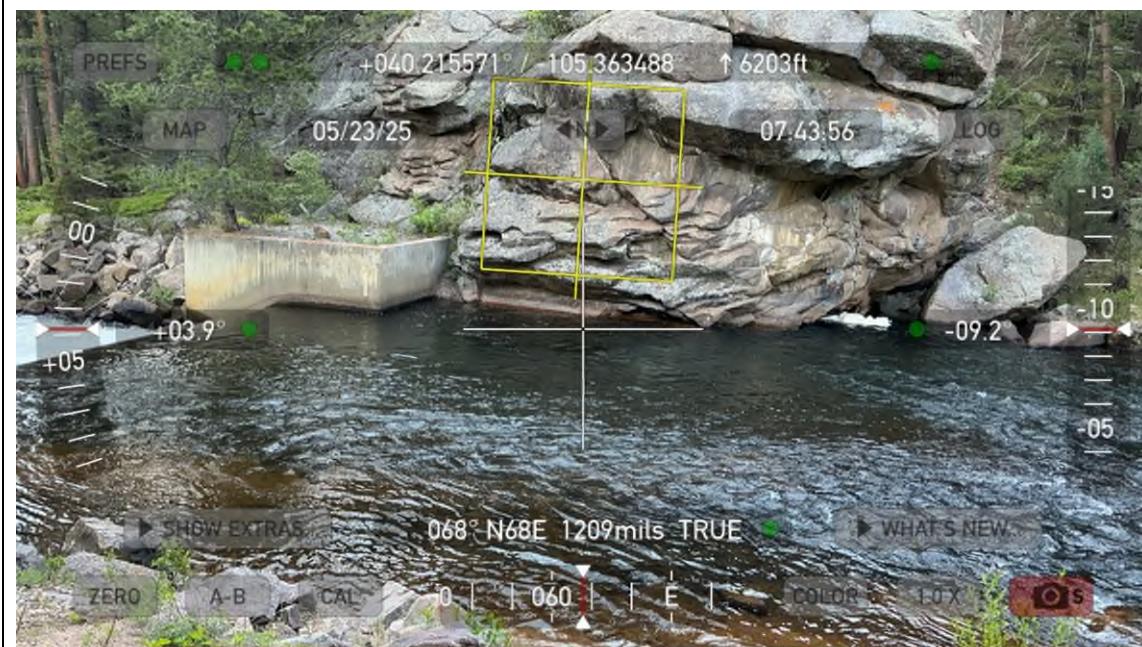
Photograph: 3

Date: 5/23/2025

Location: Lyons, CO

Description:

Flow Control



Photograph: 4

Date: 5/23/2025

Location: Lyons, CO

Description:

Flow Control

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



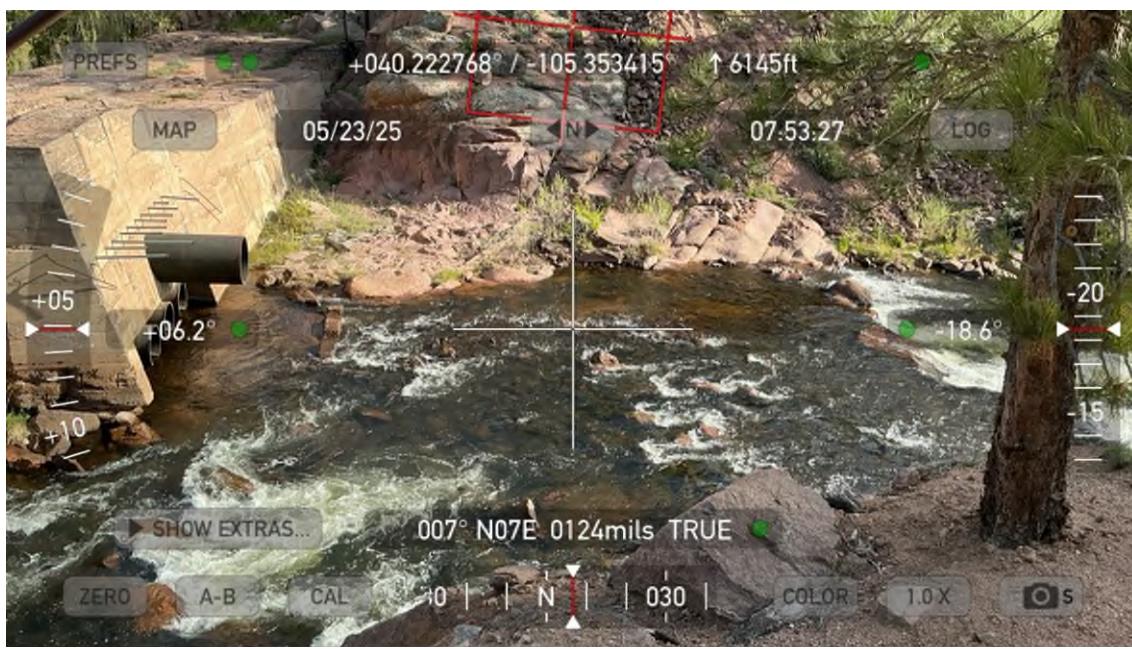
Photograph: 5

Date: 5/23/2025

Location: Lyons, CO

Description:

Old Flow Control



Photograph: 6

Date: 5/23/2025

Location: Lyons, CO

Description:

Old Flow Control

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 7

Date: 5/23/2025

Location: Lyons, CO

Description:
Small Pool- Possible
Pumping – **No
Permitted Observed.**

*Property of James
Gilbert.*



Photograph: 8

Date 5/23/2025

Location: Lyons, CO

Description:

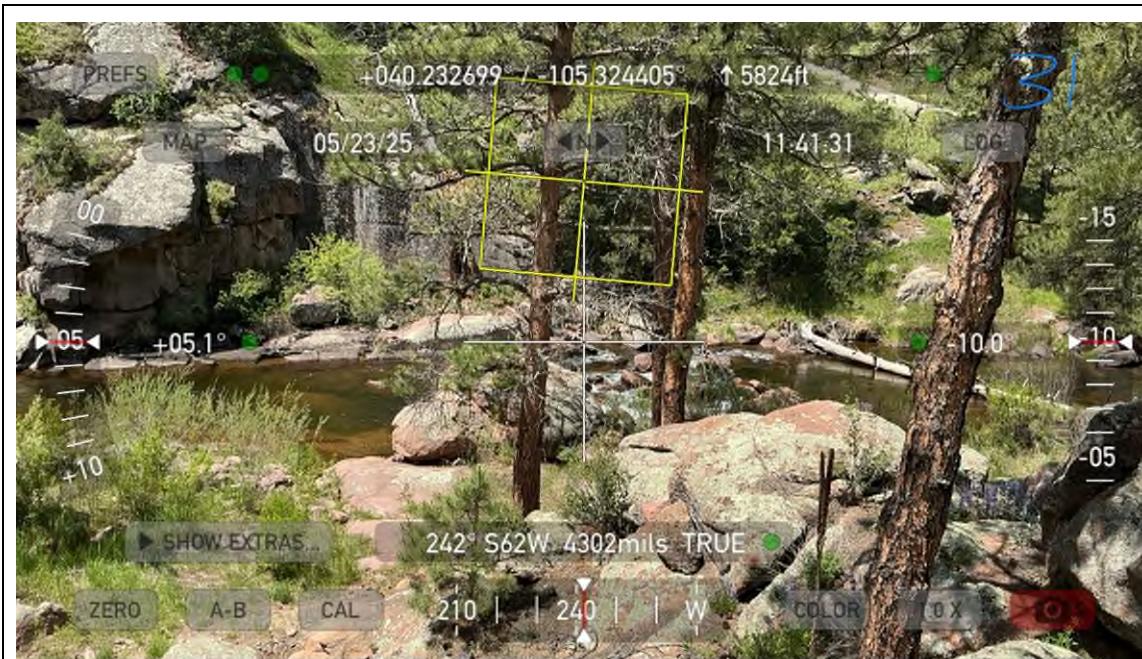
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 9

Date 5/23/2025

Location: Lyons, CO

Description:
Natural - No Concerns



Photograph: 10

Date: 5/23/2025

Location: Lyons, CO

Description:
Shallow Well - This is likely the abandoned one and there is supposed to be a new one that is 700 ft deep. Overall concerns for shallow wells. Property of Robert & Bernadette Jeffery- kindly allowed access. Possibly expired in 2022.

<https://dwr.state.co.us/Tools/Structures/0501055>

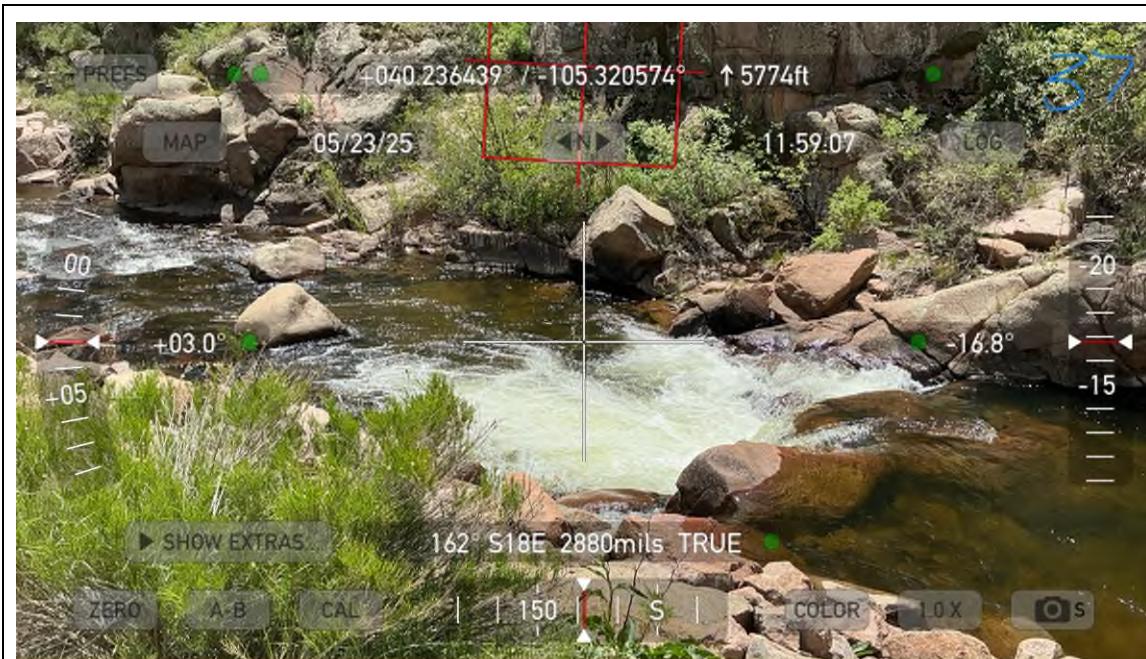
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



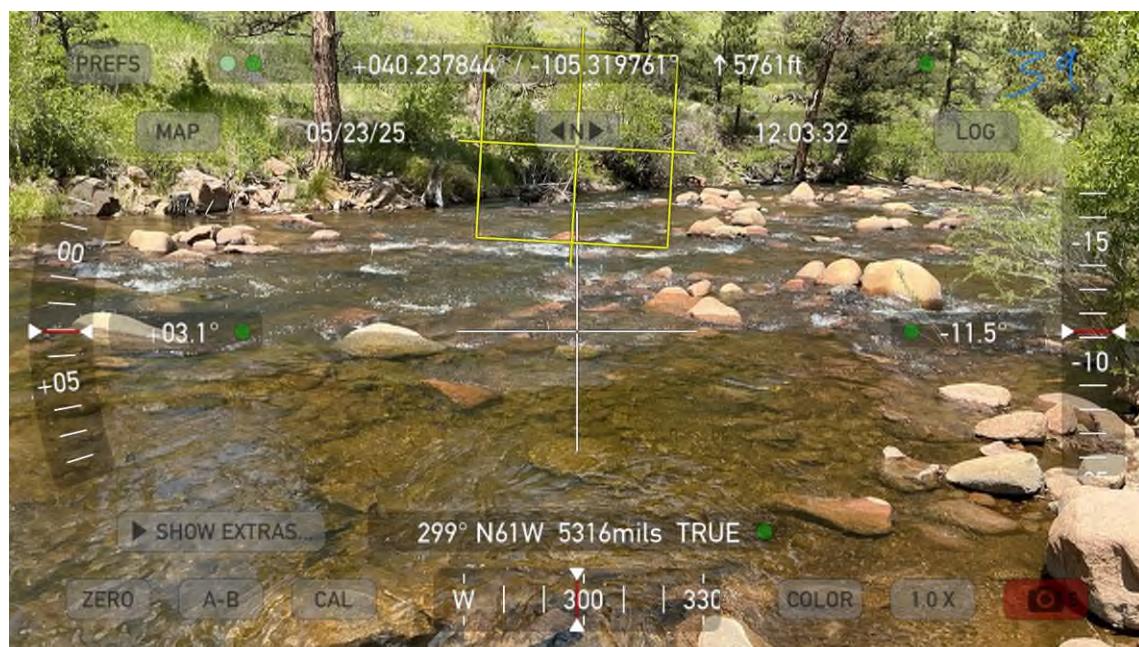
Photograph: 11

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 12

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

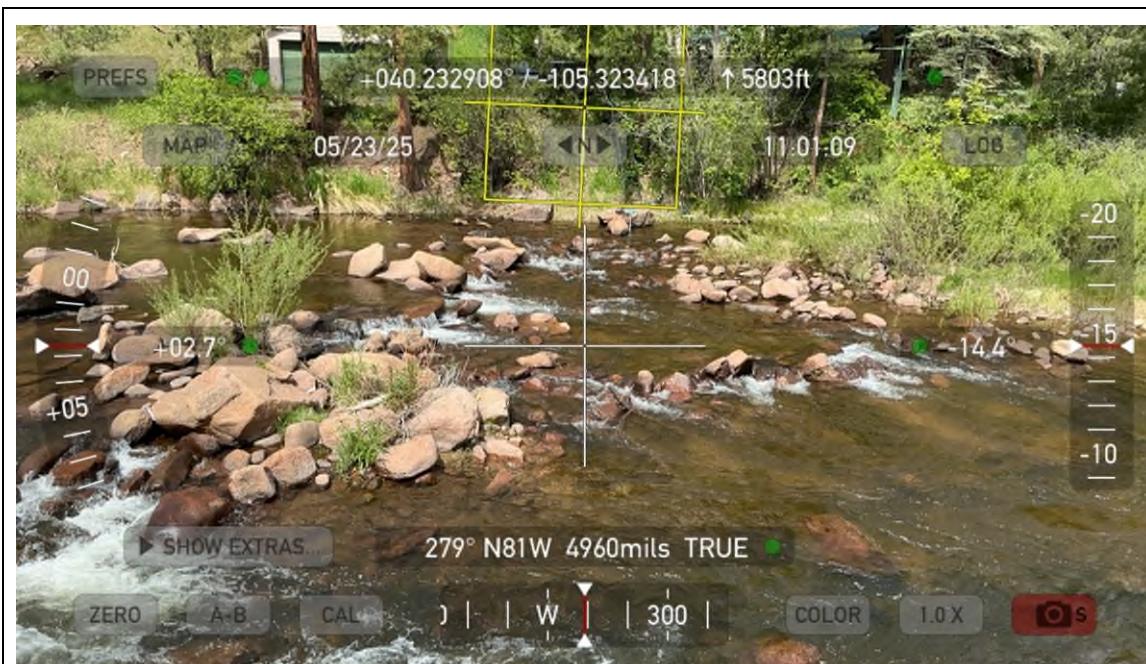
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



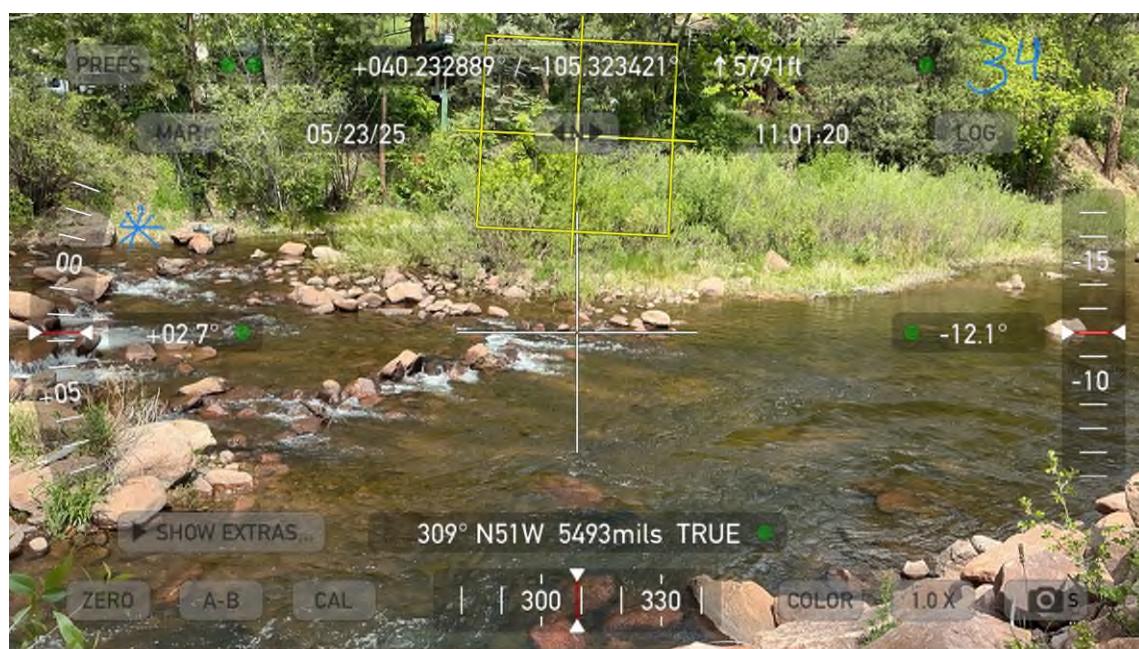
Photograph: 13

Date: 5/23/2025

Location: Lyons, CO

Description:

Black & Green pump in the water. No meters observed. Have a constructed well that is 260 ft. deep and another abandoned well.



Photograph: 14

Date: 5/23/2025

Location: Lyons, CO

Description:

Black & Green pump in the water view 2.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 15

Date: 5/23/2025

Location: Lyons, CO

Description:

Water diversion for black and green pumps. Parcel owner is technically Linda K & John K Whiteman Reinhardt. The pump goes up to Kent Schulte property. He has a permitted green pump- possibly expired use 2017

<https://dwr.state.co.us/Tools/Structures/0501225>

<https://dwr.state.co.us/Tools/Structures/0501225>



Photograph: 16

Date: 5/23/2025

Location: Lyons, CO

Description:

Location 225. Shallow Well. Parcel owner is technically Linda K & John K Whiteman Reinhardt. Kent Schulte property has a house in view.

<https://dwr.state.co.us/Tools/WellPermits/0346566B>

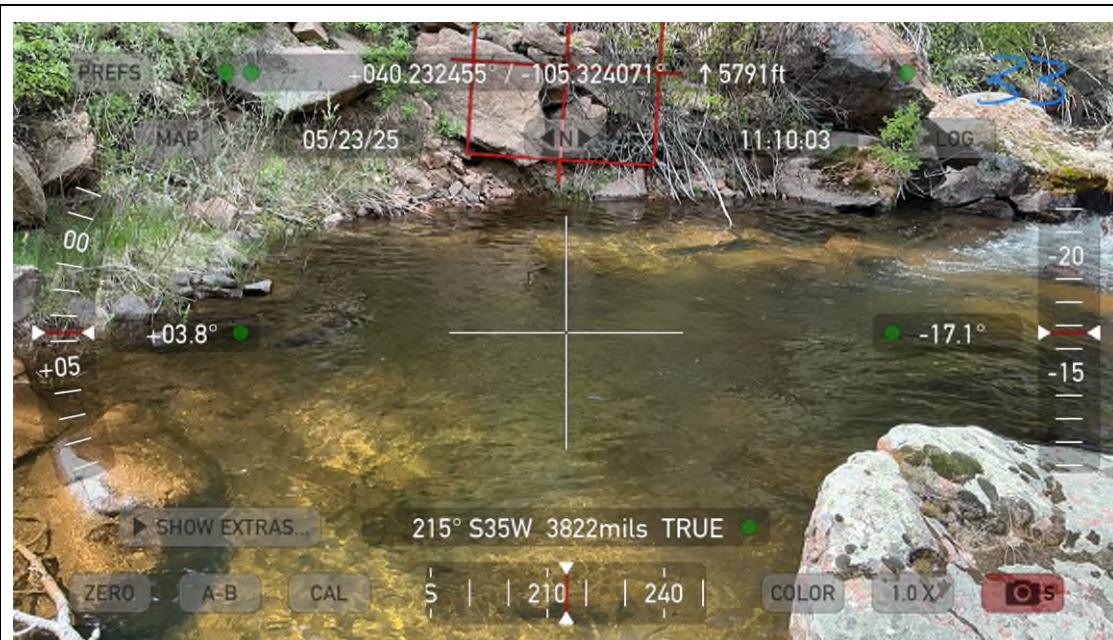
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



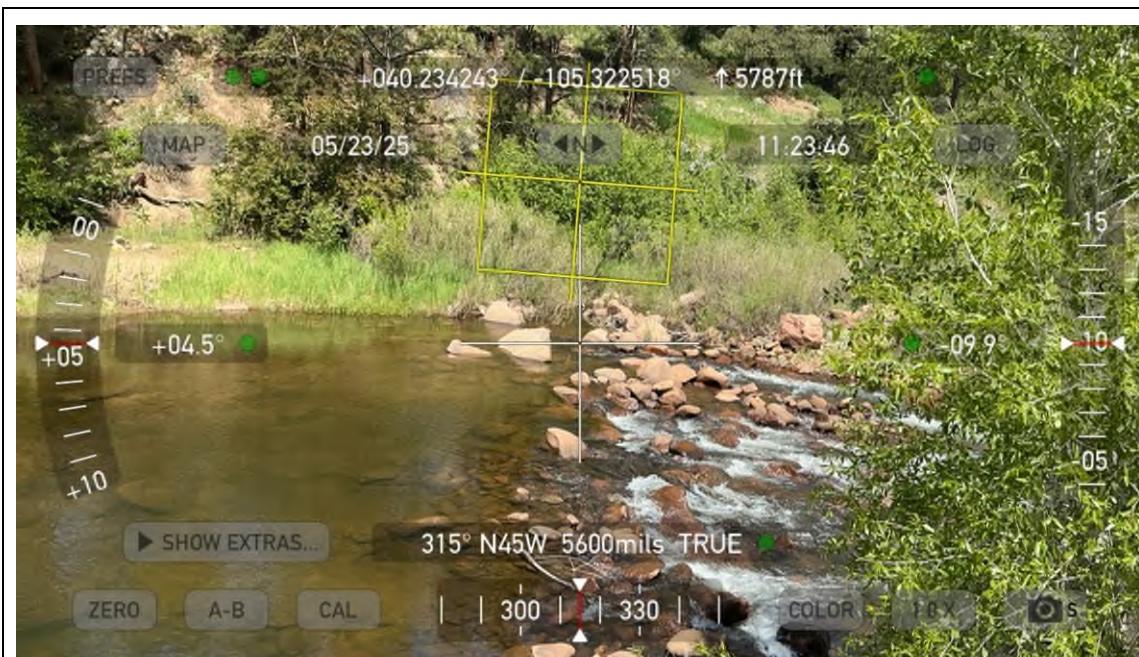
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 19

Date: 5/23/2025

Location: Lyons, CO

Description:
Natural - No Concerns



Photograph: 20

Date: 5/23/2025

Location: Lyons, CO

Description:
Possible shallow well of 170 ft.
Parcel owner is technically Linda K & John K Whiteman Reinhardt. Warner Family Cabins holds the well permit.
<https://dwr.state.co.us/Tools/WellPermits/0257583>

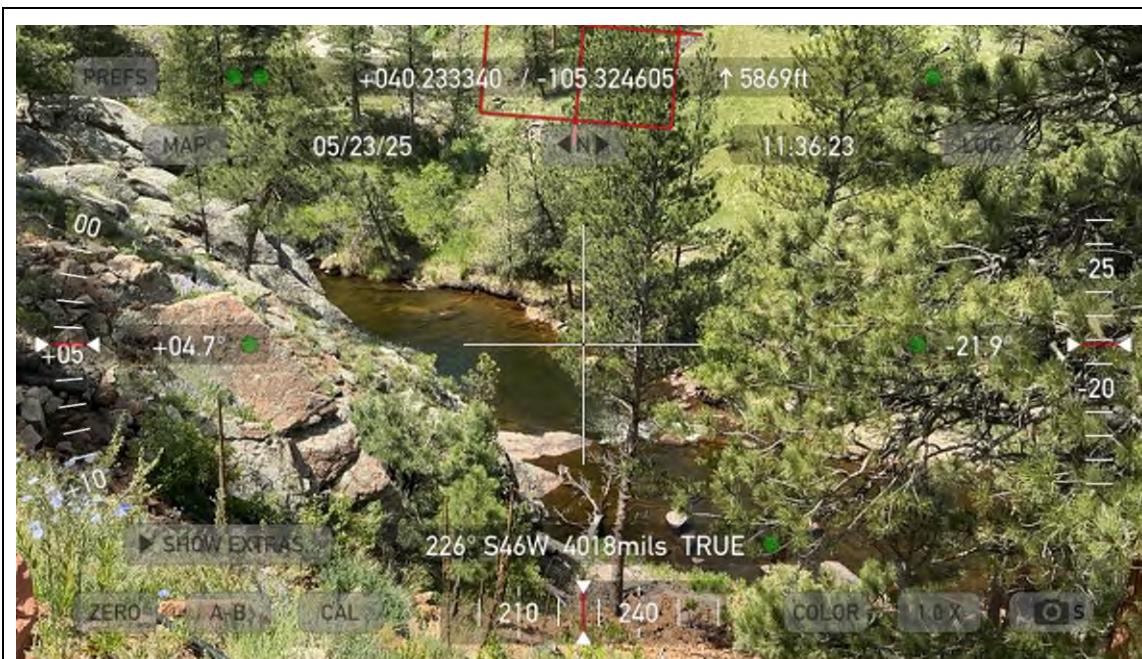
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

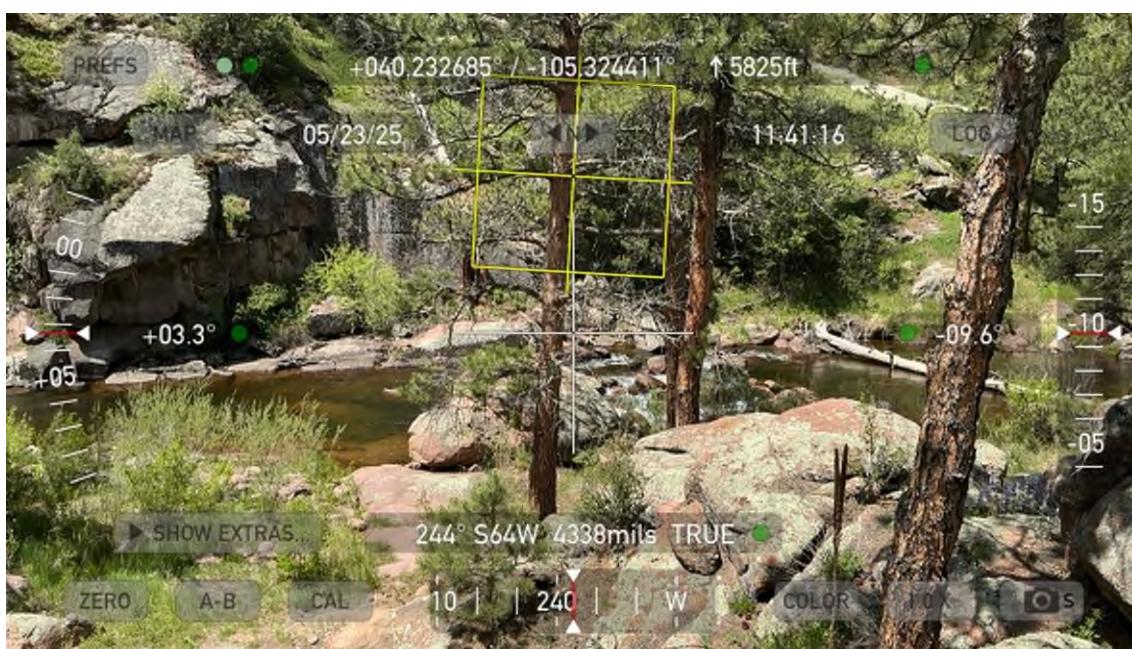


Photograph: 21

Date: 5/23/2025

Location: Lyons, CO

Description:
Natural - No Concerns



Photograph: 22

Date: 5/23/2025

Location: Lyons, CO

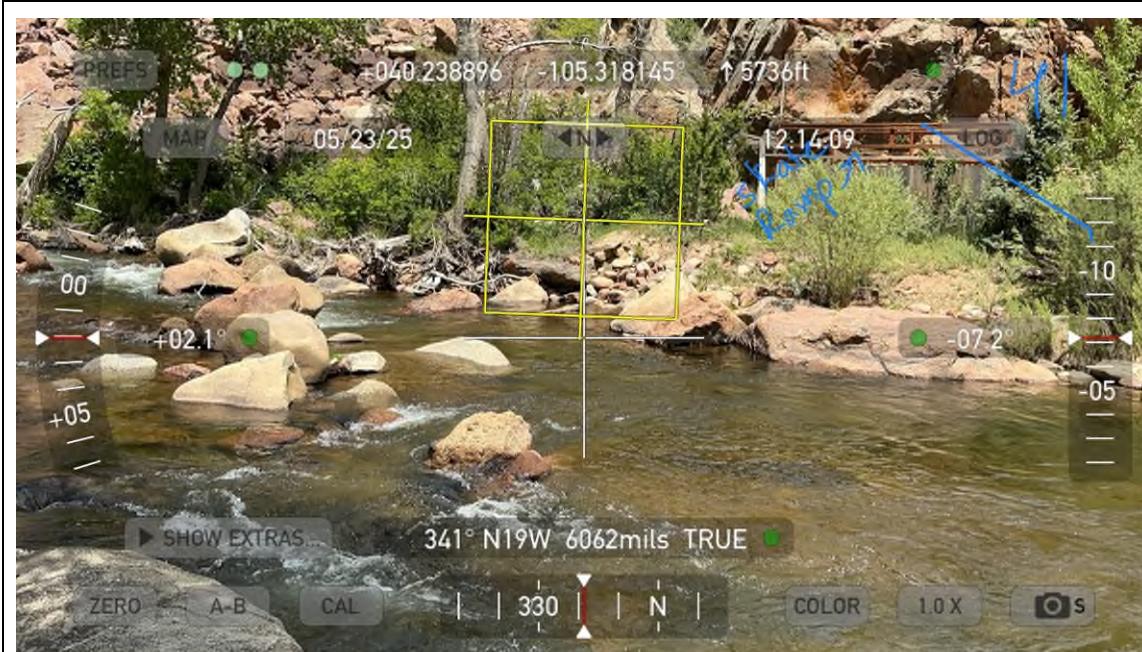
Description:
Natural - No Concerns

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

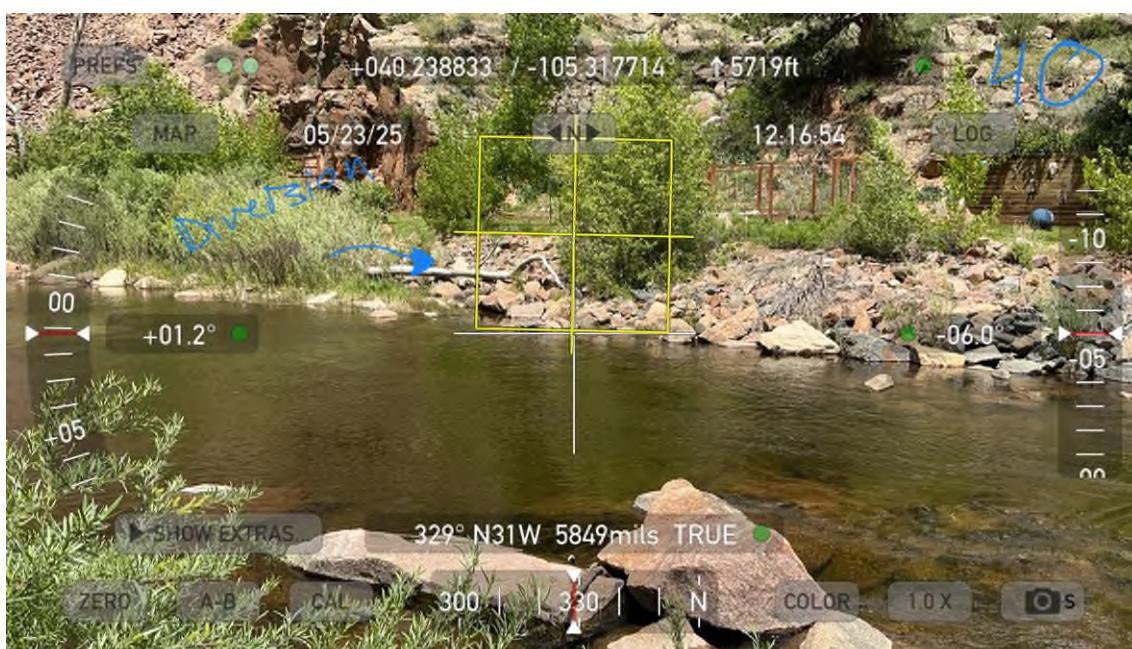


Photograph: 23

Date: 5/23/2025

Location: Lyons, CO

Description: Location 41 is a skate ramp - no diversion.



Photograph: 24

Date: 5/23/2025

Location: Lyons, CO

Description: *Small Diversion to garden, Aaron Lawson was very nice and happy to answer more questions: 720-938-4854. This section does appear to be part of the City of Boulder property; his property is adjacent. Water rights belong to DeBoom Surface Diversion, King Surface Diversion, and Lyons Properties, LLC.*

<https://dwr.state.co.us/Tools/Structures/0501215>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

	<p>Photograph: 25</p> <p>Date: 5/23/2025</p> <p>Location: Lyons, CO</p> <p>Description: Aaron Lawson - pump in river records indicate Lawson Pump https://dwr.state.co.us/Tools/Structures/0501046</p>

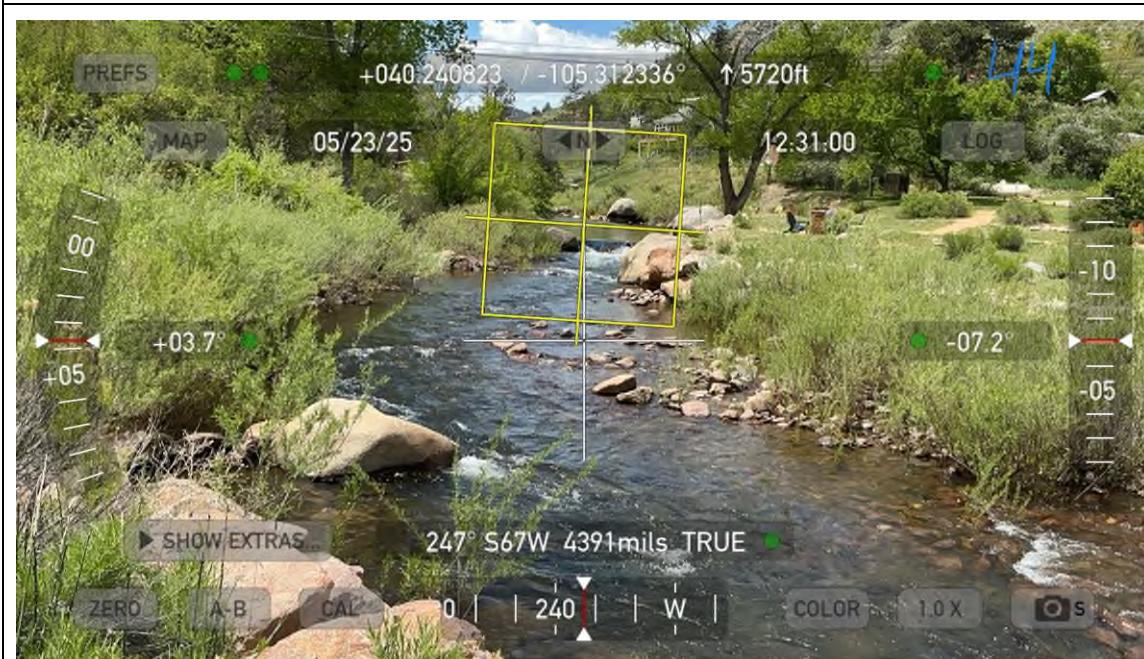
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 28

Date: 5/23/2025

Location: Lyons, CO

Description:

Pump in water - Sim
Pump 3.

[https://dwr.state.co.us/
Tools/Structures/0501289](https://dwr.state.co.us/Tools/Structures/0501289)



Photograph: 29

Date: 5/23/2025

Location: Lyons, CO

Description: Diversion
across the County of
Boulder.

[https://dwr.state.co.us/
Tools/Structures/0505513](https://dwr.state.co.us/Tools/Structures/0505513)

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 30

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 31

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns.

However, there is a shallow well here of 18 ft. and a small winery business- Rusty Vines Vineyard. Heather & Rex Heiby.

<https://dwr.state.co.us/Tools/WellPermits/0264430A>

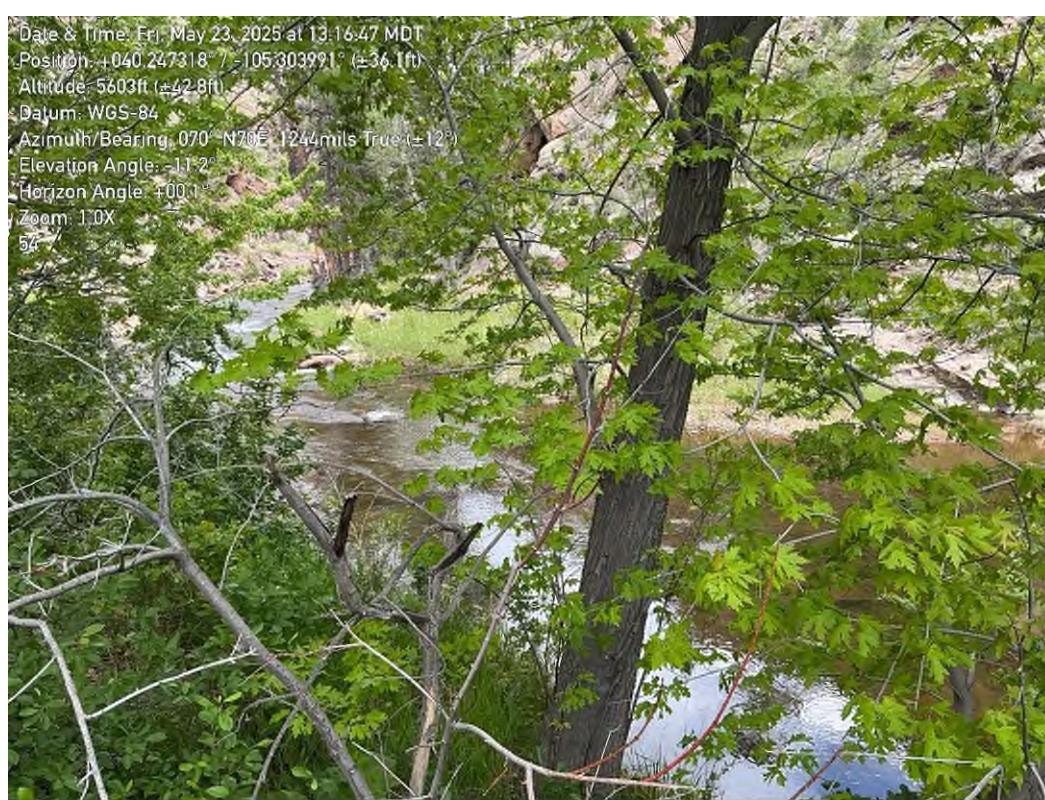
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 32

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 33

Date: 5/23/2025

Location: Lyons, CO

Description:

Water through grates of approximately 1" bars.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

Date & Time: Fri, May 23, 2025 at 13:22:51 MDT
Position: +040.248790° / -105.297162°, ±2.1ft
Altitude: 5572ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 154° S26E 2736mils True (+12°)
Elevation Angle: -08.2°
Horizon Angle: +05.6°
Zoom: 1.0X
240 pipe



Photograph: 34

Date: 5/23/2025

Location: Lyons, CO

Description:

Older pipe - possibly part of above diversion.

Date & Time: Fri, May 23, 2025 at 13:32:23 MDT
Position: +040.247859° / -105.289837°, (±23.3ft)
Altitude: 5537ft (±25.6ft)
Datum: WGS-84
Azimuth/Bearing: 358° N02W 6364mils True (+12°)
Elevation Angle: ~12.9°
Horizon Angle: +03.4°
Zoom: 1.0X
219



Photograph: 35

Date: 5/23/2025

Location: Lyons, CO

Description:

Water underpass - not correlating to water rights data.
Approximately 5 ft.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Fri, May 23, 2025 at 13:37:41 MDT Position: +040.247976 / -105.288469° (±25.4ft) Altitude: 5540ft (±26.0ft) Datum: WGS-84 Azimuth/Bearing: 181° S01W 3218mils True (±12°) Elevation Angle: -10.3° Horizon Angle: +04.9° Zoom: 1.0X 58</p> 	<p>Photograph: 36 Date: 5/23/2025 Location: Lyons, CO Description: St. Vrain & Left-hand water conservancy ditch.</p>
<p>Date & Time: Fri, May 23, 2025 at 13:40:47 MDT Position: +040.247910 / -105.288735° (±24.0ft) Altitude: 5526ft (±25.0ft) Datum: WGS-84 Azimuth/Bearing: 172° S08E 3058mils True (±12°) Elevation Angle: -08.0° Horizon Angle: +03.6° Zoom: 1.0X 241</p> 	<p>Photograph: 37 Date: 5/23/2025 Location: Lyons, CO Description: <i>Ditch that is approximately 12" wide where it narrows on shore and approximately 20' long diversion in stream. There is possible association this water right: Appears expired.</i> https://dwr.state.co.us/Tools/Structures/0505283 or https://dwr.state.co.us/Tools/Structures/0505276</p>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Fri, May 23, 2025 at 15:31:24 MDT Position: +040.246647° / -105.286774° ($\pm 23.7\text{ ft}$) Altitude: 5533ft ($\pm 23.8\text{ ft}$) Datum: WGS-84 Azimuth/Bearing: 280° N80W 4978mils True ($\pm 12'$) Elevation Angle: -27.5° Horizon Angle: +10.4° Zoom: 1.0X - 62</p> 	<p>Photograph: 38 Date: 5/23/2025 Location: Lyons, CO Description: <i>Black pipe running back from pump on next picture. Undetermined end point/alignment, possibly under road.</i></p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



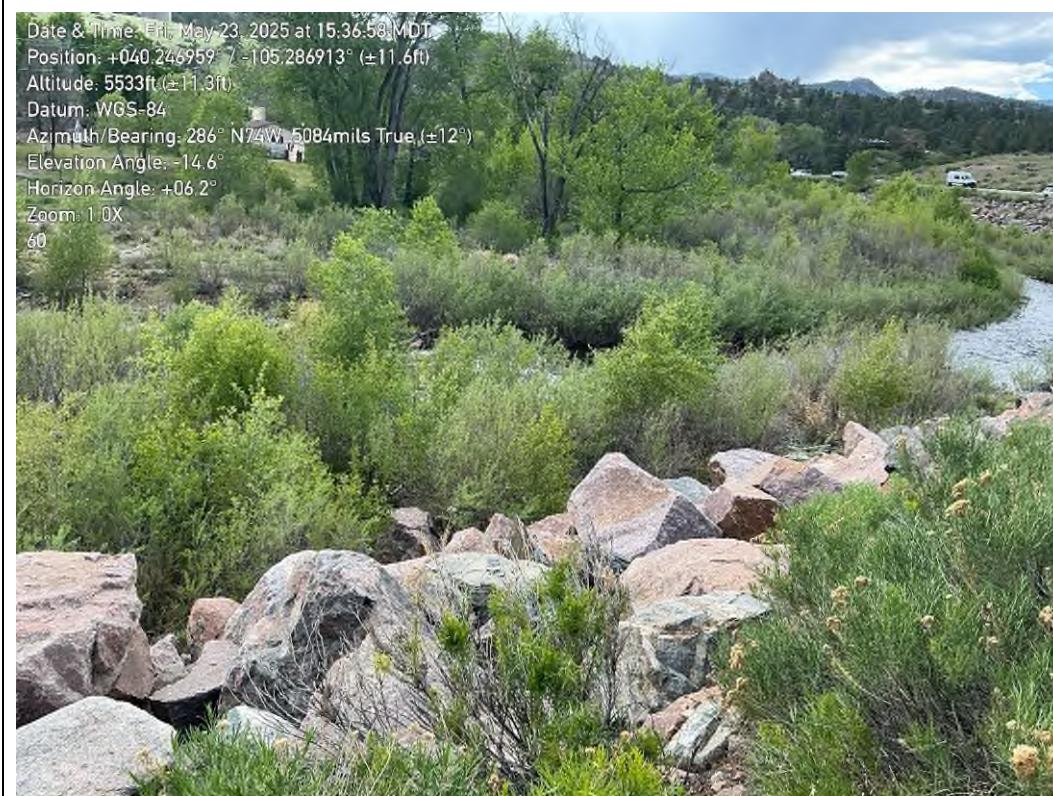
Photograph: 39

Date 5/23/2025

Location: Lyons, CO

Description:

Pump in water not associated with any water right. Goes back upstream and possibly under road.



Photograph: 40

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concern.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



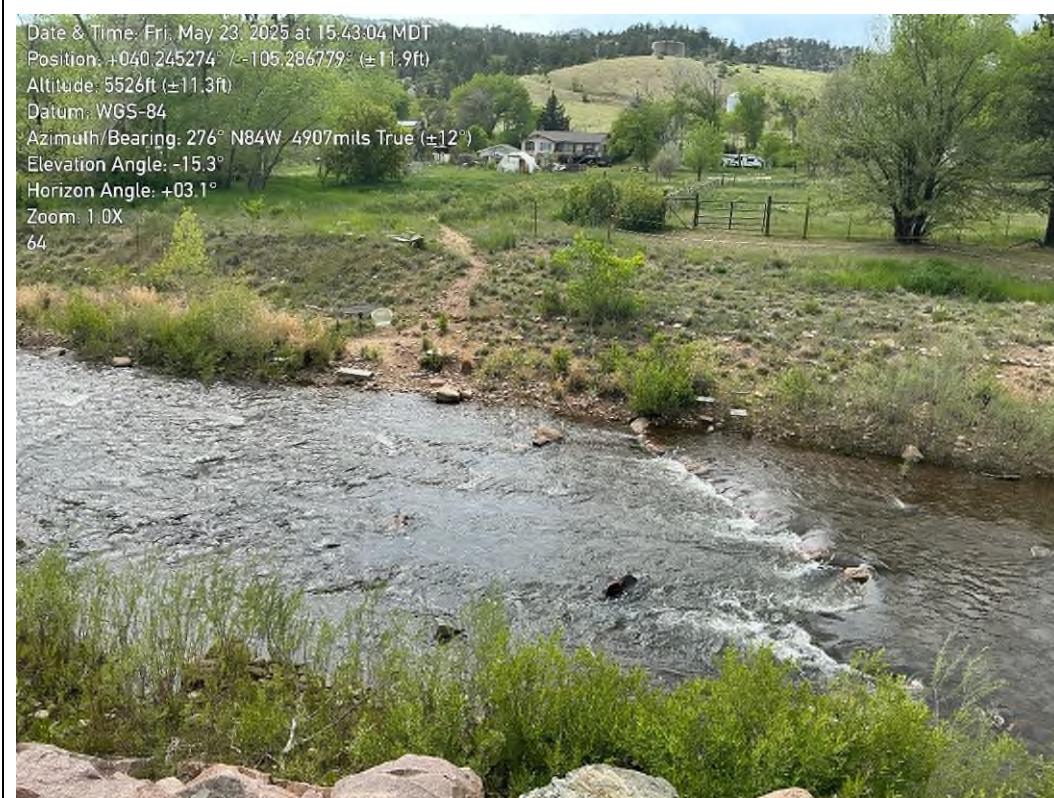
Photograph: 41

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - Beach area does exist where pumping could occur.



Photograph: 42

Date: 5/23/2025

Location: Lyons, CO

Description:

Black pipe present- roughly 1". Possible water right connection.

<https://dwr.state.co.us/Tools/Structures/0505582>

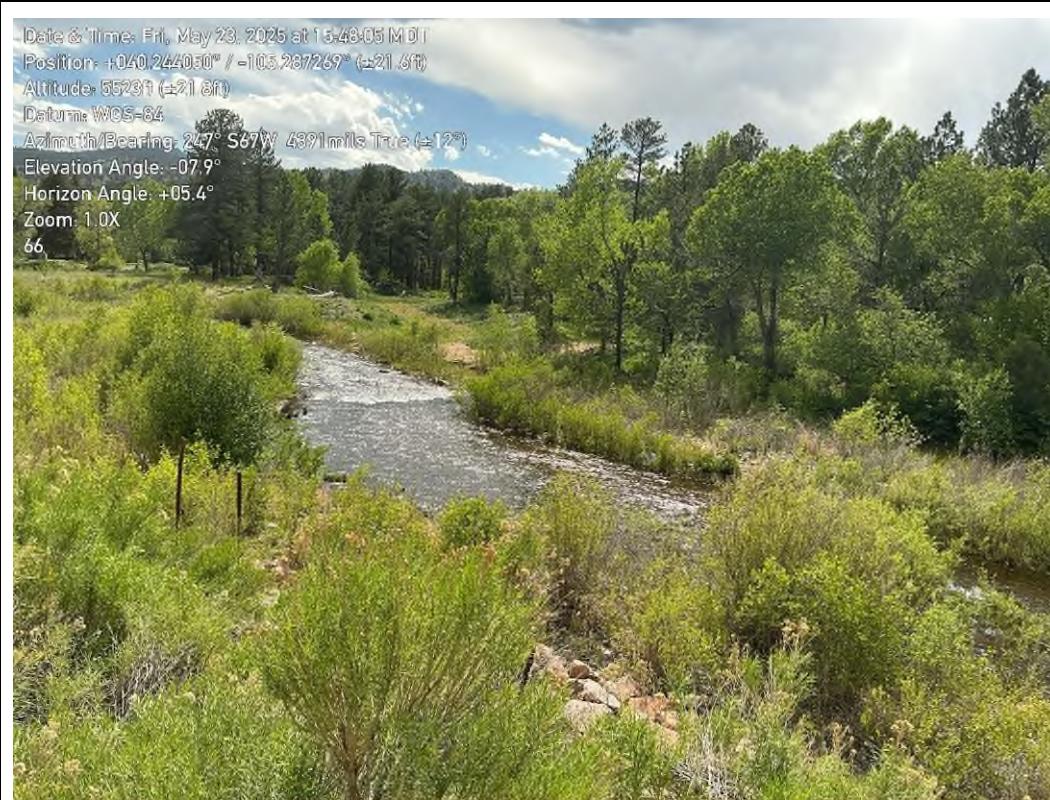
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 43

Date: 5/23/2025

Location: Lyons, CO

Description:

Diversion County of Boulder property - Looks approximately 30' wide with higher flows.



Photograph: 44

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 45

Date 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 46

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

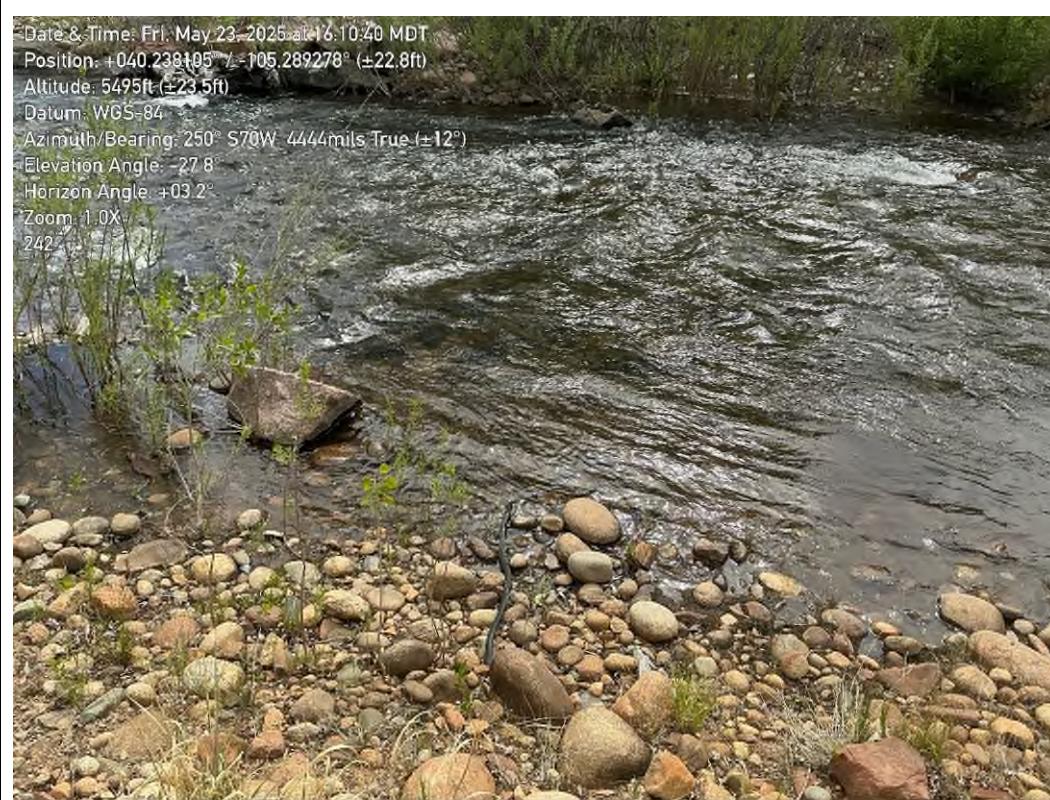
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



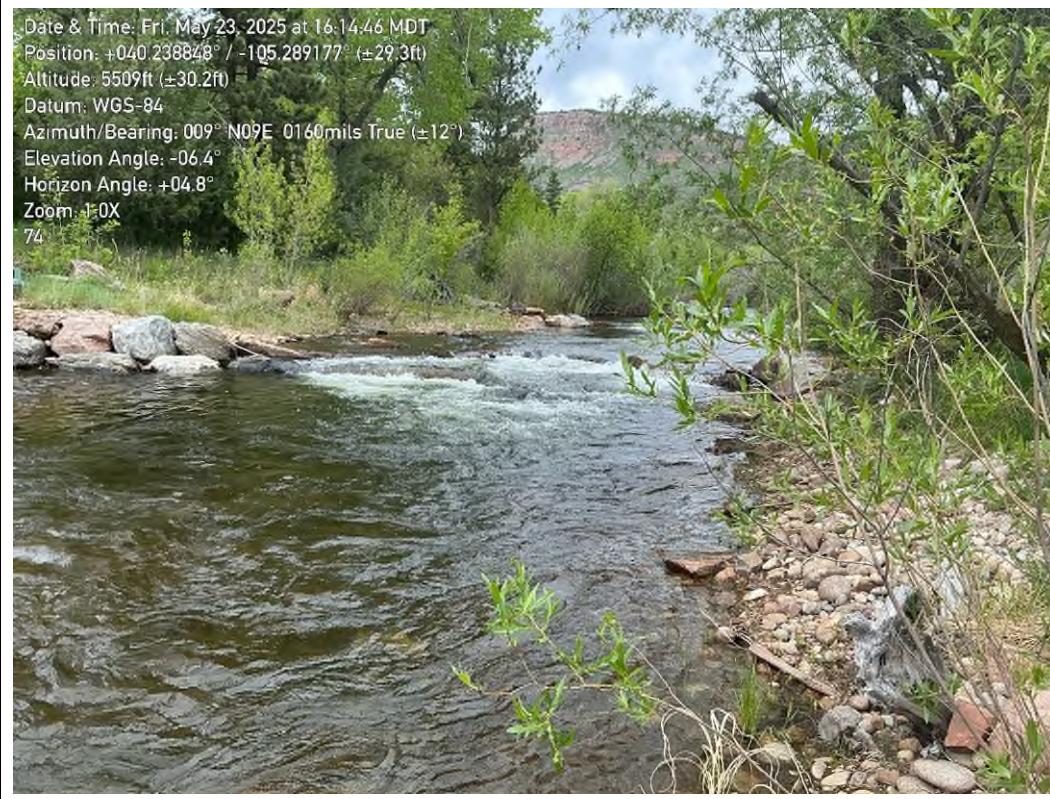
Photograph: 47

Date: 5/23/2025

Location: Lyons, CO

Description:

Black 1" tube in river that goes to Donald & Dawn Elsberry - no associated water right observed.



Photograph: 48

Date: 5/23/2025

Location: Lyons, CO

Description:

No pipe observed in water, beach space where pumping could occur.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 49

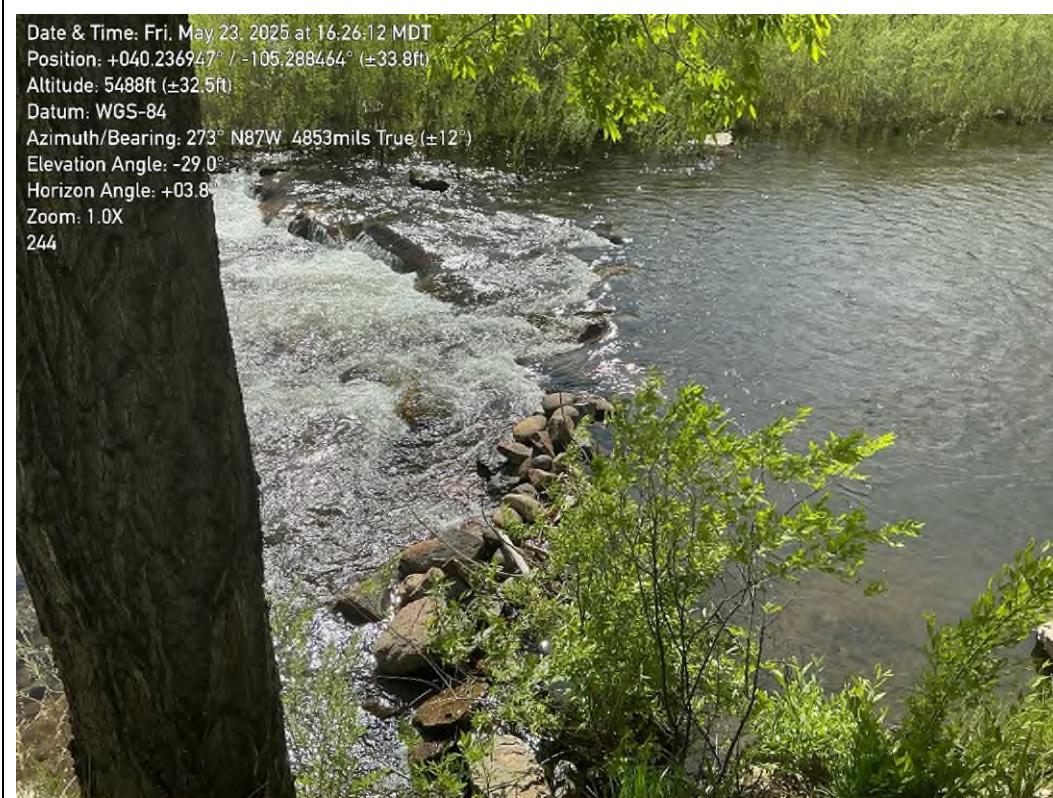
Date: 5/23/2025

Location: Lyons, CO

Description:

Black and white pipe for pumping in background. Belongs to Burdock Hollow LLC – no meters observed.

<https://dwr.state.co.us/Tools/Structures/0501273>



Photograph: 50

Date: 5/23/2025

Location: Lyons, CO

Description:

Man made weir by River Ministries - Gladly granted access to river. There is also a shallow well, 53 ft. in depth in the parking lot.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<https://dwr.state.co.us/Tools/Structures/0504099>
<https://dwr.state.co.us/Tools/Structures/0504099>

Date & Time: Fri, May 23, 2025 at 16:32:21 MDT
 Position: +040.236282° / -105.288332° (±13.4ft)
 Altitude: 5486ft (±13.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 277° N83W 4924mils True (±12°)
 Elevation Angle: -11.5°
 Horizon Angle: +04.1°
 Zoom: 1.0X
 177



Photograph: 51

Date: 5/23/2025

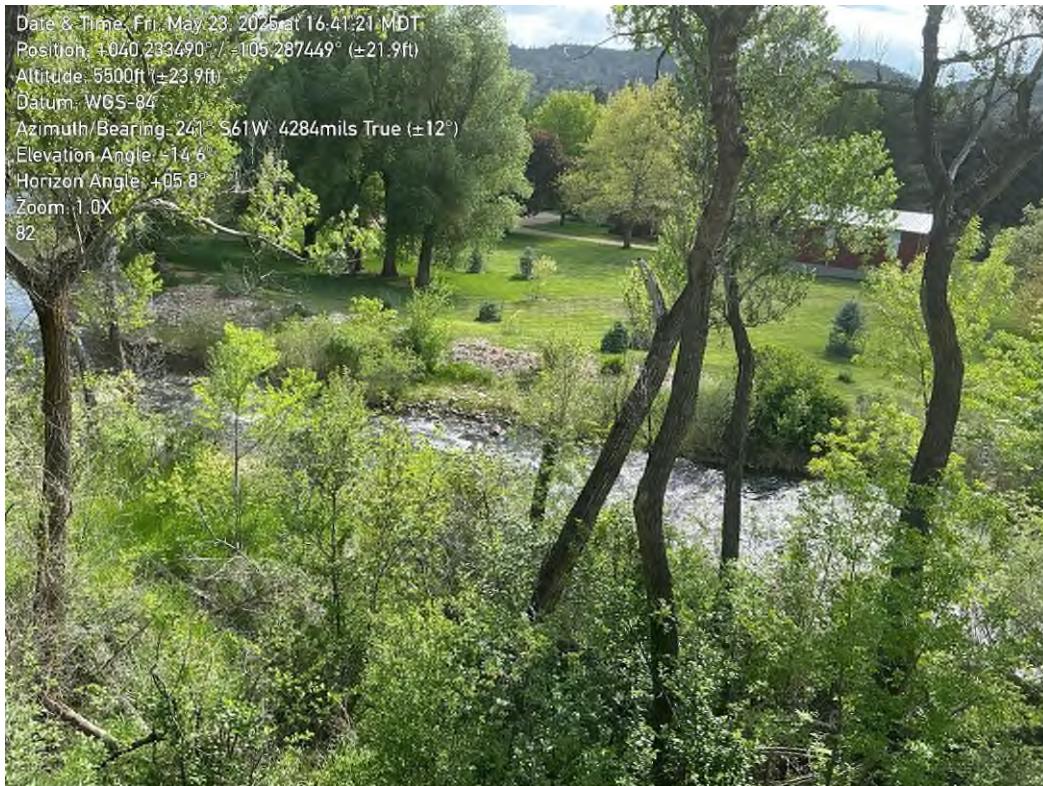
Location: Lyons, CO

Description:

Diversion to Apple Valley Pond - Left Hand has opposed this before and the pond was limited to 50-acre ft per year - no meter was observed. Owner is M+JB Holdings LLC

<https://dwr.state.co.us/Tools/Structures/0504099/0504099>

Date & Time: Fri, May 23, 2025 at 16:41:21 MDT
 Position: +040.233490° / -105.287449° (±21.9ft)
 Altitude: 5500ft (±23.9ft)
 Datum: WGS-84
 Azimuth/Bearing: 241° S61W 4284mils True (±12°)
 Elevation Angle: -14.6°
 Horizon Angle: +05.8°
 Zoom: 1.0X
 82



Photograph: 52

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

Date & Time: Fri, May 23, 2025 at 16:50:55 MDT
Position: +040.233991° / -105.287554° (± 19.1 ft)
Altitude: 5508ft (± 22.1 ft)
Datum: WGS-84
Azimuth/Bearing: 283° N77W 5031mils True ($\pm 12^{\circ}$)
Elevation Angle: -15.9°
Horizon Angle: +03.5°
Zoom: 1.0X
79



Photograph: 53

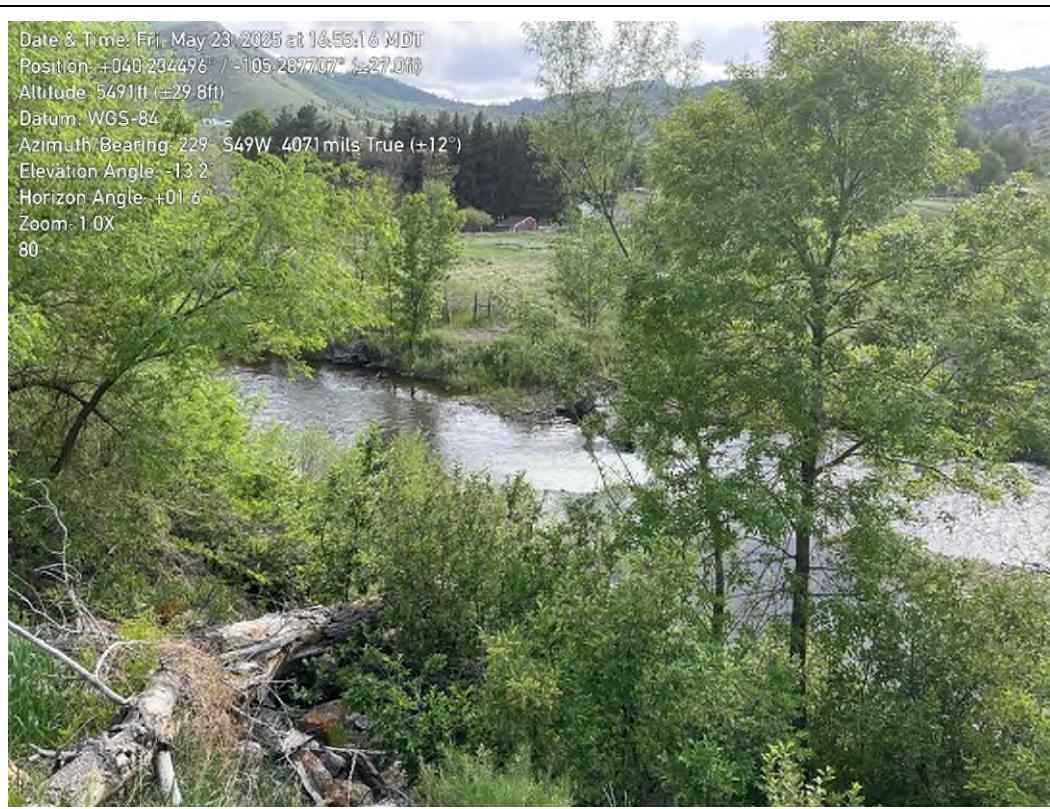
Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

Date & Time: Fri, May 23, 2025 at 16:55:16 MDT
Position: +040.234496° / -105.287707° (± 27.9 ft)
Altitude: 5491ft (± 29.8 ft)
Datum: WGS-84
Azimuth/Bearing: 229° S49W 4071mils True ($\pm 12^{\circ}$)
Elevation Angle: -13.2°
Horizon Angle: +01.6°
Zoom: 1.0X
80



Photograph: 54

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

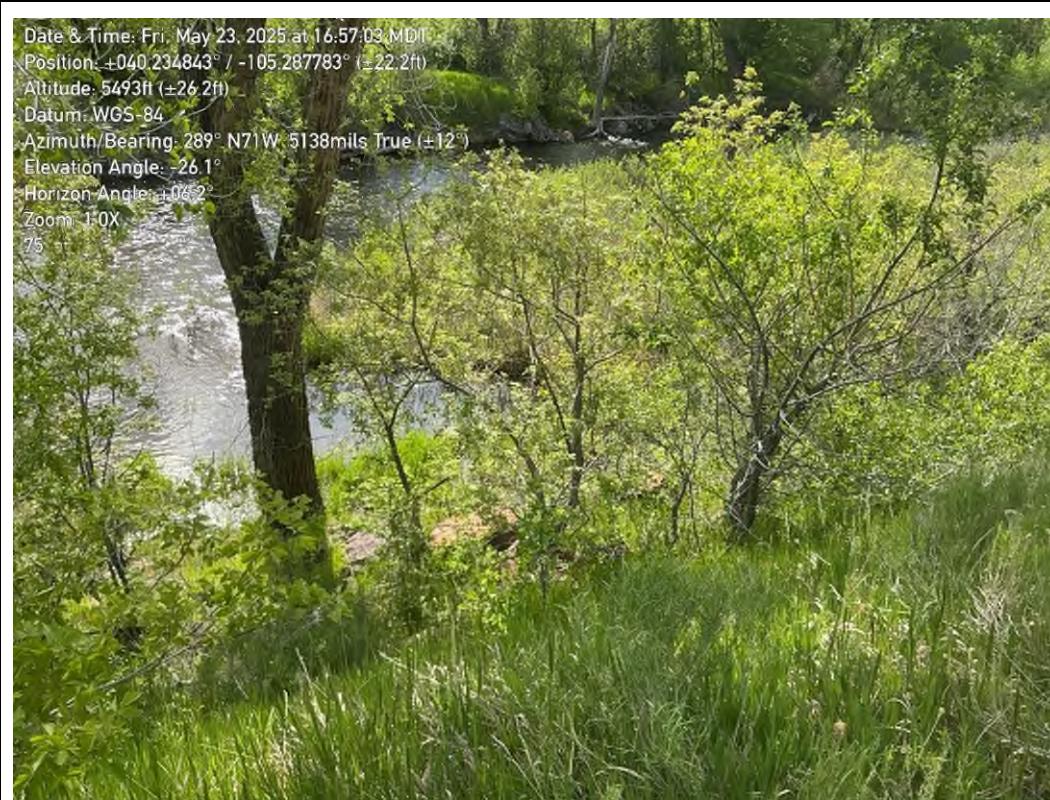
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 55

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 56

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concerns

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Fri, May 23, 2025 at 17:21:06 MDT Position: +040.229065° / -105.276537° (± 16.6 ft) Altitude: 5423ft (± 16.8 ft) Datum: WGS-84 Azimuth/Bearing: 110° S70E 1956mils True ($\pm 13°$) Elevation Angle: -10.7° Horizon Angle: +02.4° Zoom: 1.0X 101</p> 	<p>Photograph: 57 Date 5/23/2025 Location: Lyons, CO Description: North Saint Vrain Creek – Evans Ditch.</p>
<p>Date & Time: Fri, May 23, 2025 at 17:23:18 MDT Position: +040.229204° / -105.276615° (± 20.6 ft) Altitude: 5418ft (± 17.7 ft) Datum: WGS-84 Azimuth/Bearing: 292° N68W 5191mils True ($\pm 12°$) Elevation Angle: -08.5° Horizon Angle: +02.0° Zoom: 1.0X 101</p> 	<p>Photograph: 58 Date: 5/23/2025 Location: Lyons, CO Description: <i>Wier built in water. Irrigation pulls upstream from Planet Bluegrass Farm LLC. Extensive irrigation occurring. No water rights found.</i></p>

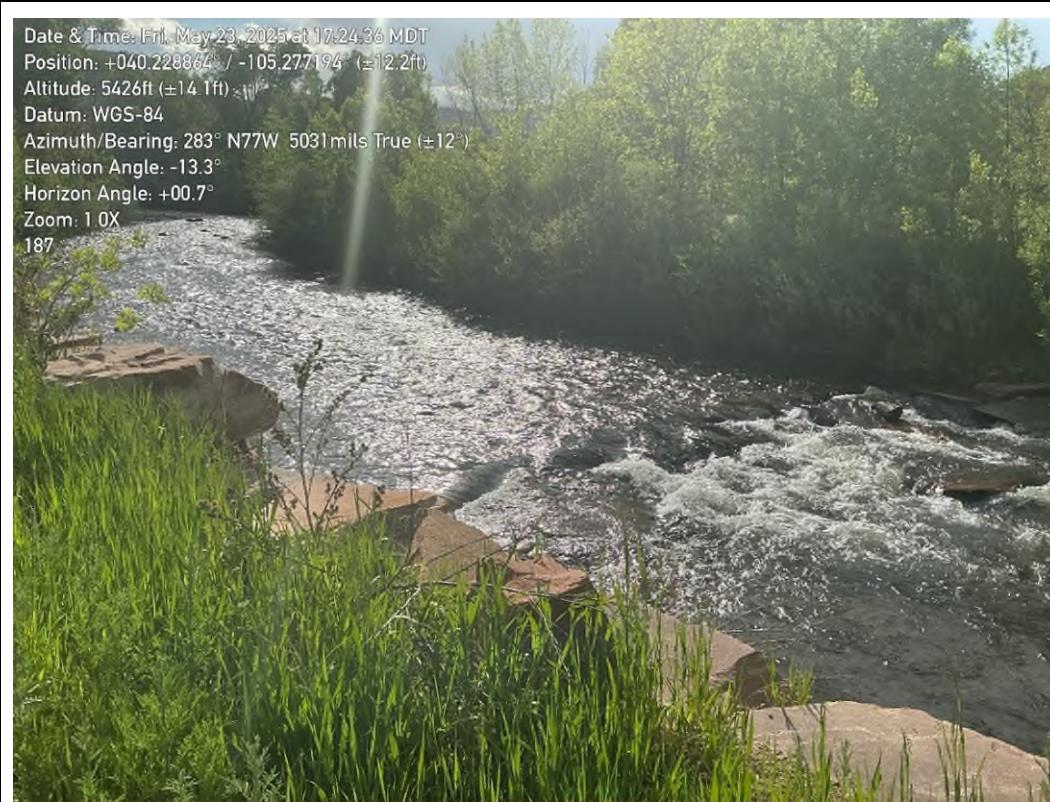
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



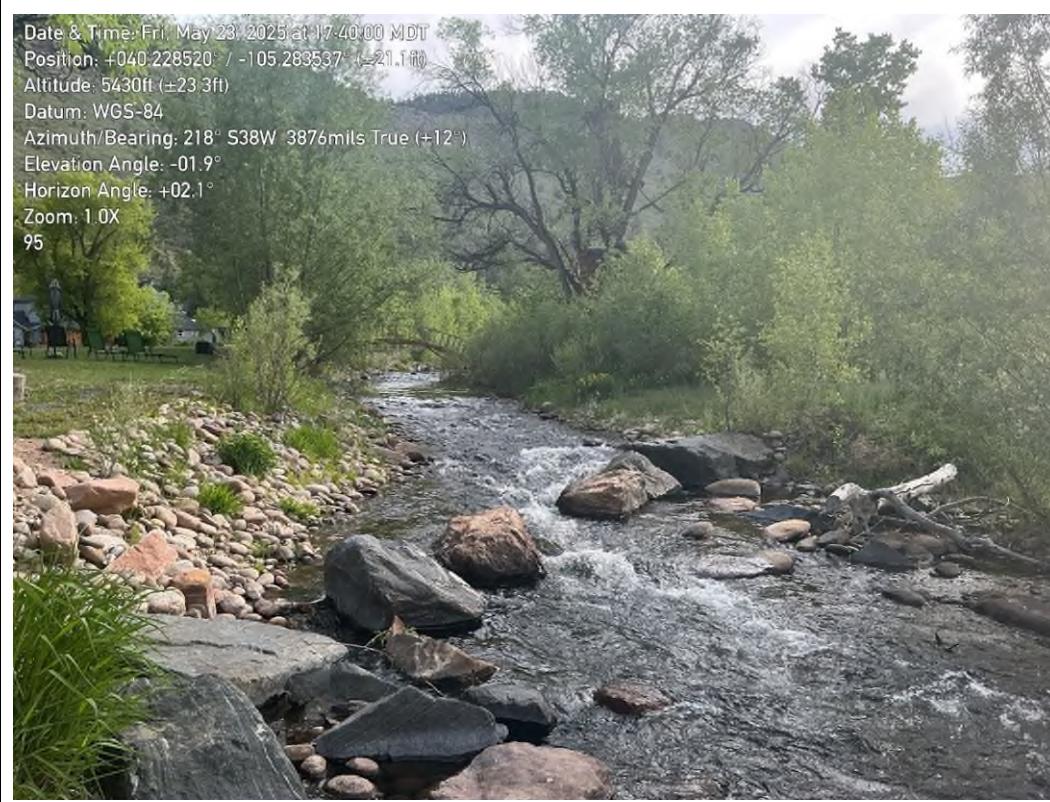
Photograph: 59

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concern



Photograph: 60

Date: 5/23/2025

Location: Lyons, CO

Description:

Possibly man-made. No water pulls observed.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Fri, May 23, 2025 at 17:40:08 MDT Position: +040 228520° / -105 283544° (± 21.4 ft) Altitude: 5432ft (± 24.0 ft) Datum: WGS-84 Azimuth/Bearing: 270° N90W 4800mils True (± 12°) Elevation Angle: -03.2° Horizon Angle: +01.0° Zoom: 1.0X 95 other split view</p> 	<p>Photograph: 61 Date: 5/23/2025 Location: Lyons, CO Description: Natural - No Concern</p>
<p>Date & Time: Fri, May 23, 2025 at 17:49:45 MDT Position: +040 227702° / -105 284394° (± 12.6 ft) Altitude: 5446ft (± 13.1 ft) Datum: WGS-84 Azimuth/Bearing: 289° N71W 5138mils True (± 12°) Elevation Angle: -16.9° Horizon Angle: +02.5° Zoom: 1.0X 92</p> 	<p>Photograph: 62 Date: 5/23/2025 Location: Lyons, CO Description: <i>Natural - Shallow well nearby - Dean Richard Revocable Trust - Kindly let us on property and say his water is not metered but he believes he uses close to what he is permitted for.</i> Pump 1 & 2 https://dwr.state.co.us/Tools/Structures/0501295 & https://dwr.state.co.us/Tools/Structures/0501218</p>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Fri, May 23, 2025 at 17:58:38 MDT Position: +040.227959°, -105.285256° ($\pm 11.1\text{ft}$) Altitude: 5449ft ($\pm 12.4\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 302° N58W 5369mils True ($\pm 12^\circ$) Elevation Angle: -34.8° Horizon Angle: +01.5° Zoom: 1.0X</p>  A photograph of a wooden post standing in a grassy area. A red and white sign is attached to the post, reading "TOWN OF LYONS BURIED WATER LINE". In the background, there is a green wheelbarrow, some rocks, and a large red rock.	<p>Photograph: 63 Date: 5/23/2025 Location: Lyons, CO Description: Lyons water line.</p>

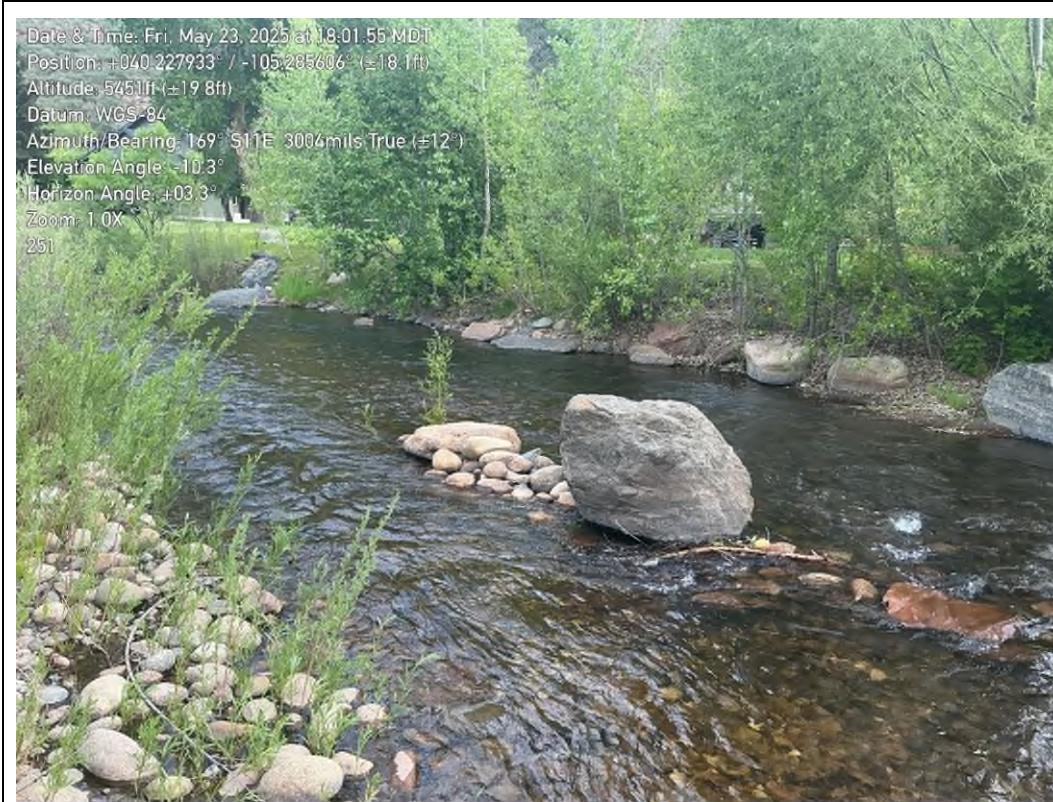
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 64

Date: 5/23/2025

Location: Lyons, CO

Description:

No concern - possibly man-made erosion control or flow control structure.



Photograph: 65

Date: 5/23/2025

Location: Lyons, CO

Description:

Man-made energy dissipation control - no concern.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 66

Date: 5/23/2025

Location: Lyons, CO

Description:

Pump by river-correlates to Peterson Pump.

<https://dwr.state.co.us/Tools/Structures/0501224>



Photograph: 67

Date: 5/23/2025

Location: Lyons, CO

Description:

The city of Boulder buried water.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 68

Date 5/23/2025

Location: Lyons, CO

Description:

City of Boulder Water



Photograph: 69

Date: 5/23/2025

Location: Lyons, CO

Description:

Small weir on Boulder Property. Not a diversion.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 70

Date: 5/23/2025

Location: Lyons, CO

Description:

Natural - No Concern



Photograph: 71

Date: 5/23/2025

Location: Lyons, CO

Description:

Longmont pipeline.

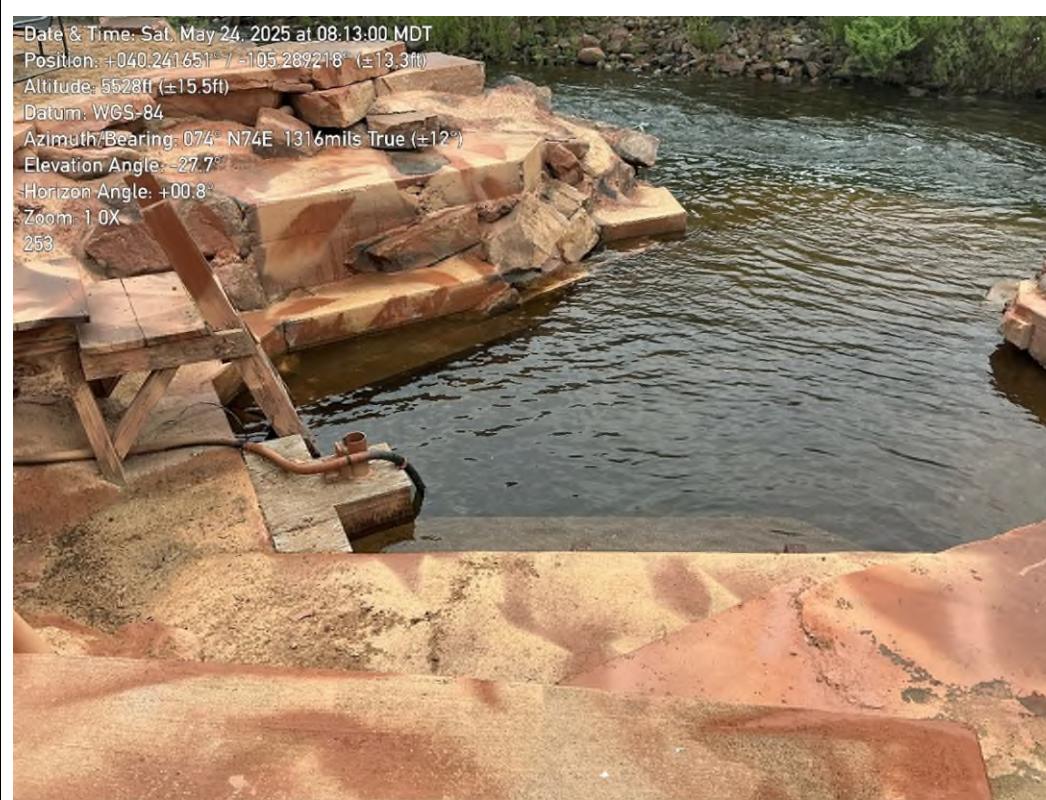
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 72

Date: 5/24/2025

Location: Lyons, CO

Description:

Pool & pump to garden. 50 ft. well is only water right listed. Owner is Tina & Jeff Baurick - Kindly allowed access.

<https://dwr.state.co.us/Tools/WellPermits/0251951>



Photograph: 73

Date: 5/24/2025

Location: Lyons, CO

Description:

Pool view 2.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 74

Date 5/24/2025

Location: Lyons, CO

Description:

Natural - No Concern.



Photograph: 75

Date: 5/24/2025

Location: Lyons, CO

Description:

Diversion pipe - 22" opening.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 76

Date 5/24/2025

Location: Lyons, CO

Description:

Measurement for pipe. On County of Boulder property.



Photograph: 77

Date: 5/24/2025

Location: Lyons, CO

Description:

Pipe controls for above photo.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 08:18:15 MDT Position: +040.240465° / -105.289340° ($\pm 21.8\text{ft}$) Altitude: 5313ft ($\pm 26.1\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 240° S60W 4267mils True ($\pm 12^\circ$) Elevation Angle: -00.4° Horizon Angle: +04.5° Zoom: 1.0X 173 similar pipe on neighboring property... south side</p> 	<p>Photograph: 78 Date: 5/24/2025 Location: Lyons, CO Description: The similar sized pipe is on neighbors' property of Burdock Hollow LLC. This is listed as Sosey Ditch Flow Control for North Saint Vrain Creek.</p>
<p>Date & Time: Sat, May 24, 2025 at 08:21:26 MDT Position: +040.239851° / -105.289359° ($\pm 25.5\text{ft}$) Altitude: 5494ft ($\pm 30.0\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 091° S89E 1618mils True ($\pm 20^\circ$) Elevation Angle: -09.7° Horizon Angle: -02.9° Zoom: 1.0X 73</p> 	<p>Photograph: 79 Date: 5/24/2025 Location: Lyons, CO Description: <i>Blue pumps takes water to red shipping container and there is mass irrigation. They have one expired permit & a point of diversion that may have expired in 2015. Land belongs to Janis & James McCain.</i> https://dwr.state.co.us/Tools/Structures/0505598</p>

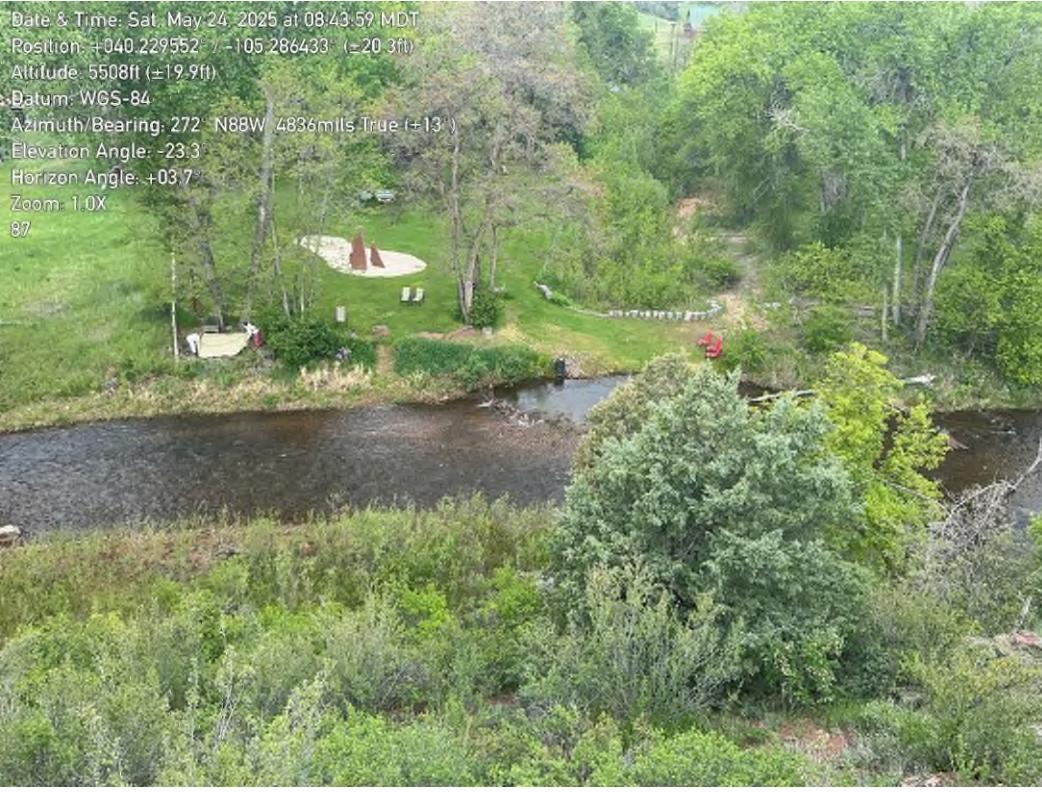
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 08:24:31 MDT Position: +040.240364° / -105.289568° (±9.2ft) Altitude: 5496ft (±10.4ft) Datum: WGS-84 Azimuth/Bearing: 121° S59E 2151mils True (±15°) Elevation Angle: +01.2° Horizon Angle: +03.5° Zoom: 1.0X 73 cargo box</p> 	<p>Photograph: 80 Date: 5/24/2025 Location: Lyons, CO Description: <i>Second view of shipping container that pump goes to.</i></p>
<p>Date & Time: Sat, May 24, 2025 at 08:43:59 MDT Position: +040.229552° / -105.286433° (±20.3ft) Altitude: 5508ft (±19.9ft) Datum: WGS-84 Azimuth/Bearing: 272° N88W 4836mils True (±13°) Elevation Angle: -23.3° Horizon Angle: +03.7° Zoom: 1.0X 87</p> 	<p>Photograph: 81 Date: 5/24/2025 Location: Lyons, CO Description: <i>Man made weir with black pump station. Possibly expired in 2016 - correlates to:</i> https://dwr.state.co.us/Tools/Structures/0505583</p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 08:59:51 MDT Position: +040.228668, -105.280079° (±15.8ft) Altitude: 5423ft (±17.6ft) Datum: WGS-84 Azimuth/Bearing: 233° S53W 4142mils True (±13°) Elevation Angle: -15.9° Horizon Angle: +03.4° Zoom: 1.0X 97</p> 	<p>Photograph: 82 Date: 5/24/2025 Location: Lyons, CO Description: Bridge for events - no water concerns at this point.</p>
<p>Date & Time: Sat, May 24, 2025 at 09:02:59 MDT Position: +040.228994, -105.280528° (±17.5ft) Altitude: 5434ft (±17.3ft) Datum: WGS-84 Azimuth/Bearing: 211° S31W 3751mils True (±13°) Elevation Angle: -16.0° Horizon Angle: +03.6° Zoom: 1.0X 256</p> 	<p>Photograph: 83 Date: 5/24/2025 Location: Lyons, CO Description: <i>Bank area to possibly draw water. They are drawing from other areas- Black pipe and container directly behind this point. Planet Bluegrass Farms LLC. No water rights observed.</i></p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 09:03:07 MDT Position: +040.228998° / -105.280533° (±17.8ft) Altitude: 5433ft (±17.7ft) Datum: WGS-84 Azimuth/Bearing: 329° N31W 5849mils True (±3°) Elevation Angle: -14.2° Horizon Angle: +03.4° Zoom: 1.0X 256</p> 	<p>Photograph: 84 Date: 5/24/2025 Location: Lyons, CO Description: <i>Shipping container and pipe by river access point above.</i></p>
<p>Date & Time: Sat, May 24, 2025 at 09:04:01 MDT Position: +040.228515° / -105.279313° (±8.1ft) Altitude: 5427ft (±9.8ft) Datum: WGS-84 Azimuth/Bearing: 164° S16E 2916mils True (±13°) Elevation Angle: -22.9° Horizon Angle: +02.3° Zoom: 1.0X 257</p> 	<p>Photograph: 85 Date: 5/24/2025 Location: Lyons, CO Description: <i>Man made weir with pipe. Bluegrass Farms LLC</i></p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



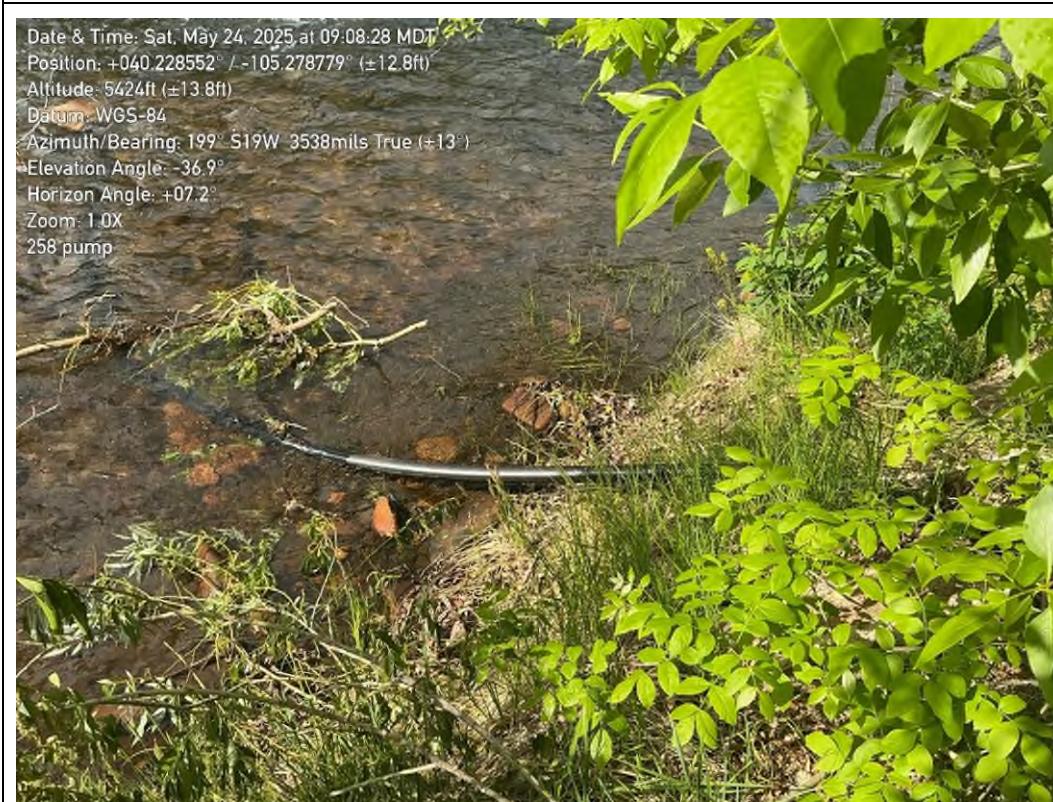
Photograph: 86

Date 5/24/2025

Location: Lyons, CO

Description:

*Pipe by man-made
weir - Bluegrass
Farms LLC*



Photograph: 87

Date: 5/24/2025

Location: Lyons, CO

Description:

*Pumps from river-
2.5" pipe. Waters
almost all the
property. No water
rights observed.
Bluegrass Farms LLC*

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 88

Date: 5/24/2025

Location: Lyons, CO

Description:

Pipes from river to irrigation - Bluegrass Farms LLC



Photograph: 89

Date: 5/24/2025

Location: Lyons, CO

Description:

Pipe size of location 158 is 2.5" Blue Grass Farms LLC

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 90

Date: 5/24/2025

Location: Lyons, CO

Description:

Pump at Festivaria LLC - this land connects to Bluegrass Farms LLC. Festivaria has three water rights:

Pump- point of diversion
Furguson Pump

<https://dwr.state.co.us/Tools/Structures/0501233>

Well- Steamboat WTR Co Well

<https://dwr.state.co.us/Tools/Structures/0505354>

Well- Williams Well

<https://dwr.state.co.us/Tools/Structures/0505625>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



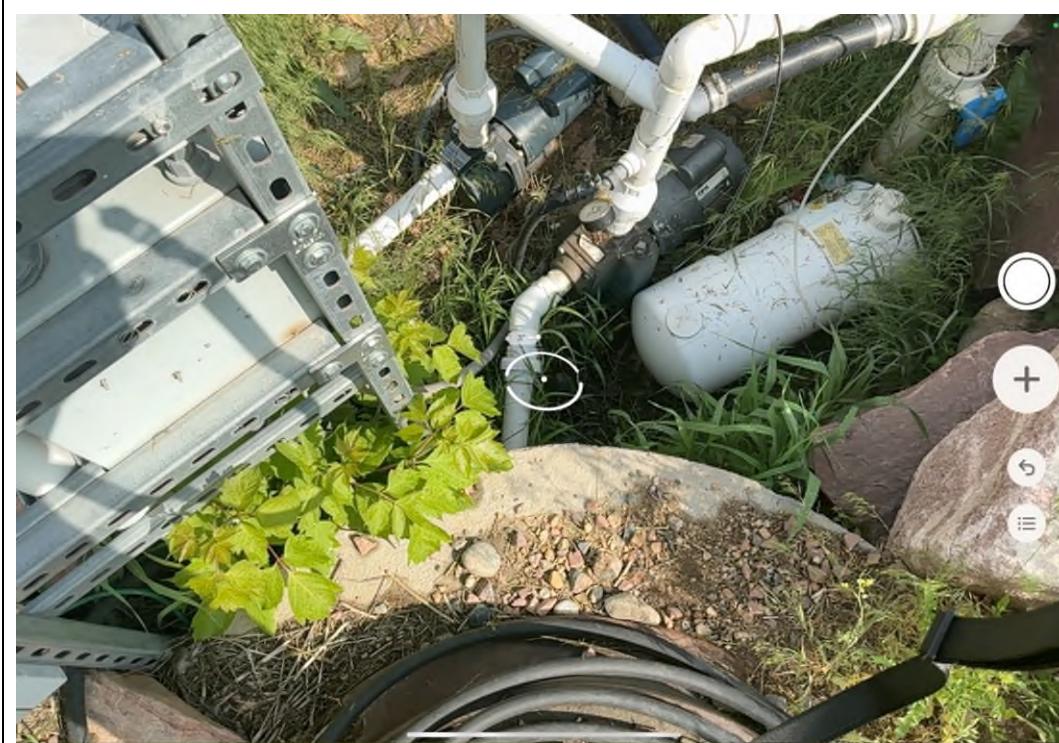
Photograph: 91

Date: 5/24/2025

Location: Lyons, CO

Description:

Second view of pump.
Festivaria LLC



Photograph: 92

Date: 5/24/2025

Location: Lyons, CO

Description:

Size of pipe is 3".
Festivaria LLC

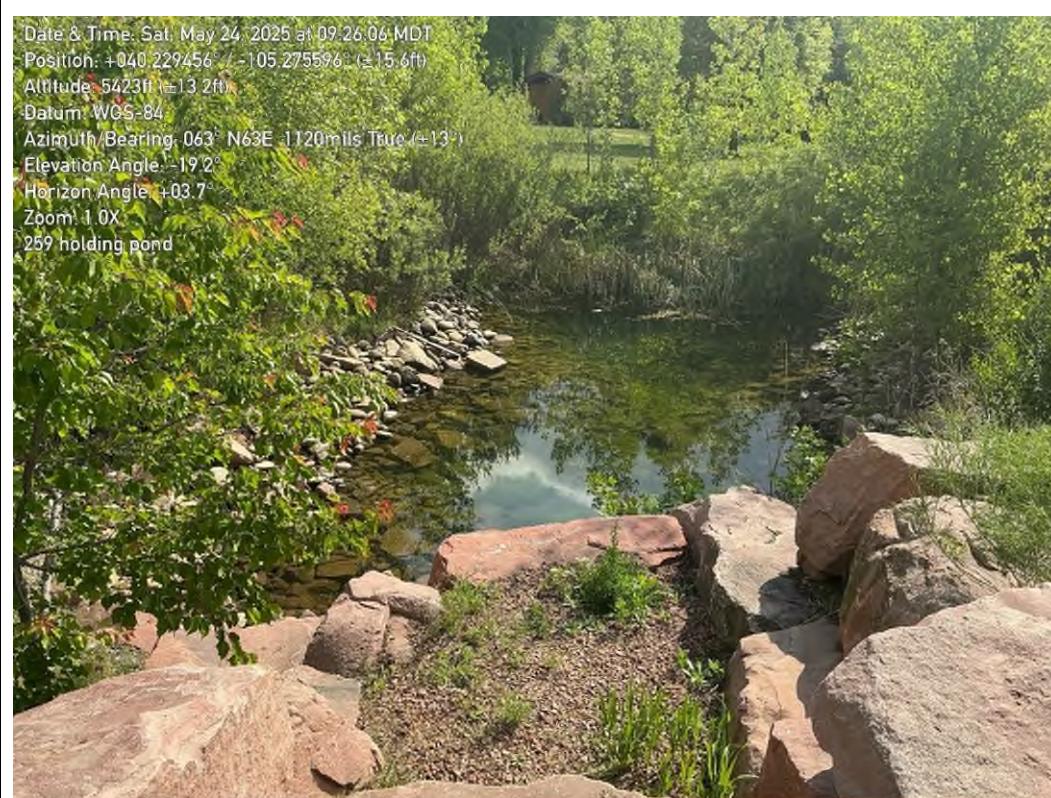
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 93

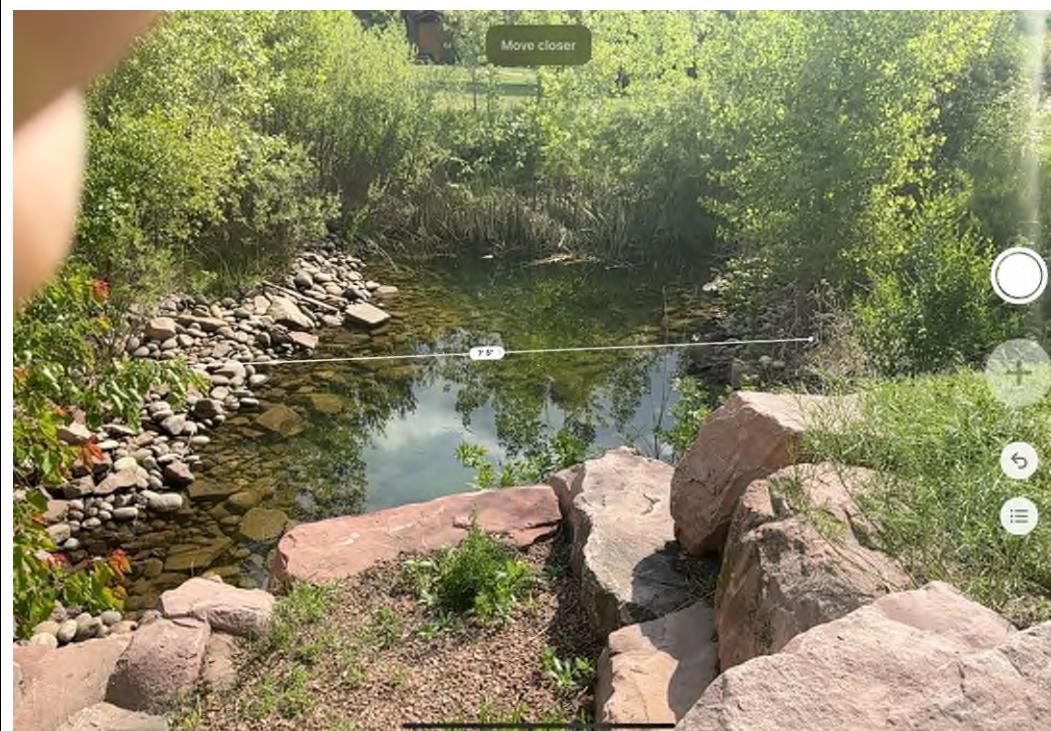
Date: 5/24/2025

Location: Lyons, CO

Description:

Holding pond by pump is approximately 7.5 ft. x 30 ft.

Festivaria LLC



Photograph: 94

Date: 5/24/2025

Location: Lyons, CO

Description:

Width of holding pond.

Festivaria LLC

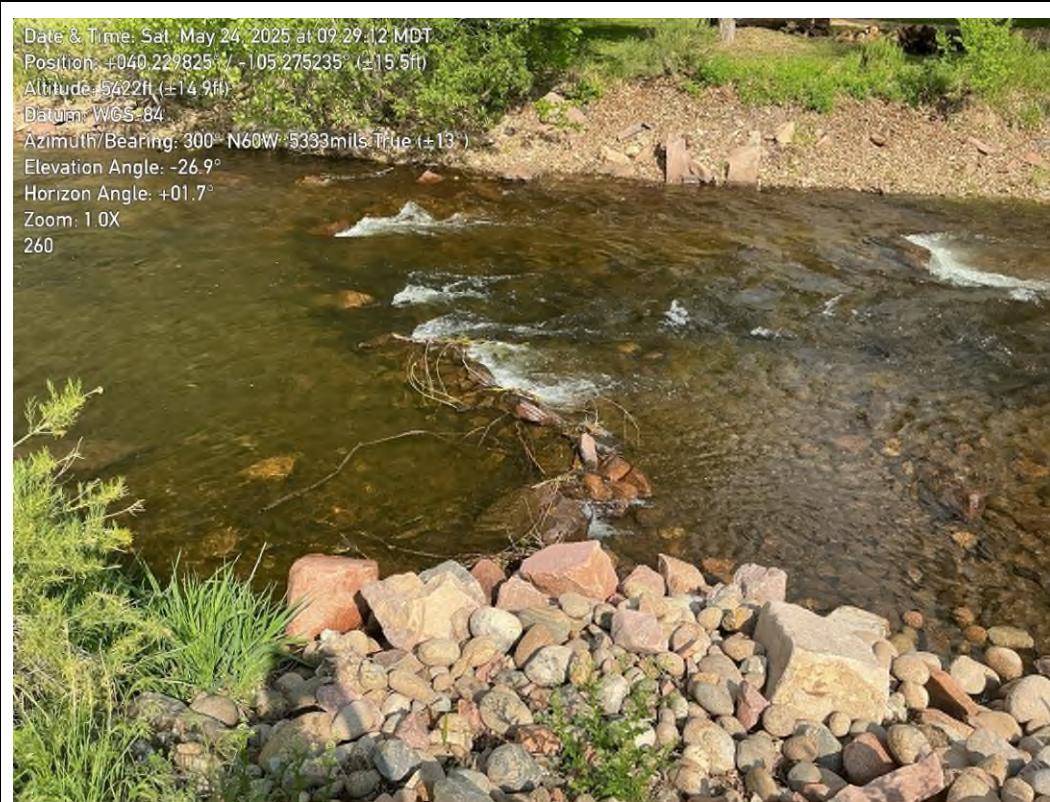
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 95

Date 5/24/2025

Location: Lyons, CO

Description:

Man made weir - appears to be for pumping. Photo Id Incorrect - #264

Festivaria LLC



Photograph: 96

Date: 5/24/2025

Location: Lyons, CO

Description:

Pipe by man-made weir.

Festivaria LLC

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 97

Date: 5/24/2025

Location: Lyons, CO

Description:

Size of pipe from 260 is 3".

Festivaria LLC



Photograph: 98

Date: 5/24/2025

Location: Lyons, CO

Description:

Man made pooling area.

Festivaria LLC

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

 <p>Date & Time: Sat, May 24, 2025 at 09:32:53 MDT Position: +040.230148° / -105.274703° (±50.9ft) Altitude: 5432ft (±39.5ft) Datum: WGS-84 Azimuth/Bearing: 309° N51W 5493mils True (±14°) Elevation Angle: -19.9° Horizon Angle: +02.9° Zoom: 1.0X 262.5' roughly</p>	<p>Photograph: 99 Date: 5/24/2025 Location: Lyons, CO Description: 5' Wiers - likely part of visitors. Not off stream diversion. Festivaria LLC</p>
 <p>Date & Time: Sat, May 24, 2025 at 09:36:25 MDT Position: +040.229909° / -105.274019° (±37.6ft) Altitude: 5435ft (±36.4ft) Datum: WGS-84 Azimuth/Bearing: 013° N13E 0231mils True (±13°) Elevation Angle: -19.6° Horizon Angle: +00.6° Zoom: 1.0X 102.5' roughly</p>	<p>Photograph: 100 Date: 5/24/2025 Location: Lyons, CO Description: More Weirs. Festivaria LLC</p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 101

Date: 5/24/2025

Location: Lyons, CO

Description:

Larger Weir.

Festivaria LLC



Photograph: 102

Date: 5/24/2025

Location: Lyons, CO

Description:

Weirs to slow water.

Festivaria LLC

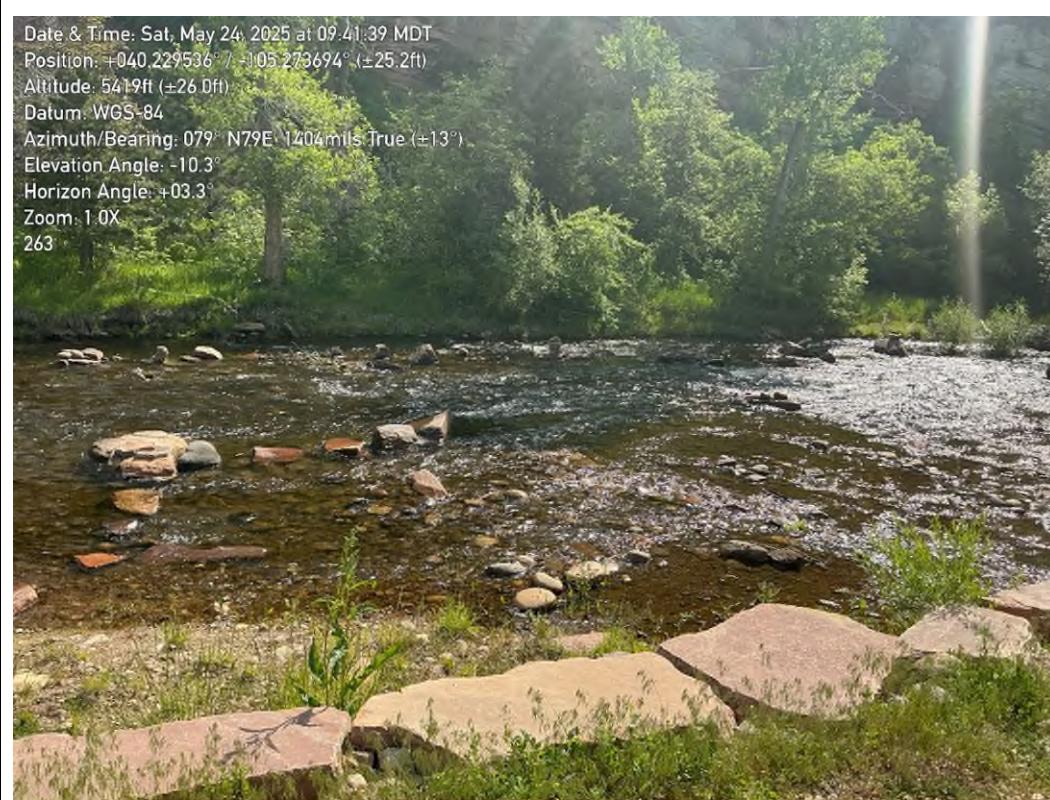
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 103

Date: 5/24/2025

Location: Lyons, CO

Description:

Weirs to slow water.

Festivaria LLC



Photograph: 104

Date: 5/24/2025

Location: Lyons, CO

Description:

Weirs to slow water.

Festivaria LLC

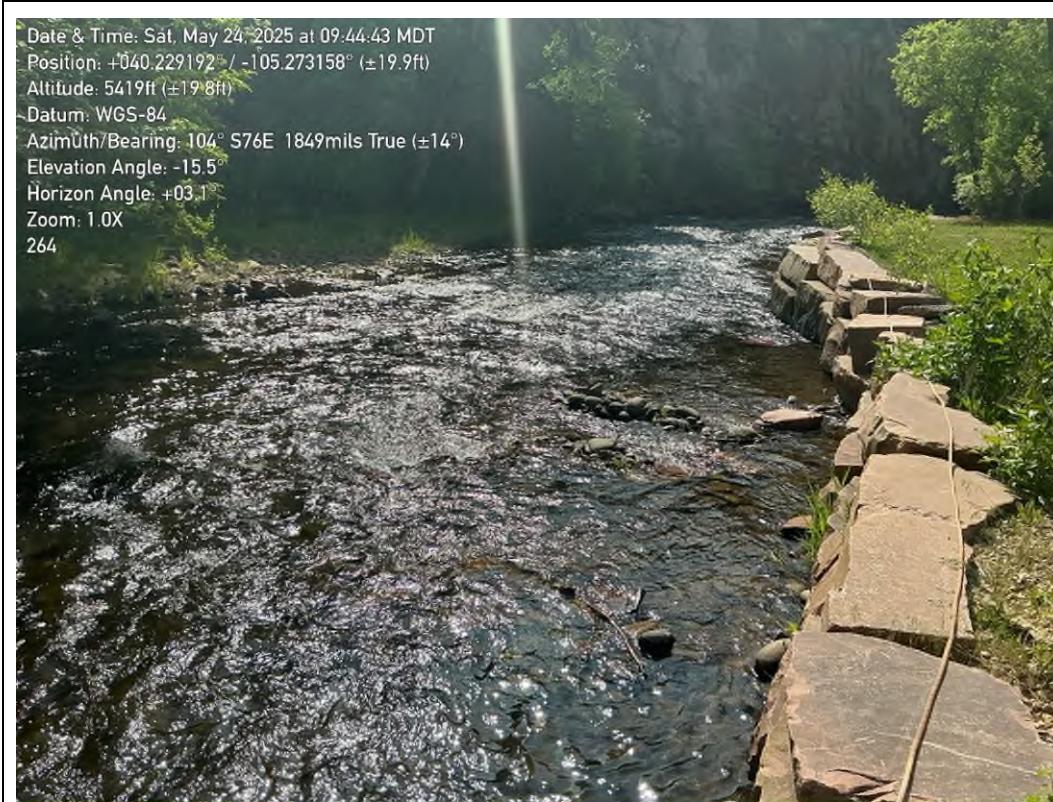
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 105

Date: 5/24/2025

Location: Lyons, CO

Description:

Additional Weir.
 Festivaria LLC



Photograph: 106

Date: 5/24/2025

Location: Lyons, CO

Description:

Additional Weir.
 Festivaria LLC

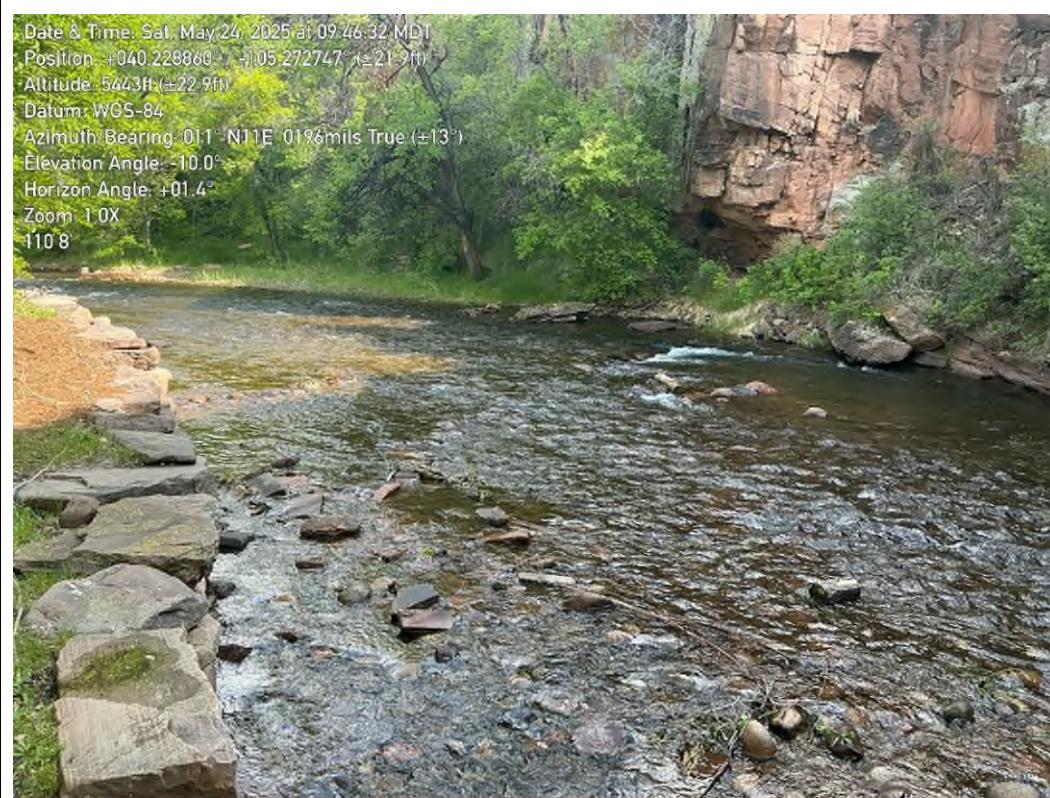
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 107

Date: 5/24/2025

Location: Lyons, CO

Description:

Additional Weir.
Festivaria LLC



Photograph: 108

Date: 5/24/2025

Location: Lyons, CO

Description:

Additional Weir.
Festivaria LLC

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 109

Date: 5/24/2025

Location: Lyons, CO

Description:

Beach area.

Festivaria LLC



Photograph: 110

Date: 5/24/2025

Location: Lyons, CO

Description:

Second view of the beach area.

Festivaria LLC

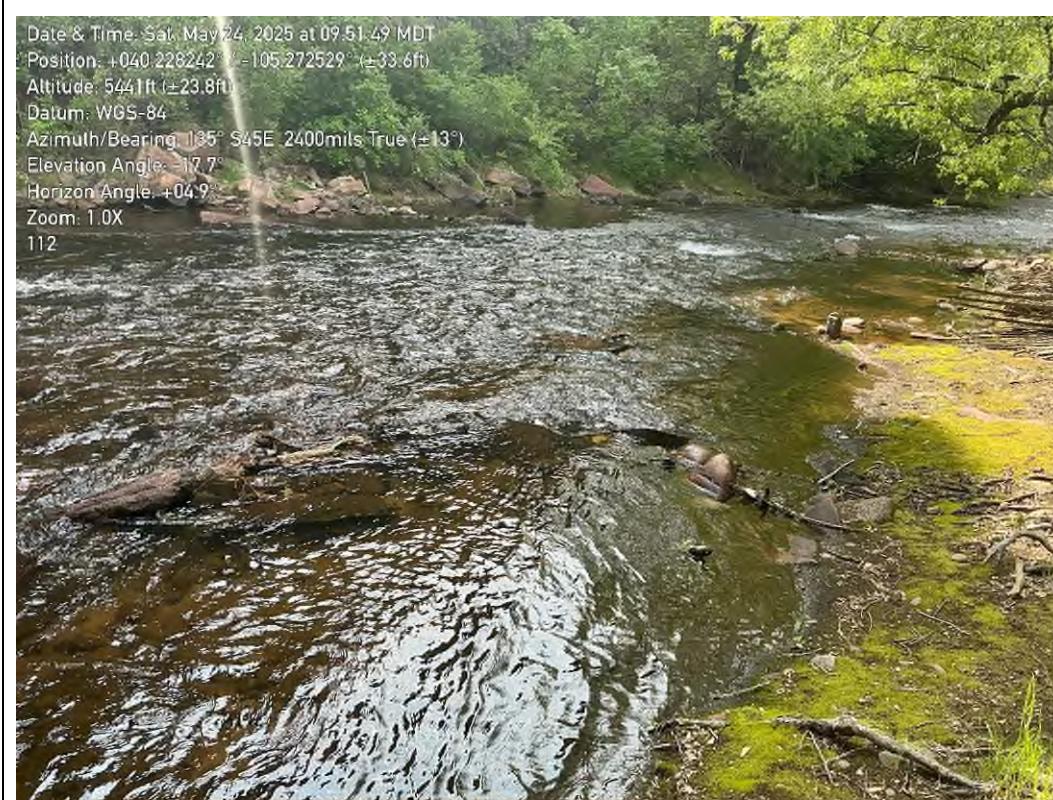
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 111

Date: 5/24/2025

Location: Lyons, CO

Description:

J-Hook shaped weir.
 Festivaria LLC



Photograph: 112

Date: 5/24/2025

Location: Lyons, CO

Description:

Additional Weirs.
 Festivaria LLC

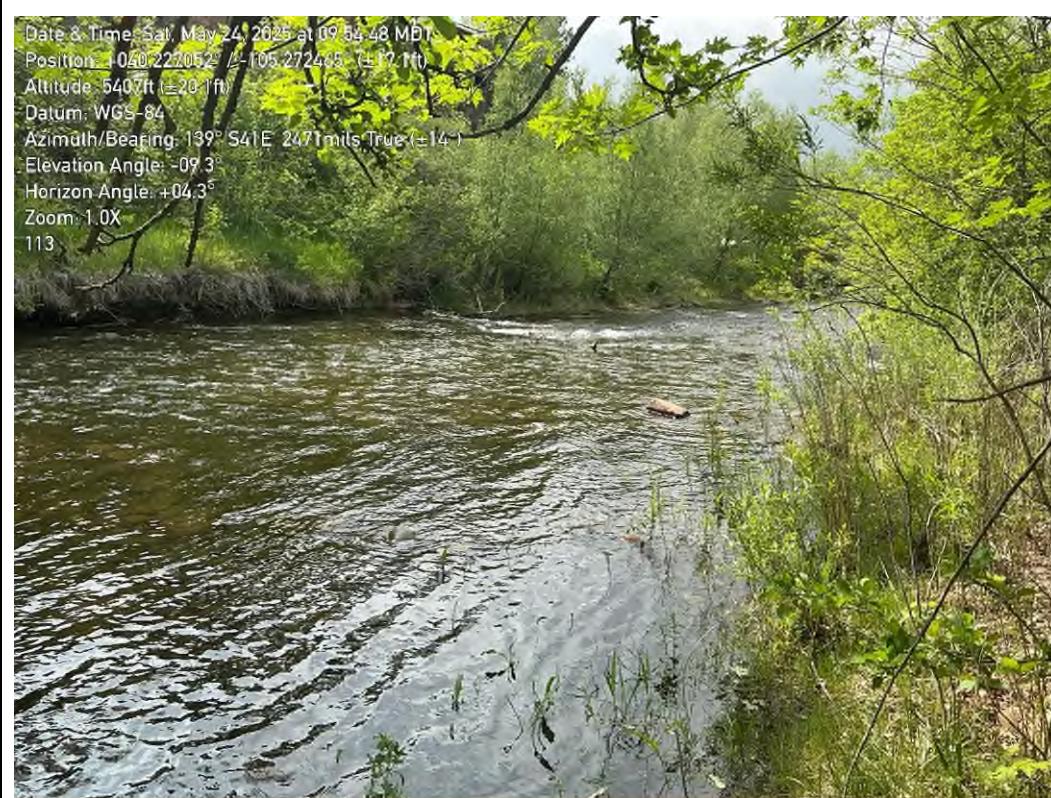
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 113

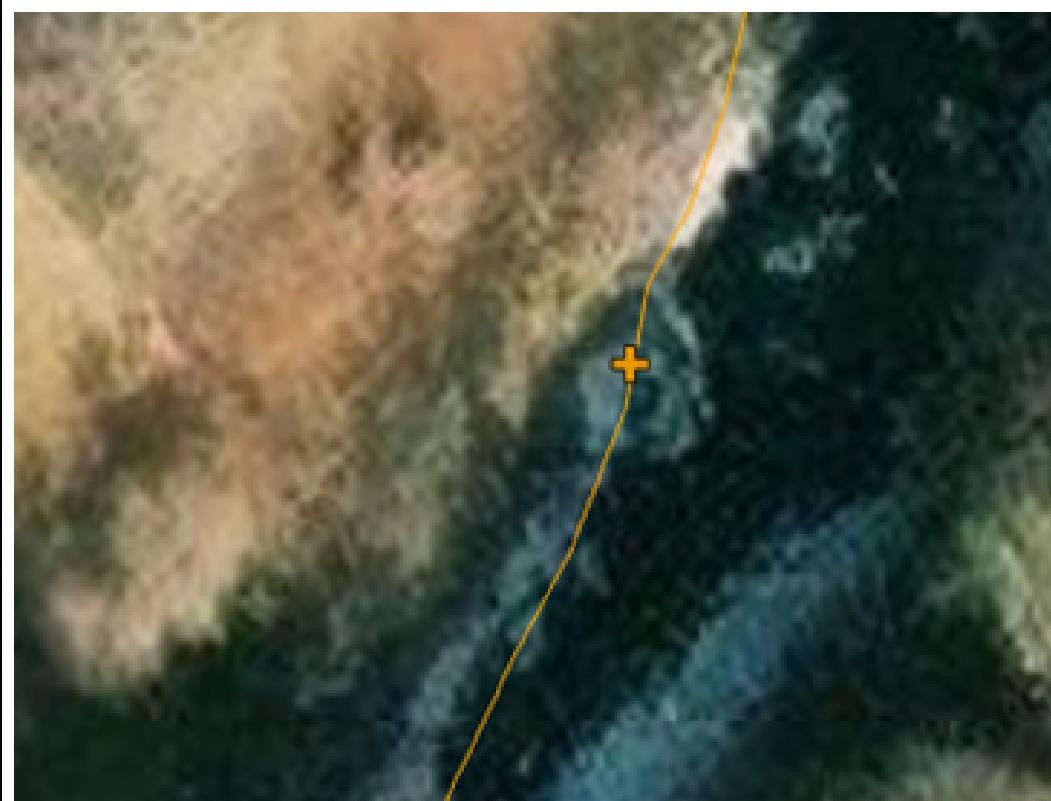
Date: 5/24/2025

Location: Lyons, CO

Description:

Natural - No Concerns.

Festivaria LLC



Photograph: 114

Date: 5/24/2025

Location: Lyons, CO

Description:

A small pool created approximately 6'x6'. No access granted and kids were in the pool. Visible from the road.

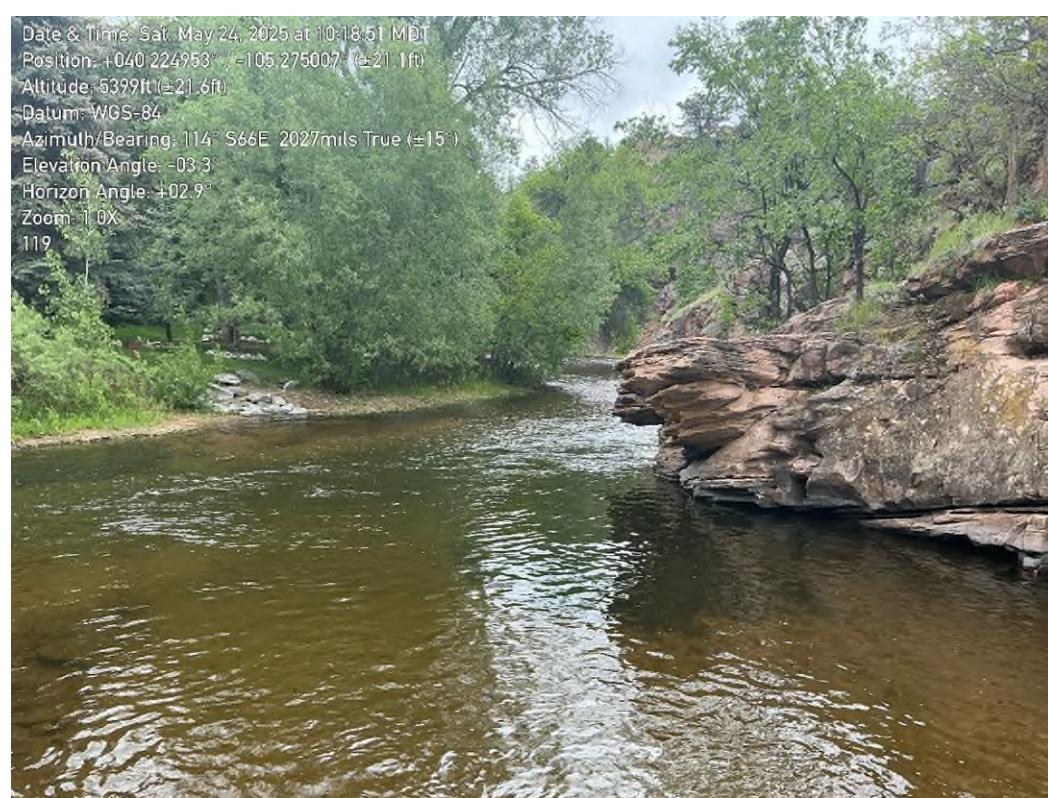
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



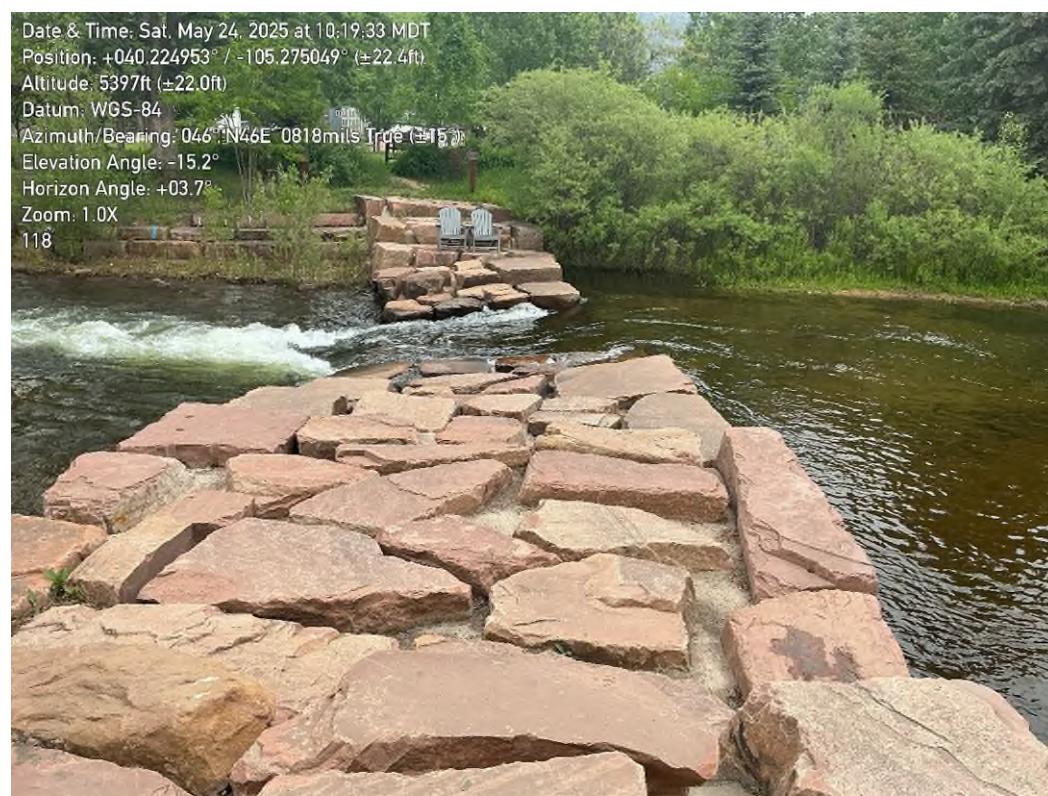
Photograph: 115

Date 5/24/2025

Location: Lyons, CO

Description:

Natural entry to Lyons Ditch.



Photograph: 116

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Ditch Weir.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 117

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons ditch diversion- 5 block stretch others may be pulling from -
No meter. No flow at the end of 5 blocks.



Photograph: 118

Date: 5/24/2025

Location: Lyons, CO

Description:

View 2 of Lyons Ditch.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



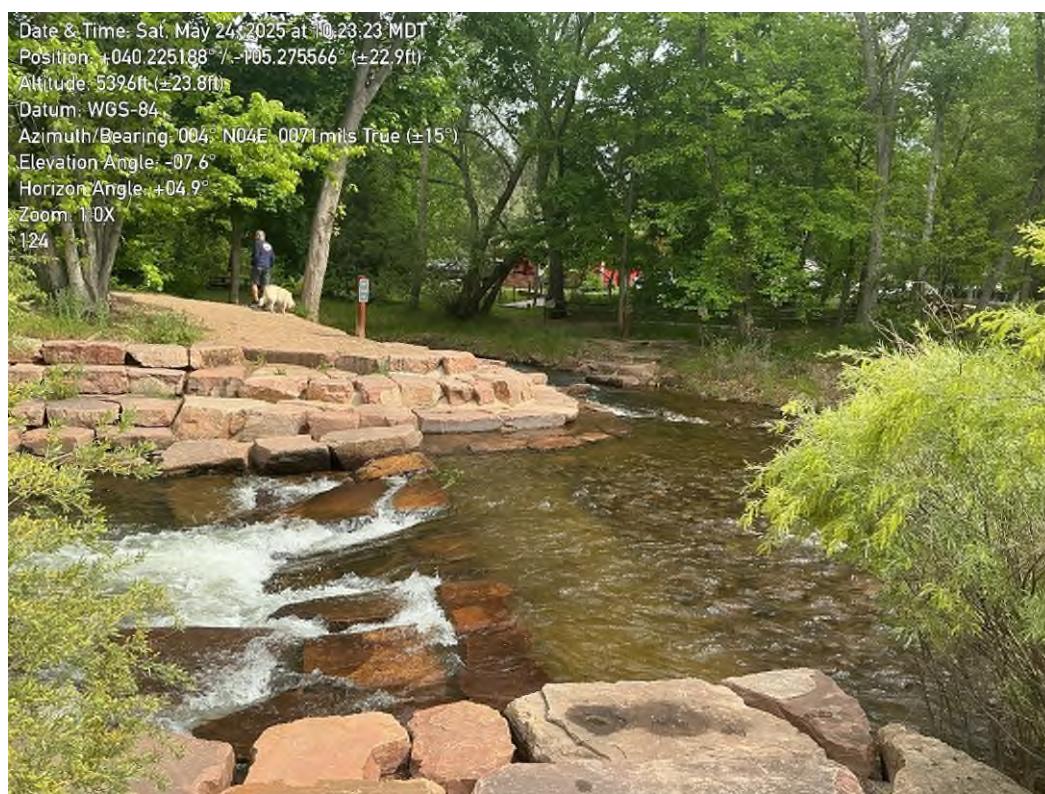
Photograph: 119

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 120

Date: 5/24/2025

Location: Lyons, CO

Description:

Split of river by park.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 121

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 122

Date: 5/24/2025

Location: Lyons, CO

Description:

Natural - No Concerns on split that goes around by neighbor and back to park.

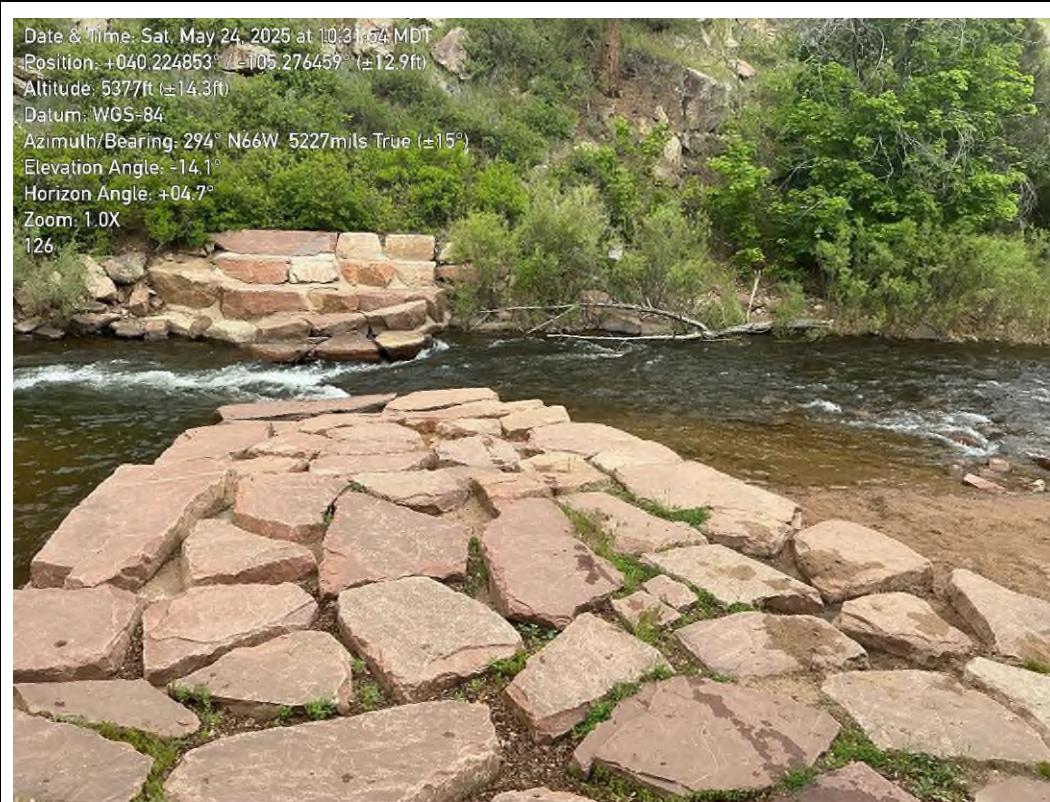
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 123

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 124

Date: 5/24/2025

Location: Lyons, CO

Description:

Partial return of City Diversion in park. **No meter.**

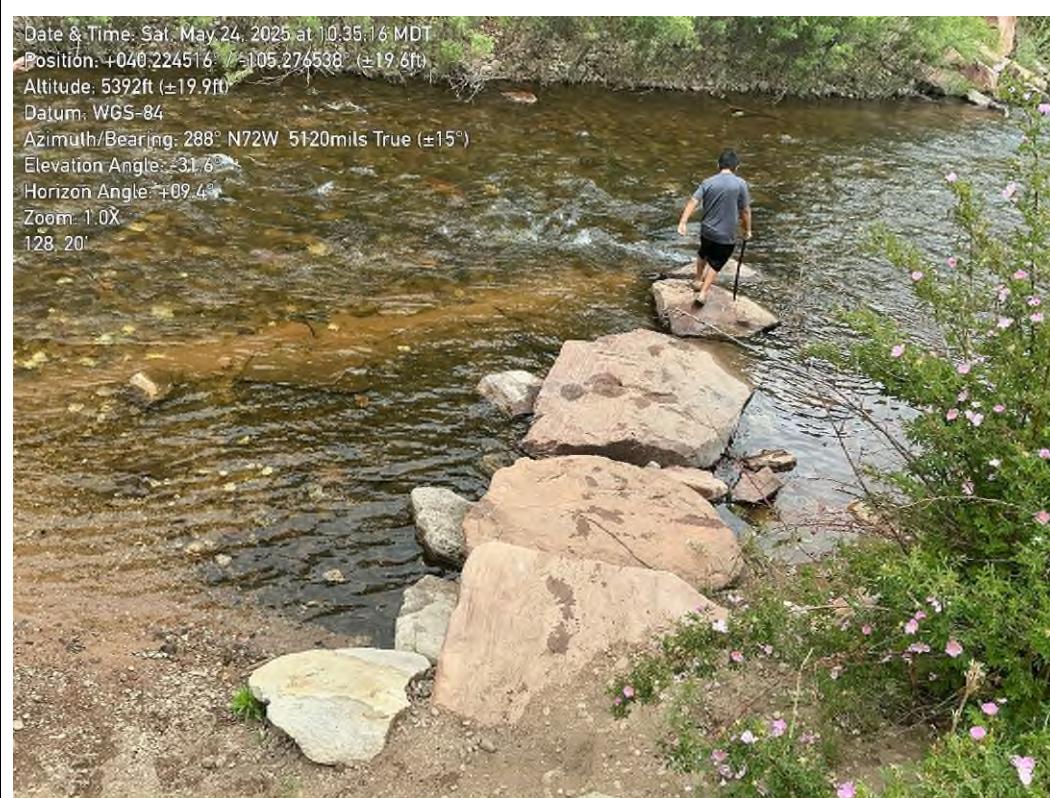
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 125

Date 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 126

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.

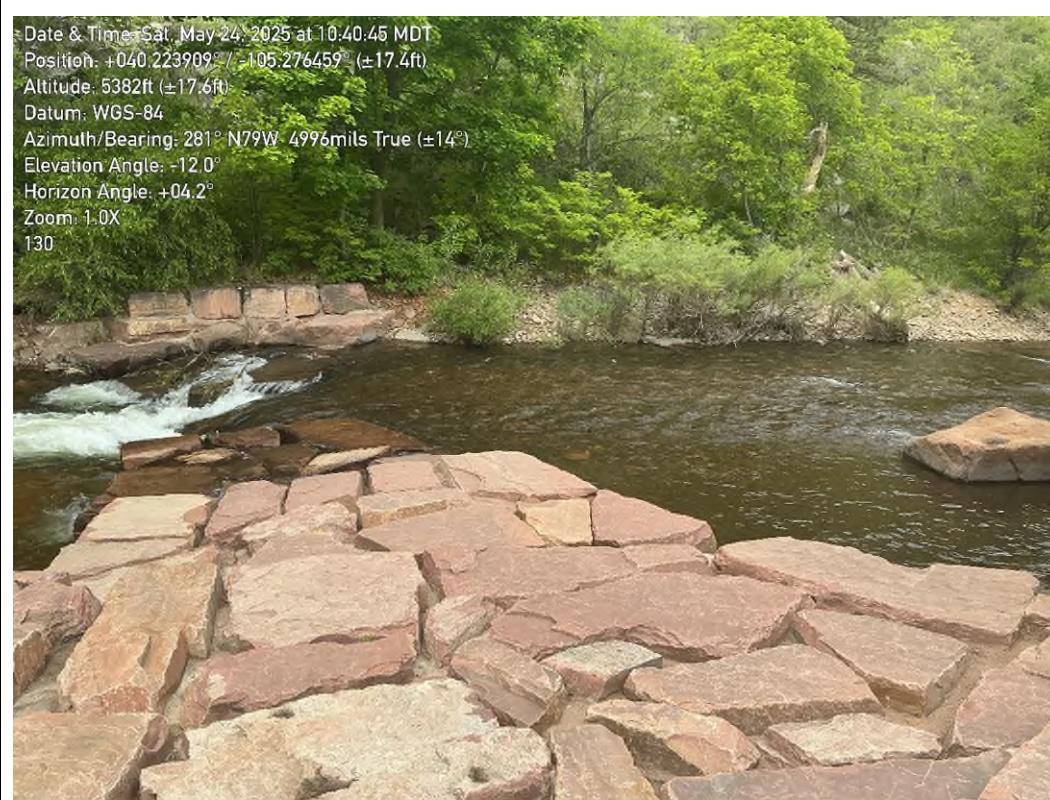
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



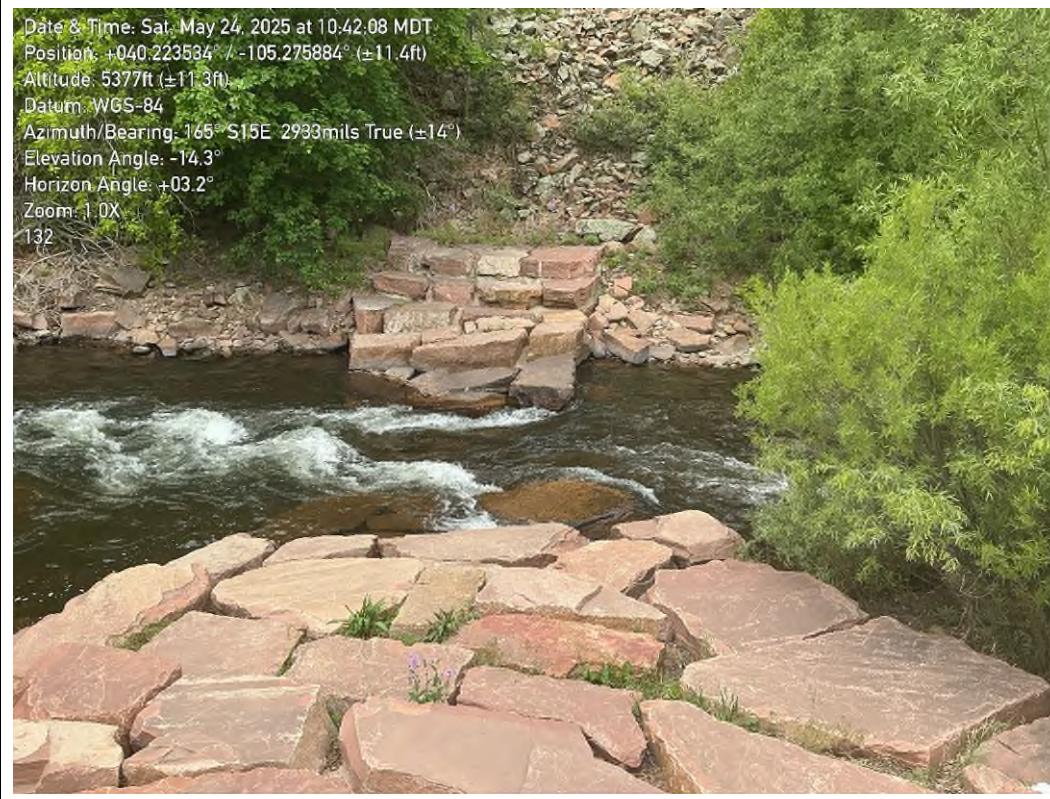
Photograph: 127

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 128

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 129

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.



Photograph: 130

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons Weir.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 10:46:28 MDT Position: +040.223115° / -105.274269° (±12.1ft) Altitude: 5383ft (±12.9ft) Datum: WGS-84 Azimuth/Bearing: 168° S12E 2987mils True (+14°) Elevation Angle: -07.9° Horizon Angle: +07.4° Zoom: 1.0X 138</p> 	<p>Photograph: 131 Date 5/24/2025 Location: Lyons, CO Description: Lyons Weir.</p>
<p>Date & Time: Sat, May 24, 2025 at 10:47:28 MDT Position: +040.222989° / -105.273936° (±24.8ft) Altitude: 5380ft (±26.5ft) Datum: WGS-84 Azimuth/Bearing: 194° S14W 3449mils True (+14°) Elevation Angle: -22.1° Horizon Angle: +04.2° Zoom: 1.0X 140</p> 	<p>Photograph: 132 Date: 5/24/2025 Location: Lyons, CO Description: Lyons Weir.</p>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 133

Date: 5/24/2025

Location: Lyons, CO

Description:

Natural - No Concerns



Photograph: 134

Date: 5/24/2025

Location: Lyons, CO

Description:

Natural - No Concerns

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

Date & Time: Sat, May 24, 2025 at 11:08:48 MDT
Position: 40° 22'57" N / 105° 26'78" W ± 10.0ft
Altitude: 5355ft ± 10.2ft
Datum: WGS 84
Azimuth/ Bearing: 080° N80E 1422mils True (+14°)
Elevation Angle: +12.1°
Horizon Angle: -00.9°
Zoom: 1.0X
193°



Photograph: 135

Date: 5/24/2025

Location: Lyons, CO

Description:

Irrigation System by river with a lot of pipes. These are located on the Town of Lyons Section 18 Township 3N Range 70 Block 20 Lot 10. A Thomas pump is associated with this water right- no meter observed. The neighbor who it appears to go to also has a water right associated.

<https://dwr.state.co.us/Tools/Structures/0501229>

&

<https://dwr.state.co.us/Tools/Structures/0501228>

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 136

Date: 5/24/2025

Location: Lyons, CO

Description:

More 2.5" pipe on Town of Lyons property.



Photograph: 137

Date: 5/24/2025

Location: Lyons, CO

Description:

Location 193 pipe size of 2.5"

PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 11:12:38 MDT Position: +040.220984° / -105.267510° ($\pm 30.2\text{ft}$) Altitude: 5350ft ($\pm 28.8\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 151° S 29' E 268° mils True ($\pm 1.8^\circ$) Elevation Angle: -00.1° Horizon Angle: +03.3° Zoom: 1.0X 267</p> 	<p>Photograph: 138 Date 5/24/2025 Location: Lyons, CO Description: Lyons Diversion.</p>
<p>Date & Time: Sat, May 24, 2025 at 11:14:55 MDT Position: +040.220906° / -105.267370° ($\pm 28.4\text{ft}$) Altitude: 5370ft ($\pm 16.6\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 128° S 52' E 227° mils True ($\pm 1.4^\circ$) Elevation Angle: -04.6° Horizon Angle: +00.9° Zoom: 1.0X 147</p> 	<p>Photograph: 139 Date: 5/24/2025 Location: Lyons, CO Description: Pump on neighbor that is next to Town of Lyons where the above 2.5" pipe was. Water right associated: https://dwr.state.co.us/Tools/Structures/0501228</p>

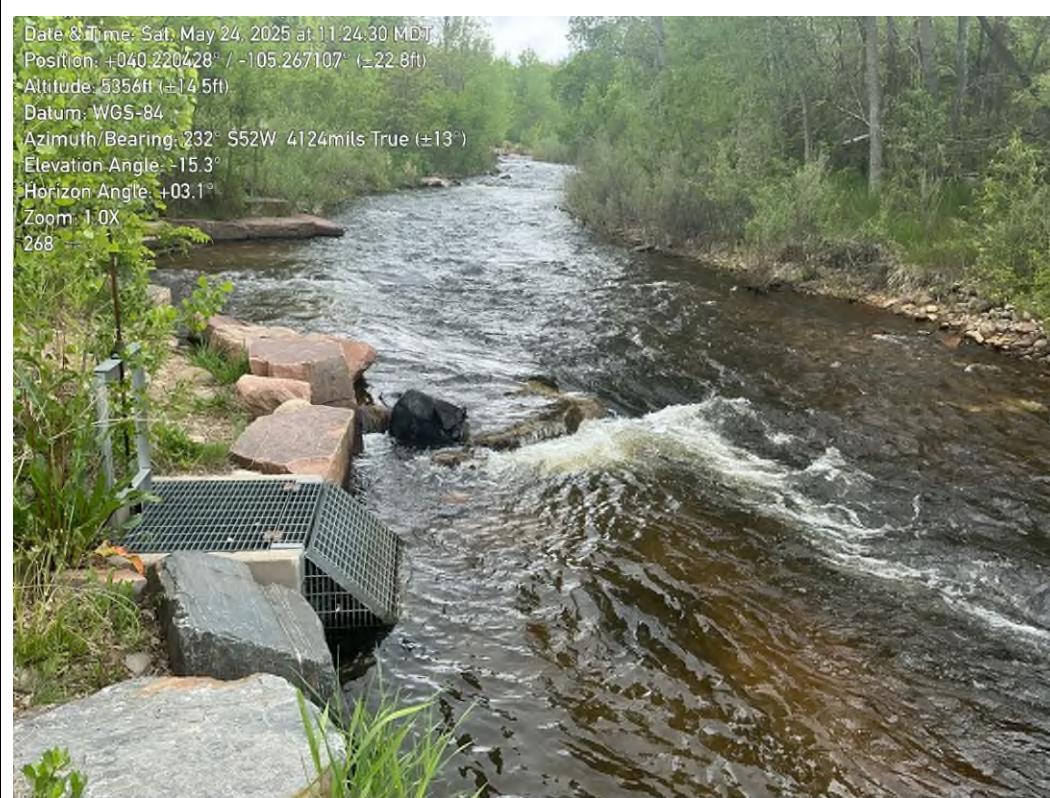
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 140

Date: 5/24/2025

Location: Lyons, CO

Description:

Unknown Diversion at Lyons Park #2.



Photograph: 141

Date 5/24/2025

Location: Lyons, CO

Description:

Confluence of Rivers.

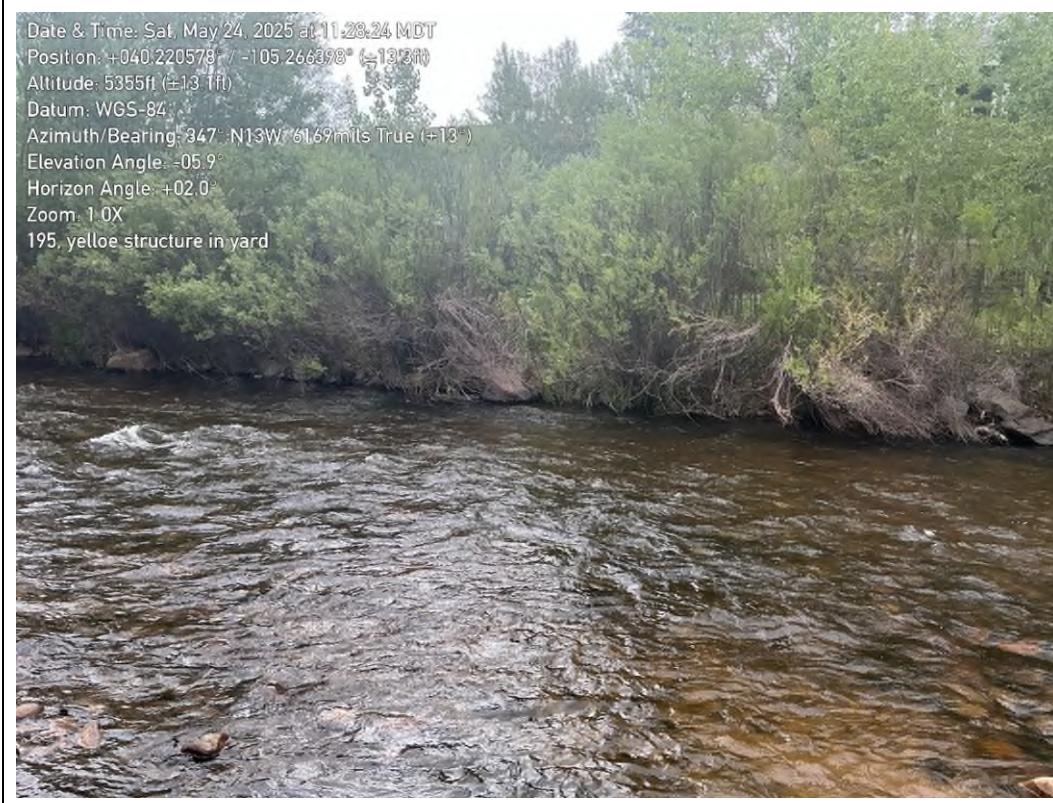
PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 142

Date: 5/24/2025

Location: Lyons, CO

Description:

No pump observed -
Appears to just be a
beach.

Photograph: 143

Date: 5/24/2025

Location: Lyons, CO

Description:

There appears to be a yellow pump in the yard & associated water rights.

<https://dwr.state.co.us/Tools/Structures/0501228>

<https://dwr.state.co.us/Tools/Structures/0502128>

<https://dwr.state.co.us/Tools/Structures/0502025>

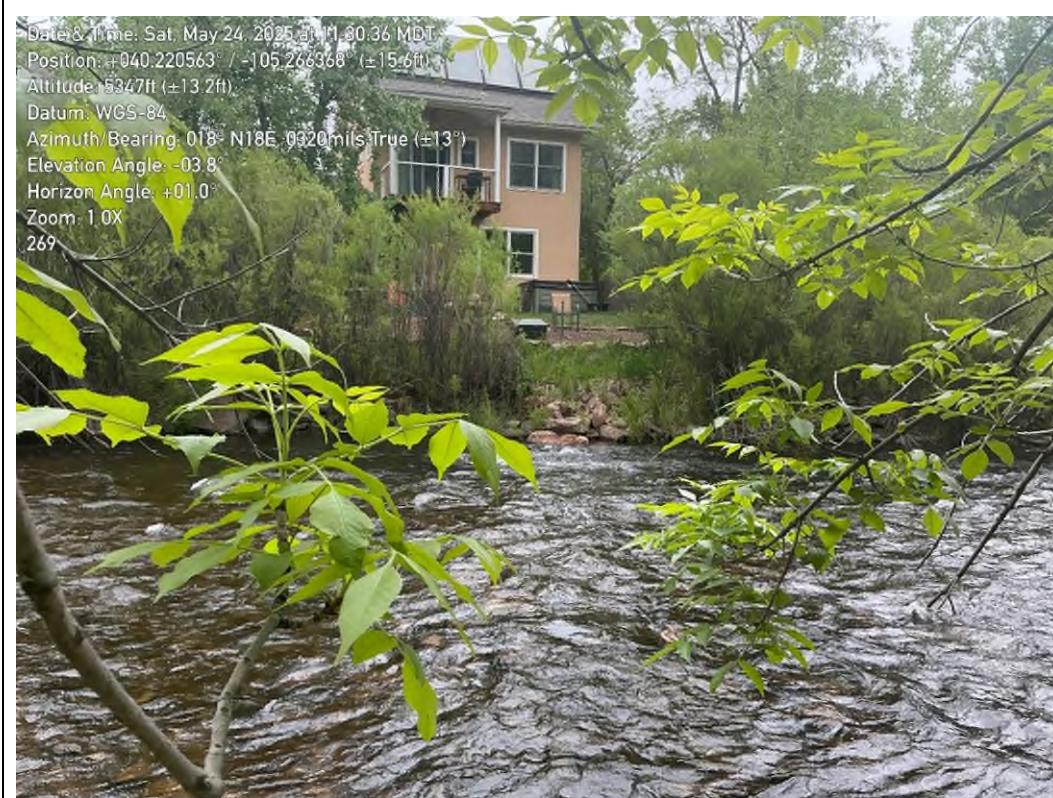
PHOTOGRAPH LOG



Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1

Photo Log #'s Are Sequential for Quick Reference



Photograph: 144

Date 5/24/2025

Location: Lyons, CO

Description:

Possible Pump in yard w/ river access. No water right association observed. No homeowner information available.



Photograph: 145

Date: 5/24/2025

Location: Lyons, CO

Description:

1" Black pipe in water - no water right observed.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 146

Date: 5/24/2025

Location: Lyons, CO

Description:

Possible old return.



Photograph: 147

Date: 5/24/2025

Location: Lyons, CO

Description:

Unsure of water use or diversion potential.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 11:37:06 MDT Position: +040.220328° / -105.265402° ($\pm 63.5\text{ft}$) Altitude: 5297ft ($\pm 63.7\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 356° N04W 6329mils True ($\pm 13^\circ$) Elevation Angle: -04.7° Horizon Angle: +00.7° Zoom: 1.0X 196, no flow</p> 	<p>Photograph: 148</p> <p>Date: 5/24/2025</p> <p>Location: Lyons, CO</p> <p>Description: Lyons Return. Associated water rights of who is pulling water is listed here. https://dwr.state.co.us/Tools/Structures/0500910</p> <p>No return was observed. It is unknown what is being diverted as well.</p>
<p>Date & Time: Sat, May 24, 2025 at 11:45:55 MDT Position: +040.220645° / -105.263527° ($\pm 28.6\text{ft}$) Altitude: 5362ft ($\pm 29.3\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 239° S59W 4249mils True ($\pm 14^\circ$) Elevation Angle: -12.3° Horizon Angle: +00.5° Zoom: 1.0X 151</p> 	<p>Photograph: 149</p> <p>Date: 5/24/2025</p> <p>Location: Lyons, CO</p> <p>Description: Lyons structures.</p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 150

Date 5/24/2025

Location: Lyons, CO

Description:

Lyons structures.



Photograph: 151

Date: 5/24/2025

Location: Lyons, CO

Description:

Beach area - no pump observed.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference

<p>Date & Time: Sat, May 24, 2025 at 11:51:53 MDT Position: +040.220125° / -105.262761° ($\pm 14.7\text{ft}$) Altitude: 5334ft ($\pm 15.3\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 117° S 63E 2080mils True ($\pm 14^\circ$) Elevation Angle: -08.6° Horizon Angle: +02.3° Zoom: 1.0X 157</p> 	<p>Photograph: 152 Date 5/24/2025 Location: Lyons, CO Description: Lyons structures.</p>
<p>Date & Time: Sat, May 24, 2025 at 12:06:09 MDT Position: +040.217344° / -105.260961° ($\pm 15.0\text{ft}$) Altitude: 5341ft ($\pm 14.6\text{ft}$) Datum: WGS-84 Azimuth/Bearing: 140° S 40E 2489mils True ($\pm 14^\circ$) Elevation Angle: -07.8° Horizon Angle: +01.8° Zoom: 1.0X 198</p> 	<p>Photograph: 153 Date: 5/24/2025 Location: Lyons, CO Description: Lyons holding pond.</p>

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 154

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons holding pond.



Photograph: 155

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons holding pond.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 156

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons holding pond.



Photograph: 157

Date: 5/24/2025

Location: Lyons, CO

Description:

Lyons holding pond.

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



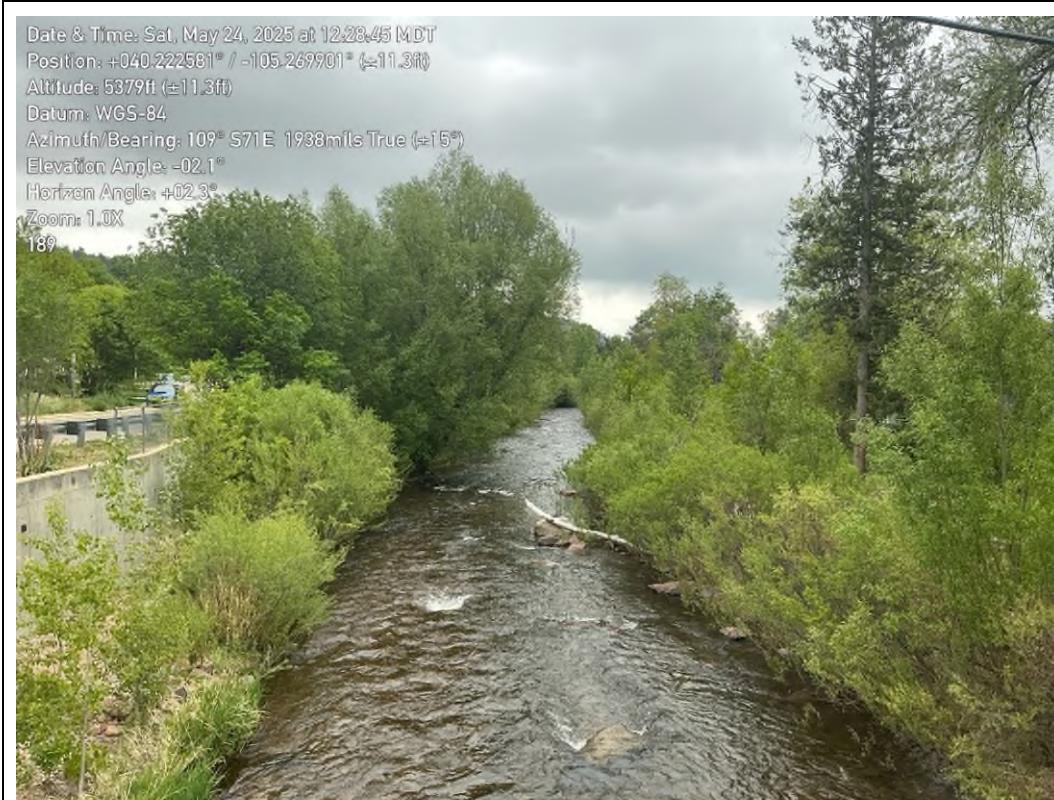
Photograph: 158

Date 5/24/2025

Location: Lyons, CO

Description:

Natural



Photograph: 159

Date: 5/24/2025

Location: Lyons, CO

Description:

Natural

PHOTOGRAPH LOG

Lyons, CO Stream Bypass Study

Field Photos #'s in Photo Correlate To Figure 1.1



Photo Log #'s Are Sequential for Quick Reference



Photograph: 160

Date: 5/23/2025

Location: Lyons, CO

Description:

Northern Water Release



Photograph: 161

Date: 5/23/2025

Location: Lyons, CO

Description:

Built in steps/release point.